



# Backshells from Amphenol PCD



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## Amphenol PCD

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# Amphenol

## Backshells

From Amphenol PCD

Amphenol holds the leadership position for providing interconnect solutions that meet almost all Military, Aerospace and Industrial standards in the U.S., Europe and Asia.

With design and manufacturing facilities and sales offices spread across the globe, Amphenol offers a vast product portfolio of connectors, cable assemblies and system integration for almost all applications across various industries.

### BACKSHELLS

Within Amphenol's wide range of interconnect products is a full range of backshell hardware. Customers can take advantage of Amphenol's global synergy for connectors, backshells and cable harnessing with one place for all their interconnect needs.

Plus, coming to Amphenol for a custom design of a backshell, means that customers benefit from the vast amount of experience this global company has in designing interconnect solutions.

This section covers the backshells that are provided through Amphenol PCD:

- Backshells for Connector Family "L", which includes MIL-DTL-38999 Series III and Series IV
- Backshells for Connector Family "K", which includes MIL-DTL-38999 Series II and Series I
- Backshells for Connector Family "J", which includes MIL-DTL-26482 (Series 2), MIL-DTL-5015 (Matrix MS345X), MIL-DTL-83723 (Matrix & Pyle Series III)



Amphenol . . We Connect the World Together



38999

|             |
|-------------|
| III         |
| HD          |
| Dualok      |
| II          |
| I           |
| SJT         |
| Accessories |
| Aquacon     |
| Herm/Seal   |
| PCB         |

|          |            |
|----------|------------|
| Fiber    | High Speed |
| Optics   |            |
| Contacts |            |

|            |           |
|------------|-----------|
| EMI Filter | Transient |
|------------|-----------|

|          |       |
|----------|-------|
| Matrix 2 | 26482 |
|----------|-------|

|               |       |
|---------------|-------|
| Matrix   Pyle | 83723 |
|---------------|-------|

|      |       |
|------|-------|
| Pyle | 26500 |
|------|-------|

|                           |      |
|---------------------------|------|
| Crimp Rear Release Matrix | 5015 |
|---------------------------|------|

|         |       |
|---------|-------|
| Class 1 | 22992 |
|---------|-------|

|       |        |
|-------|--------|
| Back- | Shells |
|-------|--------|

|         |        |
|---------|--------|
| Options | Others |
|---------|--------|

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

High Speed

Fiber Optics

Contacts

EMI Filter Transient

26482

Matrix 2

83723

III  
Matrix | Pyle

26500

Pyle

5015

Crimp Rear Release  
Matrix

22992

Class L

Back-Shells

Options Others

Amphenol Backshells are available in several different types, designed for optimum performance in the application or environment it will be used in. For example; in ground and naval applications the robustness and environmental sealing may be more important, where as weight may be the prime consideration for space and Aerospace application. The following overview explains the various families of Amphenol Backshells with its applications.

Some families of backshells shown here can be used without any additional protection. Some other types of backshells shown are generally used with heat shrink boots or similar protection/strain relief mechanism depending upon the specific requirements. Also, there are some clamps & nuts for the applications where varying degrees of strain reliefs and cable holding will suffice and weight saving is of higher importance.

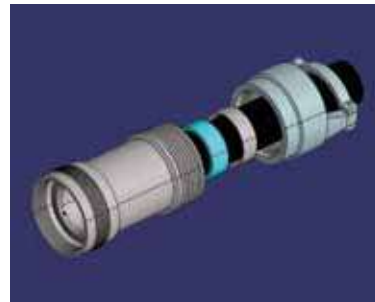
#### Non-Environmental Backshell

- Effective cable holding mechanism with good strain relief when the environmental protection of the cable termination area is not a concern. Amphenol offers cost-effective solutions by eliminating extra sealing parts.
- Suitable for an inside the box/climate controlled room application where heavy cabling should be supported with adequate strain relief.



#### Environmental Backshell

- Not only provide the cable support and strain relief, but ensure the cable sealing and environment protection by means of high quality sealing grommet and grommet follower. The strain relief nut is tightened squeezing the grommet onto the cable jacket during assembly.
- Provides 6 feet water sealing protection when used with perfectly jacketed cable, and suitable for harsh environment applications.



#### Non-Environmental EMI/RFI Backshell

- 360-degree screen termination facility, in addition to other features of the Non-Environmental type. Available in straight, 90 degree bent and 45 degree bent varieties.
- Accommodates both individual and overall shielding.



#### Environmental EMI/RFI Backshell

- Ideal choice for heavy duty cabling solutions in harsh environment situations where electromagnetic and radio frequency noises are to be isolated.
- Accommodates both individual and overall shielding.

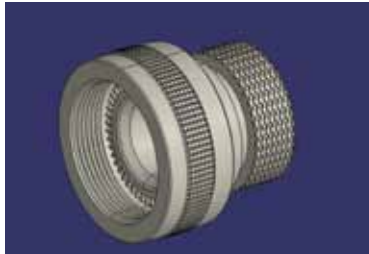


## Backshells

### Quick Reference of Products, cont.

#### Shrink Boot Adapter

- A good solution when the unshielded cables are terminated with heat shrink boots. It has a groove where the boot lip can be held which provides good grip apart from sufficient space inside for the cable looping.
- Using the heat shrink boot is one way of providing environmental protection and strain relief to cable termination. Using a suitable adapter is essential here to ensure the repairability.



#### Crimp Ring Adapter

- Many cable terminations where heat shrink boots are used will require provision for terminating the screens too. It is achieved in this type of backshell through a ring, which can be crimped to the backshell body holding the screens in between.



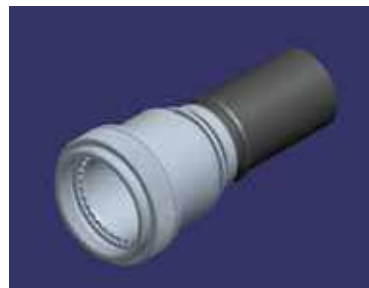
#### Band Lock Adapter

- Another method of termination of screens. A high quality band will do the job in this backshell. Tempered bands are tightened over the shields, which is pulled over the banding area, using a special assembly tool.
- Suitable over cover by heat shrink boot or some other method as chosen by the designer could be used.
- Both crimp ring and banded terminations give a low DC resistance.



#### Pre-Shield Adapter

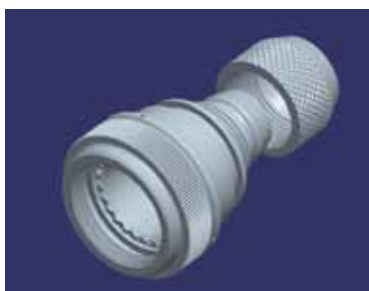
- Supplied with some length of braid attached. This braid overlaps with the cable braid.
- Effective shielding takes place due to the 360° contact of the braid.
- Designed to accept heat shrink boot.
- Ease of assembly saves time for cable termination.



#### SQ Adapter

- Another cost-effective way to terminate the braid to the adapter. The cost-effective braid is pulled over the conical shape to the rear end of the adapter and then tied. The end nut is tightened to ensure adequate grip for the shielding.
- A heat shrink boot can be used with this adapter also.

Note: The SQ adapter style is not covered in this catalog section; for more information go to [www.backshellworld.com](http://www.backshellworld.com)



38999

|             |
|-------------|
| III         |
| HD          |
| Dualok      |
| II          |
| I           |
| SJT         |
| Accessories |
| Aquacon     |
| Herm/Seal   |
| PCB         |

|        |            |
|--------|------------|
| Fiber  | High Speed |
| Optics | Contacts   |

|            |
|------------|
| EMI Filter |
| Transient  |

|          |       |
|----------|-------|
| Matrix 2 | 26482 |
|----------|-------|

|               |       |
|---------------|-------|
| Matrix   Pyle | 83723 |
| III           |       |

|      |       |
|------|-------|
| Pyle | 26500 |
|------|-------|

|                           |      |
|---------------------------|------|
| Crimp Rear Release Matrix | 5015 |
|---------------------------|------|

|         |       |
|---------|-------|
| Class 1 | 22992 |
|---------|-------|

|             |
|-------------|
| Back-Shells |
|-------------|

|                |
|----------------|
| Options Others |
|----------------|



38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

High Speed

Fiber Optics

Contacts

EMI Filter  
Transient

26482

Matrix 2

83723

III  
Matrix | Pyle

26500

Pyle

5015

Crimp Rear  
Release  
Matrix

22992

Class L

Back-  
Shells

Options  
Others

#### Quick Clamp

- A light weight clamp used for securing and “tidying up” cable into a desired direction.
- Used in interior wiring of aircraft.



#### Strain Relief Clamps

- Another cost effective cable holding option when environmental protection is not a concern, and weight savings is a major consideration.
- Secures and “tidys-up” the cable and also provides good strain relief at the termination area.



#### Grommet Nut

- Provides a good grommet-holding force for the crimp connectors when expensive and heavy backshells are not used. Such holding force is essential to hold the contacts and grommet in place when terminated with wire bundles.



#### Lamp Thread Adapter

- An adapter with threads similar to that in the lamp base for shield termination.
- An effective, easy and quick method of shield termination and field maintenance.
- Termination area can accept a nut as well as a clamp. The nut option enables the use of heat shrink boot and the clamp option will facilitate the strain relief clamping without heat shrink boot after the shield/cable termination.



Note: The lamp thread adapter style is not covered in this catalog section; for more information go to [www.backshellworld.com](http://www.backshellworld.com)

## Backshells

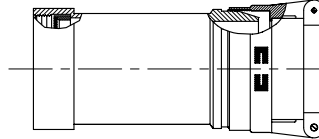
### Angle/Profiles and Coupling Styles

#### BACKSHELL ANGLE/PROFILES

Amphenol Backshells are available in three different angular profiles: straight, 90 degree and 45 degree. These profiles will meet most of the cable routing required in the inter-connect market. We can also make additional profiles if required. Please go to the web link <http://www.backshellworld.com/customdesign.asp> to contact Amphenol about your specific backshell needs.

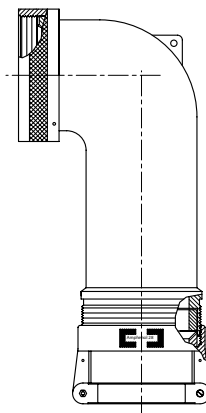
##### Straight Backshells

Straight Backshells are available in different length and cable entry diameter for most applications. Different cable and braid terminating systems are also available as shown in the respective product sections.



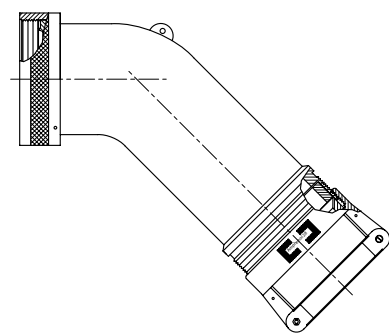
##### 90° Angled Backshells

Many applications require the cable to be bent and routed rather than straight routed. Amphenol offers a 90° angled style in all the Backshell families for space saving and convenience.



##### 45° Angled Backshells

Amphenol offers further design flexibility with a backshell that allows the cable to be routed 45° to the axis of the assembly.



#### BACKSHELL COUPLING STYLES

Various coupling styles are available for the coupling between the backshell and the connector. Popular styles are shown in the respective backshell sections, and custom profiles can be designed. Please go to the web link <http://www.backshellworld.com/customdesign.asp> to contact Amphenol about your specific backshell needs.

##### Spin Coupling

A captivated coupling nut within the backshell which provides the following advantages:

- Free rotation of the coupling nut which makes the assembly of the backshell to the connector easy without turning the entire backshell body.
- Lock wire holes are provided on the coupling nut to prevent accidental decoupling.



##### Self-Lock Coupling

Same as the Spin Coupling style with the additional feature of "self-locking". Internally locks the movement of the coupling nut so that accidental decoupling is prevented. Used in higher vibration conditions.



##### Direct Coupling

The coupling nut is eliminated in this design, and the backshell directly threads to the connector. For applications when simple direct connectivity is sufficient.



38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

Matrix 1 Pyle

83723

III

26500

Pyle

5015

Crimp Rear Release Matrix

22992

Class I

Back-

Shells

Options

Others

#### HOW TO SELECT A SUITABLE BACKSHELL

1. Based on the design and application considerations select the backshell type from the Quick Reference Guide, pages 479-482.
2. Review the Angle/Profiles and Coupling Styles on page 483 to determine the configuration which suits your application.
3. Scan the Connector Group Table on the next page to determine the Group Code (K, L or J) of the connector for which you require the backshell.
  - Backshells for Connector Family “L”, which includes MIL-DTL-38999 Series III and Series IV
  - Backshells for Connector Family “K”, which includes MIL-DTL-38999 Series II and Series I
  - Backshells for Connector Family “J”, which includes MIL-DTL-26482 (Series 2), MIL-DTL-5015 (Matrix MS345X), MIL-DTL-83723 (Matrix & Pyle Series III)
4. Go to the Backshell style pages within the connector family of your choice (K, L or J). Find the backshell style you need in the appropriate connector group section based on your choice of angle/profile and coupling style.
5. Build a part number from the sample part number on each backshell style page. For the material and finish options, you will need to turn to page 486 and review Table-2.

Selecting a Backshell can also be done from our web link:

<http://www.backshellworld.com/backshelldesigner.asp>

#### CROSS-REFERENCE TO OTHER MANUFACTURER'S BACKSHELLS

If you have a Military part number or other manufacturer's part number for which you are looking for an equivalent item, we have provided a cross-reference on our web link:

<http://www.backshellworld.com/crossreference.aspx>

#### CUSTOM BUILT BACKSHELLS

Backshells for Military & Aerospace applications are governed by SAE, AS85049 standard and Amphenol Backshells are designed to meet the requirement of this standard. Though this standard covers the most popular styles of backshells, many applications call for additional styles and designs. Here is where the capability of Amphenol can support you from the concept to product realization and thereby your unique specification need is satisfied. Please visit our web link for further help:

<http://www.backshellworld.com/customdesign.asp>

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III

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PCB

High Speed

Fiber Optics

Contacts

EMI Filter Transient

26482

Matrix 2

83723

III

Matrix | Pyle

26500

Pyle

5015

Crimp Rear Release Matrix

22992

Class L

Back-Shells

Options Others

## Backshells

### Tables - By Connector Groups

By Specification (TABLE-1A)

| Connector Specification | Series/Class | Connector Group Code |
|-------------------------|--------------|----------------------|
| 40M38277                |              | K                    |
| 40M39569                |              | J                    |
| BS9520                  | G0001        | K                    |
| BS9520                  | G0002        | K                    |
| BS9520                  | G0003        | L                    |
| BS9522 F0001            | Patt 602     | J                    |
| BS9522 F0012            | Patt 615     | M*                   |
| BS9522 F0017            | Patt 105     | N*                   |
| BS9522 F0020            | Patt 608     | N*                   |
| BS9522 F0029            | Patt 616     | K                    |
| BS9522 F0042            |              | J                    |
| BS9522 N0001            | Patt 603     | N*                   |
| BS9522 N0003            | Patt 614     | K                    |
| CECC 75201.001          |              | J                    |
| CECC 75201.002          |              | L                    |
| DEF 5326-3              |              | J                    |
| EN 2997                 |              | J                    |
| EN 3645                 |              | L                    |
| EN 3646                 |              | J                    |
| EN3372                  |              | M*                   |
| ESC 10                  |              | J                    |
| ESC11                   |              | J                    |
| JN1003                  |              | M*                   |
| LN 29504                |              | J                    |
| LN 29728                |              | J                    |
| LN29729                 |              | M*                   |
| MIL-C-81703             | 3            | J                    |
| MIL-DTL-26482           | 2            | J                    |
| MIL-DTL-38999           | I            | K                    |
| MIL-DTL-38999           | II           | K                    |
| MIL-DTL-38999           | III          | L                    |
| MIL-DTL-38999           | IV           | L                    |
| MIL-DTL-5015            | MS340        | J                    |
| MIL-DTL-5015            | MS345        | J                    |
| MIL-DTL-83723           | I            | J                    |
| MIL-DTL-83723           | III          | J                    |
| NAS 1599                |              | J                    |
| NFC93422                | HE302        | J                    |
| NFC93422                | HE306        | M*                   |
| NFC93422                | HE308        | K                    |
| NFC93422                | HE309        | K                    |
| NFL 54140               |              | J                    |
| PAN 6432-1              |              | J                    |
| PAN 6432-2              |              | J                    |
| PAN 6433-1              |              | K                    |
| PAN6433-2               |              | M*                   |
| VG 96912                | 2            | K                    |
| VG 96912                | 1            | M*                   |

By Manufacturer (TABLE-1D)

| Amphenol/Bendix/Socapex/Pyle Part Number Prefix | Connector Group Code |
|-------------------------------------------------|----------------------|
| 10-475                                          | K                    |
| 118                                             | J                    |
| 162GB                                           | N*                   |
| 418-1                                           | K                    |
| 418-2                                           | K                    |
| 418-5                                           | M*                   |
| 486                                             | J                    |
| 518                                             | J                    |
| 602GB                                           | J                    |
| 62GB                                            | N*                   |
| 652                                             | J                    |
| 711                                             | J                    |
| 801                                             | J                    |
| 91-483                                          | J                    |
| 944                                             | J                    |
| B                                               | J                    |
| BE                                              | J                    |
| BT                                              | J                    |
| BY1                                             | J                    |
| EA                                              | J                    |
| EB                                              | J                    |
| EEG                                             | J                    |
| ES                                              | J                    |
| ET                                              | J                    |
| JT                                              | K                    |
| LJT                                             | K                    |
| LS                                              | J                    |
| MB1                                             | J                    |
| MB3                                             | J                    |
| MB9                                             | K                    |
| MD                                              | J                    |
| ML94                                            | L                    |
| MQ3                                             | J                    |
| MT3                                             | J                    |
| MT93                                            | L                    |
| PTS-DR                                          | J                    |
| SJT                                             | M*                   |
| T3                                              | L                    |
| TV                                              | L                    |
| TVRB                                            | L                    |
| TVS                                             | L                    |

\* Connector Groups M and N are not included in this catalog section. For more information go to [backshellworld.com](http://backshellworld.com).

38999

|             |
|-------------|
| III         |
| HD          |
| Dualok      |
| II          |
| I           |
| SJT         |
| Accessories |
| Aquacon     |
| Herm/Seal   |
| PCB         |

|              |            |
|--------------|------------|
| Fiber Optics | High Speed |
| Contacts     |            |

|            |
|------------|
| EMI Filter |
| Transient  |

|          |
|----------|
| Matrix 2 |
| 26482    |

|               |
|---------------|
| Matrix I Pyle |
| 83723         |
| III           |

|       |
|-------|
| Pyle  |
| 26500 |

|                    |
|--------------------|
| Matrix             |
| 5015               |
| Crimp Rear Release |

|         |
|---------|
| Class I |
| 22992   |

|        |
|--------|
| Back-  |
| Shells |

|         |
|---------|
| Options |
| Others  |



38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

High Speed  
Fiber Optics  
Contacts

EMI Filter  
Transient

26482  
Matrix 2

83723  
III  
Matrix | Pyle

26500  
Pyle

5015  
Crimp Rear  
Release  
Matrix

22992  
Class L

Back-  
Shells

Options  
Others

#### MATERIALS & FINISHES

Amphenol offers adapters in the following standard finishes. The base material is aluminum alloy.

#### MATERIAL:

Aluminum parts: As per ASTM B 211, 221, 209, 85, 26  
Steel parts: 300 series, as per AMS-QQ-S-763/ASTM A 582  
Elastomers: Fluro Silcon, Silicon  
Other parts: Suitable corrosion resistant material

#### MIL (QPL) QUALIFICATION

Many Amphenol Backshells are qualified to SAE-AS 85049 standard. (Old standard is MIL-C-85049).

TABLE-2 (PLATING FINISHES)

| Amphenol Designation | MIL Designation | Finish                                      | Guiding Specifications/Requirements                                              |
|----------------------|-----------------|---------------------------------------------|----------------------------------------------------------------------------------|
| A                    | A               | Anodize, Black*                             | To meet AS85049 requirements                                                     |
| B                    |                 | Anodize, Hard*                              | AMS-A-8625, Type-III, Class-1                                                    |
| L                    |                 | Nickel, Bright                              | AMS-QQ-290, Class-1, Grade-F                                                     |
| M                    |                 | Electroless Nickel                          | AMS-C-26074, Class-4, Grade-B                                                    |
| N                    | N               | Electroless Nickel                          | To meet AS85049 requirements                                                     |
| T                    |                 | Cadmium, Bright                             | AMS-QQ-P-416, Type-I, Class-2                                                    |
| U                    |                 | Cadmium, Olive drab                         | AMS-QQ-P-416, Type II, Class 3                                                   |
| V                    |                 | Cadmium, Olive drab over Electroless Nickel | AMS-QQ-P-416, Type-II, Class-3 (Cadmium); AMS-C-26074, Class-4, grade-B (Nickel) |
| W                    | W               | Cadmium, Olive drab over Electroless Nickel | To meet AS85049 requirements                                                     |
| Y                    |                 | Zinc-Cobalt, Dark Olive drab                | ASTM-B840                                                                        |
| Z                    |                 | Zinc-Cobalt, Black                          | ASTM-B840                                                                        |

For availability of other finishes, email your special requirements: email: sales@backshellworld.com

\* Non conductive coatings.

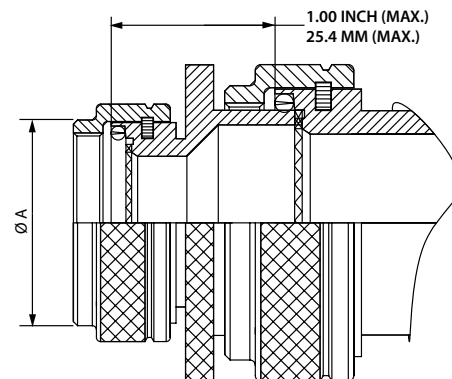
#### ASSEMBLY TORQUE VALUES

Amphenol recommends the following torque values for its adapters while assembling them to the connectors. These values are based on the coupling thread strength specified in SAE-AS85049 standard.

| Connector Shell Size | Torque (Inch-Pounds) |
|----------------------|----------------------|
| 8, 9                 | 40                   |
| 3, 10, 10SL, 11      | 40                   |
| 7, 12, 12S, 13       | 40                   |
| 14, 14S, 15          | 40                   |
| 16, 16S, 17          | 40                   |
| 18, 19, 27           | 40                   |
| 20, 21, 37           | 80                   |
| 22, 23               | 80                   |
| 24, 25, 61           | 80                   |
| 28                   | 100                  |
| 32                   | 100                  |
| 36                   | 100                  |
| 40                   | 120                  |
| 44                   | 120                  |
| 48                   | 120                  |

#### STYLE-2 CONFIGURATION

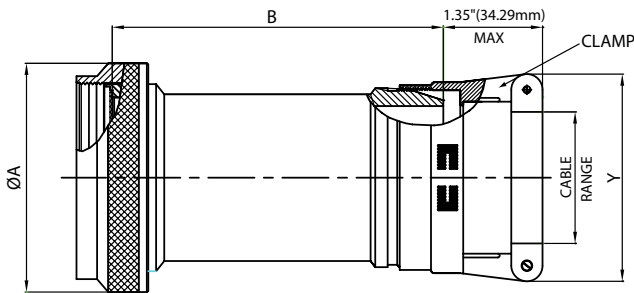
Some design consideration will require bigger diameter cable to be terminated in the smaller shell size connectors. Cable with heavy/thicker shielding, many wires for different branches/routing are some of the examples. Such cable termination will require a bigger adapter body with cable entry dimensions more than the connector rear side dimensions Amphenol also supports this kind of application. The coupling end of the adapter will be modified to Style-2 design as shown in the figure below in such cases. The overall length of the Style-2 design adapters would be increased by approx. 1 inch (25.mm) as shown. This alternative design is applicable for all the Backshell Families listed in this catalog.



Non-Environmental Backshell  
Straight, Spin Coupling

For Connector Family L

**38999 Series III, IV** Connector Family “L”, includes MIL-DTL-38999 Series III and Series IV



**MIL Part Number**  
**M85049 / 21 11 W 03 A**

MIL Series: M85049 / 21  
Slash Sheet: 21: Straight, Spin Coupling  
Shell Size: 11  
Length: 11  
W: W  
03: 03  
A: A

Length: See Table-A (Omit for “STD”)  
Clamp Size: See Table-A  
Finish: See Table- 2 (pg. 486)

| TABLE – A                  |            |        |                                   |             |       |      |       |              |       |         |       |         |       |
|----------------------------|------------|--------|-----------------------------------|-------------|-------|------|-------|--------------|-------|---------|-------|---------|-------|
| MIL PART NUMBER DESIGNATOR |            |        | CONNECTOR SHELL SIZE/ CODE (REF.) | CABLE RANGE |       |      |       | A DIA. (MAX) |       | B (MAX) |       | Y (MAX) |       |
| CONNECTOR SHELL SIZE       | CLAMP SIZE | LENGTH |                                   | MIN         |       | MAX  |       | INCH         | MM    | INCH    | MM    | INCH    | MM    |
|                            |            |        |                                   | INCH        | MM    | INCH | MM    |              |       |         |       |         |       |
| 9                          | 01         | STD.   | 09 / A                            | 0.06        | 1.57  | 0.13 | 3.18  | 0.75         | 19.05 | 1.53    | 38.86 | 0.80    | 20.32 |
|                            |            | A      |                                   |             |       |      |       |              |       | 2.53    | 64.26 |         |       |
|                            | 02         | STD.   |                                   | 0.13        | 3.18  | 0.25 | 6.35  |              |       | 1.53    | 38.86 | 1.00    | 25.40 |
|                            |            | A      |                                   |             |       |      |       |              |       | 2.53    | 64.26 |         |       |
| 11                         | 01         | STD.   | 11 / B                            | 0.06        | 1.57  | 0.13 | 3.18  | 0.85         | 21.59 | 1.53    | 38.86 | 0.80    | 20.32 |
|                            |            | A      |                                   |             |       |      |       |              |       | 2.53    | 64.26 |         |       |
|                            | 02         | STD.   |                                   | 0.13        | 3.18  | 0.25 | 6.35  |              |       | 1.53    | 38.86 | 1.00    | 25.40 |
|                            |            | A      |                                   |             |       |      |       |              |       | 2.53    | 64.26 |         |       |
|                            | 03         | STD.   |                                   | 0.25        | 6.35  | 0.38 | 9.53  |              |       | 1.53    | 38.86 | 1.10    | 27.94 |
|                            |            | A      |                                   |             |       |      |       |              |       | 2.53    | 64.26 |         |       |
| 13                         | 02         | STD.   | 13 / C                            | 0.13        | 3.18  | 0.25 | 6.35  | 1.00         | 25.40 | 1.53    | 38.86 | 1.00    | 25.40 |
|                            |            | A      |                                   |             |       |      |       |              |       | 2.53    | 64.26 |         |       |
|                            | 03         | STD.   |                                   | 0.25        | 6.35  | 0.38 | 9.53  |              |       | 1.53    | 38.86 | 1.10    | 27.94 |
|                            |            | A      |                                   |             |       |      |       |              |       | 2.53    | 64.26 |         |       |
|                            | 04         | STD.   |                                   | 0.31        | 7.92  | 0.50 | 12.70 |              |       | 1.53    | 38.86 | 1.20    | 30.48 |
|                            |            | A      |                                   |             |       |      |       |              |       | 2.53    | 64.26 |         |       |
| 15                         | 02         | STD.   | 15 / D                            | 0.13        | 3.18  | 0.25 | 6.35  | 1.10         | 27.94 | 1.53    | 38.86 | 1.00    | 25.40 |
|                            |            | A      |                                   |             |       |      |       |              |       | 2.53    | 64.26 |         |       |
|                            |            | B      |                                   |             |       |      |       |              |       | 3.53    | 89.66 |         |       |
|                            | 03         | STD.   |                                   | 0.25        | 6.35  | 0.38 | 9.53  |              |       | 1.53    | 38.86 | 1.10    | 27.94 |
|                            |            | A      |                                   |             |       |      |       |              |       | 2.53    | 64.26 |         |       |
|                            |            | B      |                                   |             |       |      |       |              |       | 3.53    | 89.66 |         |       |
|                            | 04         | STD.   |                                   | 0.31        | 7.92  | 0.50 | 12.70 |              |       | 1.53    | 38.86 | 1.20    | 30.48 |
|                            |            | A      |                                   |             |       |      |       |              |       | 2.53    | 64.26 |         |       |
|                            |            | B      |                                   |             |       |      |       |              |       | 3.53    | 89.66 |         |       |
|                            | 05         | STD.   |                                   | 0.44        | 11.10 | 0.63 | 15.88 |              |       | 1.53    | 38.86 | 1.25    | 31.75 |
|                            |            | A      |                                   |             |       |      |       |              |       | 2.53    | 64.26 |         |       |
|                            |            | B      |                                   |             |       |      |       |              |       | 3.53    | 89.66 |         |       |
| 17                         | 02         | STD.   | 17/E                              | 0.13        | 3.18  | 0.25 | 6.35  | 1.25         | 31.75 | 1.53    | 38.86 | 1.00    | 25.40 |
|                            |            | A      |                                   |             |       |      |       |              |       | 2.53    | 64.26 |         |       |
|                            |            | B      |                                   |             |       |      |       |              |       | 3.53    | 89.66 |         |       |
|                            | 03         | STD.   |                                   | 0.25        | 6.35  | 0.38 | 9.53  |              |       | 1.53    | 38.86 | 1.10    | 27.94 |
|                            |            | A      |                                   |             |       |      |       |              |       | 2.53    | 64.26 |         |       |
|                            |            | B      |                                   |             |       |      |       |              |       | 3.53    | 89.66 |         |       |
|                            | 04         | STD.   |                                   | 0.31        | 7.92  | 0.50 | 12.70 |              |       | 1.53    | 38.86 | 1.20    | 30.48 |
|                            |            | A      |                                   |             |       |      |       |              |       | 2.53    | 64.26 |         |       |
| B                          |            | 3.53   | 89.66                             |             |       |      |       |              |       |         |       |         |       |

Note: For more cable entry and length options, email: sales@backshellworld.com  
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

#### For Connector Family L

##### 38999 Series III, IV

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV

TABLE – A, Cont.

| TABLE – A, Cont.           |               |        |                                         |             |       |      |       |              |       |         |        |         |       |
|----------------------------|---------------|--------|-----------------------------------------|-------------|-------|------|-------|--------------|-------|---------|--------|---------|-------|
| MIL PART NUMBER DESIGNATOR |               |        | CONNECTOR<br>SHELL SIZE/<br>CODE (REF.) | CABLE RANGE |       |      |       | A DIA. (MAX) |       | B (MAX) |        | Y (MAX) |       |
| CONNECTOR<br>SHELL SIZE    | CLAMP<br>SIZE | LENGTH |                                         | MIN         |       | MAX  |       | INCH         | MM    | INCH    | MM     | INCH    | MM    |
|                            |               |        |                                         | INCH        | MM    | INCH | MM    |              |       |         |        |         |       |
| 17, cont.                  | 05            | STD.   | 17/E                                    | 0.44        | 11.10 | 0.63 | 15.88 | 1.25         | 31.75 | 1.53    | 38.86  | 1.25    | 31.75 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            | 06            | STD.   |                                         | 0.56        | 14.27 | 0.75 | 19.05 |              |       | 1.53    | 38.86  | 1.40    | 35.56 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
| 19                         | 03            | STD.   | 19 / F                                  | 0.25        | 6.35  | 0.38 | 9.53  | 1.40         | 35.56 | 1.53    | 38.86  | 1.10    | 27.94 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            | 04            | STD.   |                                         | 0.31        | 7.92  | 0.50 | 12.70 |              |       | 1.53    | 38.86  | 1.20    | 30.48 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            | 05            | STD.   |                                         | 0.44        | 11.10 | 0.63 | 15.88 |              |       | 1.53    | 38.86  | 1.25    | 31.75 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            | 06            | STD.   |                                         | 0.56        | 14.27 | 0.75 | 19.05 |              |       | 1.53    | 38.86  | 1.40    | 35.56 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            | 07            | STD.   |                                         | 0.69        | 17.45 | 0.88 | 22.23 |              |       | 1.53    | 38.86  | 1.50    | 38.10 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
| 21                         | 03            | STD.   | 21 / G                                  | 0.25        | 6.35  | 0.38 | 9.53  | 1.50         | 38.10 | 1.53    | 38.86  | 1.10    | 27.94 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 04            | STD.   |                                         | 0.31        | 7.92  | 0.50 | 12.70 |              |       | 1.53    | 38.86  | 1.20    | 30.48 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 05            | STD.   |                                         | 0.44        | 11.10 | 0.63 | 15.88 |              |       | 1.53    | 38.86  | 1.25    | 31.75 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 06            | STD.   |                                         | 0.56        | 14.27 | 0.75 | 19.05 |              |       | 1.53    | 38.86  | 1.40    | 35.56 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 07            | STD.   |                                         | 0.69        | 17.45 | 0.88 | 22.23 |              |       | 1.53    | 38.86  | 1.50    | 38.10 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 08            | STD.   |                                         | 0.81        | 20.62 | 1.00 | 25.40 |              |       | 1.53    | 38.86  | 1.65    | 41.91 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
| 23                         | 03            | STD.   | 23 / H                                  | 0.25        | 6.35  | 0.38 | 9.53  | 1.65         | 41.91 | 1.53    | 38.86  | 1.10    | 27.94 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

### For Connector Family L

38999

III  
HD  
Dualok  
II  
I  
SJT  
Accessories  
Aquacon  
Herm/Seal  
PCB

Fiber  
Optics  
Contacts  
High Speed

EMI Filter  
Transient

Matrix 2  
26482

Matrix I Pyle  
83723  
III

Pyle  
26500

Crimp Rear  
Release  
Matrix  
5015

Class I  
22992

Back-  
Shells

Options  
Others

#### 38999 Series III, IV

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV

TABLE – A, Cont.

| TABLE – A, Cont.           |               |        |                                         |             |       |      |       |              |       |         |        |         |       |
|----------------------------|---------------|--------|-----------------------------------------|-------------|-------|------|-------|--------------|-------|---------|--------|---------|-------|
| MIL PART NUMBER DESIGNATOR |               |        | CONNECTOR<br>SHELL SIZE/<br>CODE (REF.) | CABLE RANGE |       |      |       | A DIA. (MAX) |       | B (MAX) |        | Y (MAX) |       |
| CONNECTOR<br>SHELL SIZE    | CLAMP<br>SIZE | LENGTH |                                         | MIN         |       | MAX  |       | INCH         | MM    | INCH    | MM     | INCH    | MM    |
|                            |               |        |                                         | INCH        | MM    | INCH | MM    |              |       |         |        |         |       |
| 23, cont.                  | 04            | STD.   | 23 / H                                  | 0.31        | 7.92  | 0.50 | 12.70 | 1.65         | 41.91 | 1.53    | 38.86  | 1.20    | 30.48 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 05            | STD.   |                                         | 0.44        | 11.10 | 0.63 | 15.88 |              |       | 1.53    | 38.86  | 1.25    | 31.75 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 06            | STD.   |                                         | 0.56        | 14.27 | 0.75 | 19.05 |              |       | 1.53    | 38.86  | 1.40    | 35.56 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 07            | STD.   |                                         | 0.69        | 17.45 | 0.88 | 22.23 |              |       | 1.53    | 38.86  | 1.50    | 38.10 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 08            | STD.   |                                         | 0.81        | 20.62 | 1.00 | 25.40 |              |       | 1.53    | 38.86  | 1.65    | 41.91 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 09            | STD.   |                                         | 0.94        | 23.80 | 1.13 | 28.58 |              |       | 1.53    | 38.86  | 1.75    | 44.45 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
| 25                         | 04            | STD.   | 25 / J                                  | 0.31        | 7.92  | 0.50 | 12.70 | 1.75         | 44.45 | 1.53    | 38.86  | 1.20    | 30.48 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 05            | STD.   |                                         | 0.44        | 11.10 | 0.63 | 15.88 |              |       | 1.53    | 38.86  | 1.25    | 31.75 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 06            | STD.   |                                         | 0.56        | 14.27 | 0.75 | 19.05 |              |       | 1.53    | 38.86  | 1.40    | 35.56 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 07            | STD.   |                                         | 0.69        | 17.45 | 0.88 | 22.23 |              |       | 1.53    | 38.86  | 1.50    | 38.10 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 08            | STD.   |                                         | 0.81        | 20.62 | 1.00 | 25.40 |              |       | 1.53    | 38.86  | 1.65    | 41.91 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 09            | STD.   |                                         | 0.94        | 23.80 | 1.13 | 28.58 |              |       | 1.53    | 38.86  | 1.75    | 44.45 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 10            | STD.   |                                         | 1.06        | 26.97 | 1.25 | 31.75 |              |       | 1.53    | 38.86  | 1.90    | 48.26 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com). All dimensions for reference only.

### For Connector Family L

**38999 Series III, IV**

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV

#### MIL Part Number

**M85049 / 19 11 W 03 A**

MIL Series

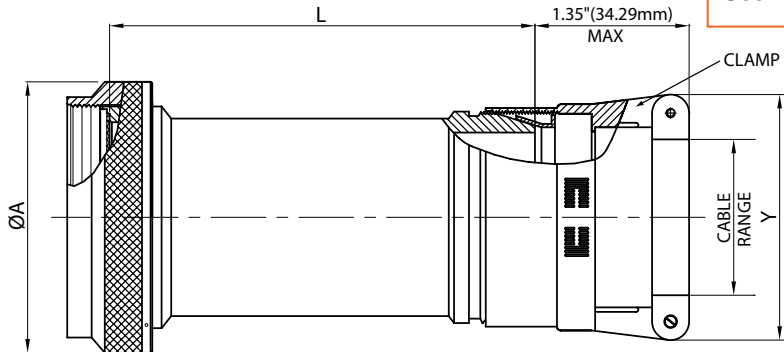
Slash Sheet:  
19: Straight,  
Spin Coupling

Shell Size:  
See Table-A

Length:  
See Table-A  
(Omit for "STD")

Clamp Size:  
See Table-A

Finish:  
See Table-2 (pg. 486)



**TABLE-A**

| TABLE-A                    |               |        |                                         |             |       |      |       |              |       |         |       |         |       |        |      |      |      |      |      |       |      |       |      |       |
|----------------------------|---------------|--------|-----------------------------------------|-------------|-------|------|-------|--------------|-------|---------|-------|---------|-------|--------|------|------|------|------|------|-------|------|-------|------|-------|
| MIL PART NUMBER DESIGNATOR |               |        | CONNECTOR<br>SHELL SIZE/<br>CODE (REF.) | CABLE RANGE |       |      |       | A DIA. (MAX) |       | L (MAX) |       | Y (MAX) |       |        |      |      |      |      |      |       |      |       |      |       |
| CONNECTOR<br>SHELL SIZE    | CLAMP<br>SIZE | LENGTH |                                         | MIN         |       | MAX  |       | INCH         | MM    | INCH    | MM    | INCH    | MM    |        |      |      |      |      |      |       |      |       |      |       |
|                            |               |        |                                         | INCH        | MM    | INCH | MM    |              |       |         |       |         |       |        |      |      |      |      |      |       |      |       |      |       |
| 9                          | 01            | STD.   | 09 / A                                  | 0.06        | 1.57  | 0.13 | 3.18  | 0.75         | 19.05 | 1.53    | 38.86 | 0.80    | 20.32 |        |      |      |      |      |      |       |      |       |      |       |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |        |      |      |      |      |      |       |      |       |      |       |
|                            | 02            | STD.   |                                         | 0.13        | 3.18  | 0.25 | 6.35  |              |       | 1.53    | 38.86 | 1.00    | 25.40 |        |      |      |      |      |      |       |      |       |      |       |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |        |      |      |      |      |      |       |      |       |      |       |
| 11                         | 01            | STD.   | 11 / B                                  | 0.06        | 1.57  | 0.13 | 3.18  | 0.85         | 21.59 | 1.53    | 38.86 | 0.80    | 20.32 |        |      |      |      |      |      |       |      |       |      |       |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |        |      |      |      |      |      |       |      |       |      |       |
|                            | 02            | STD.   |                                         | 0.13        | 3.18  | 0.25 | 6.35  |              |       | 1.53    | 38.86 | 1.00    | 25.40 |        |      |      |      |      |      |       |      |       |      |       |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |        |      |      |      |      |      |       |      |       |      |       |
|                            | 03            | STD.   |                                         | 0.25        | 6.35  | 0.38 | 9.53  |              |       | 1.53    | 38.86 | 1.10    | 27.94 |        |      |      |      |      |      |       |      |       |      |       |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |        |      |      |      |      |      |       |      |       |      |       |
|                            |               | 13     |                                         |             |       |      |       |              |       | 02      | STD.  |         |       | 13 / C | 0.13 | 3.18 | 0.25 | 6.35 | 1.00 | 25.40 | 1.53 | 38.86 | 1.00 | 25.40 |
|                            |               |        |                                         |             |       |      |       |              |       |         | A     |         |       |        |      |      |      |      |      |       | 2.53 | 64.26 |      |       |
| 03                         | STD.          |        | 0.25                                    | 6.35        | 0.38  | 9.53 | 1.53  | 38.86        | 1.10  | 27.94   |       |         |       |        |      |      |      |      |      |       |      |       |      |       |
|                            | A             |        |                                         |             |       |      | 2.53  | 64.26        |       |         |       |         |       |        |      |      |      |      |      |       |      |       |      |       |
| 04                         | STD.          | 0.31   | 7.92                                    | 0.50        | 12.70 | 1.53 | 38.86 | 1.20         | 30.48 |         |       |         |       |        |      |      |      |      |      |       |      |       |      |       |
|                            | A             |        |                                         |             |       | 2.53 | 64.26 |              |       |         |       |         |       |        |      |      |      |      |      |       |      |       |      |       |
| 15                         | 02            | STD.   | 15 / D                                  | 0.13        | 3.18  | 0.25 | 6.35  | 1.10         | 27.94 | 1.53    | 38.86 | 1.00    | 25.40 |        |      |      |      |      |      |       |      |       |      |       |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |        |      |      |      |      |      |       |      |       |      |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66 |         |       |        |      |      |      |      |      |       |      |       |      |       |
|                            |               | STD.   |                                         |             |       |      |       |              |       | 1.53    | 38.86 |         |       |        |      |      |      |      |      |       |      |       |      |       |
|                            | 03            | A      |                                         | 0.25        | 6.35  | 0.38 | 9.53  |              |       | 2.53    | 64.26 | 1.10    | 27.94 |        |      |      |      |      |      |       |      |       |      |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66 |         |       |        |      |      |      |      |      |       |      |       |      |       |
|                            |               | STD.   |                                         |             |       |      |       |              |       | 1.53    | 38.86 |         |       |        |      |      |      |      |      |       |      |       |      |       |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |        |      |      |      |      |      |       |      |       |      |       |
|                            | 04            | A      |                                         | 0.31        | 7.92  | 0.50 | 12.70 |              |       | 2.53    | 64.26 | 1.20    | 30.48 |        |      |      |      |      |      |       |      |       |      |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66 |         |       |        |      |      |      |      |      |       |      |       |      |       |
|                            |               | STD.   |                                         |             |       |      |       |              |       | 1.53    | 38.86 |         |       |        |      |      |      |      |      |       |      |       |      |       |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |        |      |      |      |      |      |       |      |       |      |       |
|                            | 05            | STD.   |                                         | 0.44        | 11.10 | 0.63 | 15.88 |              |       | 1.53    | 38.86 | 1.25    | 31.75 |        |      |      |      |      |      |       |      |       |      |       |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |        |      |      |      |      |      |       |      |       |      |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66 |         |       |        |      |      |      |      |      |       |      |       |      |       |
|                            |               | STD.   |                                         |             |       |      |       |              |       | 1.53    | 38.86 |         |       |        |      |      |      |      |      |       |      |       |      |       |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE



### For Connector Family L

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

High Speed

Contacts

EMI Filter

Transient

Matrix 2

26482

Matrix 1 Pyle

83723

III

26500

Pyle

5015

Crimp Rear Release Matrix

22992

Class 1

Back-

Shells

Options

Others

#### 38999 Series III, IV

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV

| TABLE-A, cont.             |               |        |                                         |             |       |      |       |              |       |         |        |         |       |
|----------------------------|---------------|--------|-----------------------------------------|-------------|-------|------|-------|--------------|-------|---------|--------|---------|-------|
| MIL PART NUMBER DESIGNATOR |               |        | CONNECTOR<br>SHELL SIZE/<br>CODE (REF.) | CABLE RANGE |       |      |       | A DIA. (MAX) |       | L (MAX) |        | Y (MAX) |       |
| CONNECTOR<br>SHELL SIZE    | CLAMP<br>SIZE | LENGTH |                                         | MIN         |       | MAX  |       | INCH         | MM    | INCH    | MM     | INCH    | MM    |
|                            |               |        |                                         | INCH        | MM    | INCH | MM    |              |       |         |        |         |       |
| 17                         | 02            | STD.   | 17 / E                                  | 0.13        | 3.18  | 0.25 | 6.35  | 1.25         | 31.75 | 1.53    | 38.86  | 1.00    | 25.40 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            | 03            | STD.   |                                         | 0.25        | 6.35  | 0.38 | 9.53  |              |       | 1.53    | 38.86  | 1.10    | 27.94 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            | 04            | STD.   |                                         | 0.31        | 7.92  | 0.50 | 12.70 |              |       | 1.53    | 38.86  | 1.20    | 30.48 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            | 05            | STD.   |                                         | 0.44        | 11.10 | 0.63 | 15.88 |              |       | 1.53    | 38.86  | 1.25    | 31.75 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            | 06            | STD.   |                                         | 0.56        | 14.27 | 0.75 | 19.05 |              |       | 1.53    | 38.86  | 1.40    | 35.56 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
| 19                         | 03            | STD.   | 19 / F                                  | 0.25        | 6.35  | 0.38 | 9.53  | 1.40         | 35.56 | 1.53    | 38.86  | 1.10    | 27.94 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            | 04            | STD.   |                                         | 0.31        | 7.92  | 0.50 | 12.70 |              |       | 1.53    | 38.86  | 1.20    | 30.48 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            | 05            | STD.   |                                         | 0.44        | 11.10 | 0.63 | 15.88 |              |       | 1.53    | 38.86  | 1.25    | 31.75 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            | 06            | STD.   |                                         | 0.56        | 14.27 | 0.75 | 19.05 |              |       | 1.53    | 38.86  | 1.40    | 35.56 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            | 07            | STD.   |                                         | 0.69        | 17.45 | 0.88 | 22.23 |              |       | 1.53    | 38.86  | 1.50    | 38.10 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
| 21                         | 03            | STD.   | 21 / G                                  | 0.25        | 6.35  | 0.38 | 9.53  | 1.50         | 38.10 | 1.53    | 38.86  | 1.10    | 27.94 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 04            | STD.   |                                         | 0.31        | 7.92  | 0.50 | 12.70 |              |       | 1.53    | 38.86  | 1.20    | 30.48 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 05            | STD.   |                                         | 0.44        | 11.10 | 0.63 | 15.88 |              |       | 1.53    | 38.86  | 1.25    | 31.75 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 06            | STD.   |                                         | 0.56        | 14.27 | 0.75 | 19.05 |              |       | 1.53    | 38.86  | 1.40    | 35.56 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 07            | STD.   |                                         | 0.69        | 17.45 | 0.88 | 22.23 |              |       | 1.53    | 38.86  | 1.50    | 38.10 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 08            | STD.   |                                         | 0.81        | 20.62 | 1.00 | 25.40 |              |       | 1.53    | 38.86  | 1.65    | 41.91 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

### For Connector Family L

38999 Series III, IV

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV

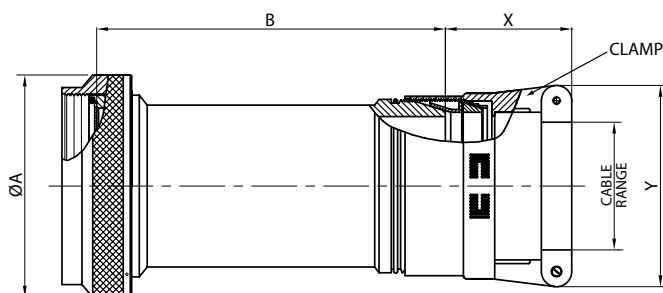
TABLE-A, cont.

| TABLE-A, cont.             |               |        |                                         |             |       |      |       |              |       |         |        |         |       |
|----------------------------|---------------|--------|-----------------------------------------|-------------|-------|------|-------|--------------|-------|---------|--------|---------|-------|
| MIL PART NUMBER DESIGNATOR |               |        | CONNECTOR<br>SHELL SIZE/<br>CODE (REF.) | CABLE RANGE |       |      |       | A DIA. (MAX) |       | L (MAX) |        | Y (MAX) |       |
| CONNECTOR<br>SHELL SIZE    | CLAMP<br>SIZE | LENGTH |                                         | MIN         |       | MAX  |       | INCH         | MM    | INCH    | MM     | INCH    | MM    |
|                            |               |        |                                         | INCH        | MM    | INCH | MM    |              |       |         |        |         |       |
| 23                         | 03            | STD.   | 23 / H                                  | 0.25        | 6.35  | 0.38 | 9.53  | 1.65         | 41.91 | 1.53    | 38.86  | 1.10    | 27.94 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 04            | STD.   |                                         | 0.31        | 7.92  | 0.50 | 12.70 |              |       | 1.53    | 38.86  | 1.20    | 30.48 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 05            | STD.   |                                         | 0.44        | 11.10 | 0.63 | 15.88 |              |       | 1.53    | 38.86  | 1.25    | 31.75 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 06            | STD.   |                                         | 0.56        | 14.27 | 0.75 | 19.05 |              |       | 1.53    | 38.86  | 1.40    | 35.56 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 07            | STD.   |                                         | 0.69        | 17.45 | 0.88 | 22.23 |              |       | 1.53    | 38.86  | 1.50    | 38.10 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 08            | STD.   |                                         | 0.81        | 20.62 | 1.00 | 25.40 |              |       | 1.53    | 38.86  | 1.65    | 41.91 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 09            | STD.   |                                         | 0.94        | 23.80 | 1.13 | 28.58 |              |       | 1.53    | 38.86  | 1.75    | 44.45 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
| 25                         | 04            | STD.   | 25 / J                                  | 0.31        | 7.92  | 0.50 | 12.70 | 1.75         | 44.45 | 1.53    | 38.86  | 1.20    | 30.48 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 05            | STD.   |                                         | 0.44        | 11.10 | 0.63 | 15.88 |              |       | 1.53    | 38.86  | 1.25    | 31.75 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 06            | STD.   |                                         | 0.56        | 14.27 | 0.75 | 19.05 |              |       | 1.53    | 38.86  | 1.40    | 35.56 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 07            | STD.   |                                         | 0.69        | 17.45 | 0.88 | 22.23 |              |       | 1.53    | 38.86  | 1.50    | 38.10 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 08            | STD.   |                                         | 0.81        | 20.62 | 1.00 | 25.40 |              |       | 1.53    | 38.86  | 1.65    | 41.91 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 09            | STD.   |                                         | 0.94        | 23.80 | 1.13 | 28.58 |              |       | 1.53    | 38.86  | 1.75    | 44.45 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |
|                            | 10            | STD.   |                                         | 1.06        | 26.97 | 1.25 | 31.75 |              |       | 1.53    | 38.86  | 1.90    | 48.26 |
|                            |               | A      |                                         |             |       |      |       |              |       | 2.53    | 64.26  |         |       |
|                            |               | B      |                                         |             |       |      |       |              |       | 3.53    | 89.66  |         |       |
|                            |               | C      |                                         |             |       |      |       |              |       | 4.53    | 115.06 |         |       |

### For Connector Family L

**38999 Series III, IV**

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV



#### MIL Part Number

**M85049 / 18 11 W 03 A**

MIL Series

Slash Sheet:  
18: Straight,  
Spin Coupling

Shell Size:  
See Table-A

Length:  
See Table-A  
(Omit for "STD")

Clamp Size:  
See Table-A

Finish:  
See Table-2  
(pg. 486)

**TABLE - A**

| TABLE – A                  |               |                |                                         |             |       |      |       |              |       |         |       |         |       |         |       |
|----------------------------|---------------|----------------|-----------------------------------------|-------------|-------|------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|
| MIL PART NUMBER DESIGNATOR |               |                | CONNECTOR<br>SHELL SIZE/<br>CODE (REF.) | CABLE RANGE |       |      |       | A DIA. (MAX) |       | B (MAX) |       | X (MAX) |       | Y (MAX) |       |
| CONNECTOR<br>SHELL SIZE    | CLAMP<br>SIZE | LENGTH<br>CODE |                                         | MIN         |       | MAX  |       | INCH         | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    |
|                            |               |                |                                         | INCH        | MM    | INCH | MM    |              |       |         |       |         |       |         |       |
| 9                          | 01            | STD.           | 09 / A                                  | 0.06        | 1.57  | 0.13 | 3.18  | 0.75         | 19.05 | 1.53    | 38.86 | 1.25    | 31.75 | 0.80    | 20.32 |
|                            |               | A              |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |         |       |
|                            | 02            | STD.           |                                         | 0.13        | 3.18  | 0.25 | 6.35  |              |       | 1.53    | 38.86 | 1.25    | 31.75 | 1.00    | 25.40 |
|                            |               | A              |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |         |       |
| 11                         | 01            | STD.           | 11 / B                                  | 0.06        | 1.57  | 0.13 | 3.18  | 0.85         | 21.59 | 1.53    | 38.86 | 1.25    | 31.75 | 0.80    | 20.32 |
|                            |               | A              |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |         |       |
|                            | 02            | STD.           |                                         | 0.13        | 3.18  | 0.25 | 6.35  |              |       | 1.53    | 38.86 | 1.25    | 31.75 | 1.00    | 25.40 |
|                            |               | A              |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |         |       |
|                            | 03            | STD.           |                                         | 0.25        | 6.35  | 0.38 | 9.53  |              |       | 1.53    | 38.86 | 1.25    | 31.75 | 1.10    | 27.94 |
|                            |               | A              |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |         |       |
| 13                         | 02            | STD.           | 13 / C                                  | 0.13        | 3.18  | 0.25 | 6.35  | 1.00         | 25.40 | 1.53    | 38.86 | 1.25    | 31.75 | 1.00    | 25.40 |
|                            |               | A              |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |         |       |
|                            | 03            | STD.           |                                         | 0.25        | 6.35  | 0.38 | 9.53  |              |       | 1.53    | 38.86 | 1.25    | 31.75 | 1.10    | 27.94 |
|                            |               | A              |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |         |       |
|                            | 04            | STD.           |                                         | 0.38        | 9.53  | 0.50 | 12.70 |              |       | 1.53    | 38.86 | 1.25    | 31.75 | 1.20    | 30.48 |
|                            |               | A              |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |         |       |
| 15                         | 02            | STD.           | 15 / D                                  | 0.13        | 3.18  | 0.25 | 6.35  | 1.15         | 29.21 | 1.53    | 38.86 | 1.25    | 31.75 | 1.00    | 25.40 |
|                            |               | A              |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |         |       |
|                            |               | B              |                                         |             |       |      |       |              |       | 3.53    | 89.66 |         |       |         |       |
|                            |               | STD.           |                                         |             |       |      |       |              |       | 1.53    | 38.86 |         |       |         |       |
|                            | 03            | A              |                                         | 0.25        | 6.35  | 0.38 | 9.53  |              |       | 2.53    | 64.26 | 1.25    | 31.75 | 1.10    | 27.94 |
|                            |               | B              |                                         |             |       |      |       |              |       | 3.53    | 89.66 |         |       |         |       |
|                            |               | STD.           |                                         |             |       |      |       |              |       | 1.53    | 38.86 |         |       |         |       |
|                            |               | A              |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |         |       |
|                            | 04            | STD.           |                                         | 0.38        | 9.53  | 0.50 | 12.70 |              |       | 1.53    | 38.86 | 1.25    | 31.75 | 1.20    | 30.48 |
|                            |               | A              |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |         |       |
|                            |               | B              |                                         |             |       |      |       |              |       | 3.53    | 89.66 |         |       |         |       |
|                            |               | STD.           |                                         |             |       |      |       |              |       | 1.53    | 38.86 |         |       |         |       |
| 05                         | A             | 0.50           | 12.70                                   | 0.63        | 15.88 | 2.53 | 64.26 | 1.31         | 33.27 | 1.25    | 31.75 |         |       |         |       |
|                            | B             |                |                                         |             |       | 3.53 | 89.66 |              |       |         |       |         |       |         |       |
|                            | STD.          |                |                                         |             |       | 1.53 | 38.86 |              |       |         |       |         |       |         |       |
|                            | A             |                |                                         |             |       | 2.53 | 64.26 |              |       |         |       |         |       |         |       |
| 17                         | 02            | STD.           | 17 / E                                  | 0.13        | 3.18  | 0.25 | 6.35  | 1.25         | 31.75 | 1.53    | 38.86 | 1.25    | 31.75 | 1.00    | 25.40 |
|                            |               | A              |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |         |       |
|                            |               | B              |                                         |             |       |      |       |              |       | 3.53    | 89.66 |         |       |         |       |
|                            |               | STD.           |                                         |             |       |      |       |              |       | 1.53    | 38.86 |         |       |         |       |
|                            | 03            | A              |                                         | 0.25        | 6.35  | 0.38 | 9.53  |              |       | 2.53    | 64.26 | 1.25    | 31.75 | 1.10    | 27.94 |
|                            |               | B              |                                         |             |       |      |       |              |       | 3.53    | 89.66 |         |       |         |       |
|                            |               | STD.           |                                         |             |       |      |       |              |       | 1.53    | 38.86 |         |       |         |       |
|                            |               | A              |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |         |       |
|                            | 04            | STD.           |                                         | 0.38        | 9.53  | 0.50 | 12.70 |              |       | 1.53    | 38.86 | 1.25    | 31.75 | 1.20    | 30.48 |
|                            |               | A              |                                         |             |       |      |       |              |       | 2.53    | 64.26 |         |       |         |       |
|                            |               | B              |                                         |             |       |      |       |              |       | 3.53    | 89.66 |         |       |         |       |
|                            |               | STD.           |                                         |             |       |      |       |              |       | 1.53    | 38.86 |         |       |         |       |
| 05                         | A             | 0.50           | 12.70                                   | 0.63        | 15.88 | 2.53 | 64.26 | 1.31         | 33.27 | 1.25    | 31.75 |         |       |         |       |
|                            | B             |                |                                         |             |       | 3.53 | 89.66 |              |       |         |       |         |       |         |       |
|                            | STD.          |                |                                         |             |       | 1.53 | 38.86 |              |       |         |       |         |       |         |       |
|                            | A             |                |                                         |             |       | 2.53 | 64.26 |              |       |         |       |         |       |         |       |
| 06                         | STD.          | 0.63           | 15.88                                   | 0.75        | 19.05 | 1.53 | 38.86 | 1.38         | 35.05 | 1.40    | 35.56 |         |       |         |       |
|                            | A             |                |                                         |             |       | 2.53 | 64.26 |              |       |         |       |         |       |         |       |
|                            | B             |                |                                         |             |       | 3.53 | 89.66 |              |       |         |       |         |       |         |       |
|                            | STD.          |                |                                         |             |       | 1.53 | 38.86 |              |       |         |       |         |       |         |       |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

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83723

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Pyle

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Shells

Options

Others

### For Connector Family L

**38999 Series III, IV**

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV

**TABLE – A, cont.**

| TABLE – A, cont.           |            |             |                                   |             |       |      |       |              |       |         |        |         |       |         |       |
|----------------------------|------------|-------------|-----------------------------------|-------------|-------|------|-------|--------------|-------|---------|--------|---------|-------|---------|-------|
| MIL PART NUMBER DESIGNATOR |            |             | CONNECTOR SHELL SIZE/ CODE (REF.) | CABLE RANGE |       |      |       | A DIA. (MAX) |       | B (MAX) |        | X (MAX) |       | Y (MAX) |       |
| CONNECTOR SHELL SIZE       | CLAMP SIZE | LENGTH CODE |                                   | MIN         |       | MAX  |       | INCH         | MM    | INCH    | MM     | INCH    | MM    | INCH    | MM    |
|                            |            |             |                                   | INCH        | MM    | INCH | MM    |              |       |         |        |         |       |         |       |
| 19                         | 03         | STD.        | 19 / F                            | 0.25        | 6.35  | 0.38 | 9.53  | 1.40         | 35.56 | 1.53    | 38.86  | 1.25    | 31.75 | 1.10    | 27.94 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            | 04         | STD.        |                                   | 0.38        | 9.53  | 0.50 | 12.70 |              |       | 1.53    | 38.86  | 1.25    | 31.75 | 1.20    | 30.48 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            | 05         | STD.        |                                   | 0.50        | 12.70 | 0.63 | 15.88 |              |       | 1.53    | 38.86  | 1.31    | 33.27 | 1.25    | 31.75 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            | 06         | STD.        |                                   | 0.63        | 15.88 | 0.75 | 19.05 |              |       | 1.53    | 38.86  | 1.38    | 35.05 | 1.40    | 35.56 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            | 07         | STD.        |                                   | 0.75        | 19.05 | 0.88 | 22.23 |              |       | 1.53    | 38.86  | 1.50    | 38.10 | 1.50    | 38.10 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
| 21                         | 03         | STD.        | 21 / G                            | 0.25        | 6.35  | 0.38 | 9.53  | 1.55         | 39.37 | 1.53    | 38.86  | 1.25    | 31.75 | 1.10    | 27.94 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |
|                            | 04         | STD.        |                                   | 0.38        | 9.53  | 0.50 | 12.70 |              |       | 1.53    | 38.86  | 1.25    | 31.75 | 1.20    | 30.48 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |
|                            | 05         | STD.        |                                   | 0.50        | 12.70 | 0.63 | 15.88 |              |       | 1.53    | 38.86  | 1.31    | 33.27 | 1.25    | 31.75 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |
|                            | 06         | STD.        |                                   | 0.63        | 15.88 | 0.75 | 19.05 |              |       | 1.53    | 38.86  | 1.38    | 35.05 | 1.40    | 35.56 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |
|                            | 07         | STD.        |                                   | 0.75        | 19.05 | 0.88 | 22.23 |              |       | 1.53    | 38.86  | 1.50    | 38.10 | 1.50    | 38.10 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |
|                            | 08         | STD.        |                                   | 0.88        | 22.23 | 1.00 | 25.40 |              |       | 1.53    | 38.86  | 1.63    | 41.40 | 1.65    | 41.91 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |
| 23                         | 03         | STD.        | 23 / H                            | 0.25        | 6.35  | 0.38 | 9.53  | 1.65         | 41.91 | 1.53    | 38.86  | 1.25    | 31.75 | 1.10    | 27.94 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |
|                            | 04         | STD.        |                                   | 0.38        | 9.53  | 0.50 | 12.70 |              |       | 1.53    | 38.86  | 1.25    | 31.75 | 1.20    | 30.48 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |
|                            | 05         | STD.        |                                   | 0.50        | 12.70 | 0.63 | 15.88 |              |       | 1.53    | 38.86  | 1.31    | 33.27 | 1.25    | 31.75 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |
|                            | 06         | STD.        |                                   | 0.63        | 15.88 | 0.75 | 19.05 |              |       | 1.53    | 38.86  | 1.38    | 35.05 | 1.40    | 35.56 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

### For Connector Family L

#### 38999 Series III, IV

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV

| TABLE – A, cont.           |            |             |                                   |             |       |      |       |              |       |         |        |         |       |         |       |
|----------------------------|------------|-------------|-----------------------------------|-------------|-------|------|-------|--------------|-------|---------|--------|---------|-------|---------|-------|
| MIL PART NUMBER DESIGNATOR |            |             | CONNECTOR SHELL SIZE/ CODE (REF.) | CABLE RANGE |       |      |       | A DIA. (MAX) |       | B (MAX) |        | X (MAX) |       | Y (MAX) |       |
| CONNECTOR SHELL SIZE       | CLAMP SIZE | LENGTH CODE |                                   | MIN         |       | MAX  |       | INCH         | MM    | INCH    | MM     | INCH    | MM    | INCH    | MM    |
|                            |            |             |                                   | INCH        | MM    | INCH | MM    |              |       |         |        |         |       |         |       |
| 23, cont.                  | 07         | STD.        | 23 / H                            | 0.75        | 19.05 | 0.88 | 22.23 | 1.65         | 41.91 | 1.53    | 38.86  | 1.50    | 38.10 | 1.50    | 38.10 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |
|                            | 08         | STD.        |                                   | 0.88        | 22.23 | 1.00 | 25.40 |              |       | 1.53    | 38.86  | 1.63    | 41.40 | 1.65    | 42.91 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |
|                            | 09         | STD.        |                                   | 1.00        | 25.40 | 1.13 | 28.58 |              |       | 1.53    | 38.86  | 1.63    | 41.40 | 1.75    | 44.45 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |
| 25                         | 04         | STD.        | 25 / J                            | 0.38        | 9.53  | 0.50 | 12.70 | 1.85         | 46.99 | 1.53    | 38.86  | 1.25    | 31.75 | 1.20    | 30.48 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |
|                            | 05         | STD.        |                                   | 0.50        | 12.70 | 0.63 | 15.88 |              |       | 1.53    | 38.86  | 1.31    | 33.27 | 1.25    | 31.75 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |
|                            | 06         | STD.        |                                   | 0.63        | 15.88 | 0.75 | 19.05 |              |       | 1.53    | 38.86  | 1.38    | 35.05 | 1.40    | 35.56 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |
|                            | 07         | STD.        |                                   | 0.75        | 19.05 | 0.88 | 22.23 |              |       | 1.53    | 38.86  | 1.50    | 38.10 | 1.50    | 38.10 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |
|                            | 08         | STD.        |                                   | 0.88        | 22.23 | 1.00 | 25.40 |              |       | 1.53    | 38.86  | 1.63    | 41.40 | 1.65    | 41.91 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |
|                            | 09         | STD.        |                                   | 1.00        | 25.40 | 1.13 | 28.58 |              |       | 1.53    | 38.86  | 1.63    | 41.40 | 1.75    | 44.45 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |
|                            | 10         | STD.        |                                   | 1.13        | 28.58 | 1.25 | 31.75 |              |       | 1.53    | 38.86  | 1.63    | 41.40 | 1.90    | 48.26 |
|                            |            | A           |                                   |             |       |      |       |              |       | 2.53    | 64.26  |         |       |         |       |
|                            |            | B           |                                   |             |       |      |       |              |       | 3.53    | 89.66  |         |       |         |       |
|                            |            | C           |                                   |             |       |      |       |              |       | 4.53    | 115.06 |         |       |         |       |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

83723

III

Matrix 1 Pyle

26500

Pyle

5015

Crimp Rear Release Matrix

22992

Class L

Back-

Shells

Options

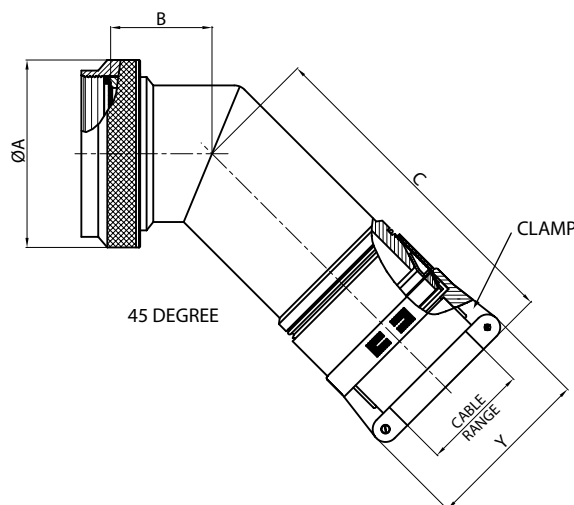
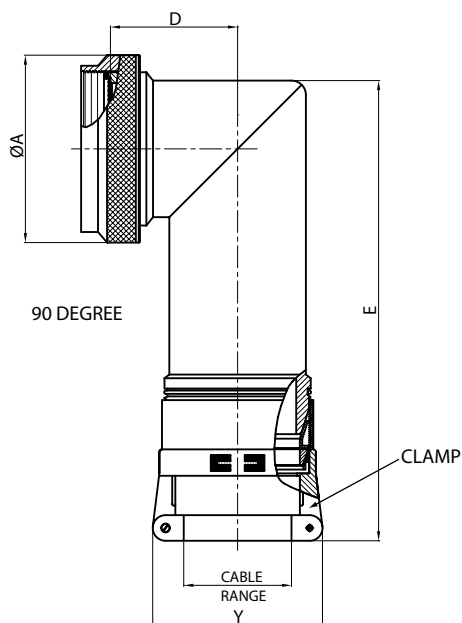
Others



### For Connector Family L

**38999 Series III, IV**

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV



#### MIL Part Number

**M85049 / 79 11 W 03**

MIL Series: **M85049**  
 Slash Sheet: **79**  
 79: 90°, Spin Coupling  
 78: 45°, Spin Coupling  
 Shell Size: **11**  
 See Table-B  
 Clamp Size: See Table-B  
 Finish: See Table-2 (pg. 486)

**TABLE - B**

| TABLE – B                  |            |                                   |             |       |      |       |              |       |         |       |         |       |         |       |         |       |         |       |  |
|----------------------------|------------|-----------------------------------|-------------|-------|------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|--|
| MIL PART NUMBER DESIGNATOR |            | CONNECTOR SHELL SIZE/ CODE (REF.) | CABLE RANGE |       |      |       | A DIA. (MAX) |       | B (MAX) |       | C (MAX) |       | D (MAX) |       | E (MAX) |       | Y (MAX) |       |  |
| CONNECTOR SHELL SIZE       | CLAMP SIZE |                                   | MIN         |       | MAX  |       | INCH         | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    |  |
|                            |            |                                   | INCH        | MM    | INCH | MM    |              |       |         |       |         |       |         |       |         |       |         |       |  |
| 9                          | 01         | 09 / A                            | 0.06        | 1.57  | 0.13 | 3.18  | 0.75         | 19.05 | 0.46    | 11.68 | 3.15    | 80.01 | 0.69    | 17.53 | 3.46    | 87.88 | 0.80    | 20.32 |  |
|                            | 02         |                                   | 0.13        | 3.18  | 0.25 | 6.35  |              |       |         |       |         |       |         |       |         |       | 1.00    | 25.40 |  |
| 11                         | 01         | 11 / B                            | 0.06        | 1.57  | 0.13 | 3.18  | 0.85         | 21.59 | 0.52    | 13.21 | 3.21    | 81.53 | 0.78    | 19.81 | 3.58    | 90.93 | 0.80    | 20.32 |  |
|                            | 02         |                                   | 0.13        | 3.18  | 0.25 | 6.35  |              |       |         |       |         |       |         |       |         |       | 1.00    | 25.40 |  |
|                            | 03         |                                   | 0.25        | 6.35  | 0.38 | 9.53  |              |       |         |       |         |       |         |       |         |       | 1.10    | 27.94 |  |
| 13                         | 02         | 13 / C                            | 0.13        | 3.18  | 0.25 | 6.35  | 1.00         | 25.40 | 0.58    | 14.73 | 3.27    | 83.06 | 0.80    | 20.32 | 3.60    | 91.44 | 1.00    | 25.40 |  |
|                            | 03         |                                   | 0.25        | 6.35  | 0.38 | 9.53  |              |       |         |       |         |       |         |       |         |       | 1.10    | 27.94 |  |
|                            | 04         |                                   | 0.38        | 9.53  | 0.50 | 12.70 |              |       |         |       |         |       |         |       |         |       | 1.20    | 30.48 |  |
|                            | 02         |                                   | 0.13        | 3.18  | 0.25 | 6.35  |              |       |         |       |         |       |         |       |         |       | 1.00    | 25.40 |  |
| 15                         | 03         | 15 / D                            | 0.25        | 6.35  | 0.38 | 9.53  | 1.15         | 29.21 | 0.65    | 16.51 | 3.36    | 85.34 | 0.88    | 22.35 | 3.67    | 93.22 | 1.10    | 27.94 |  |
|                            | 04         |                                   | 0.38        | 9.53  | 0.50 | 12.70 |              |       |         |       |         |       |         |       |         |       | 1.20    | 30.48 |  |
|                            | 05         |                                   | 0.50        | 12.70 | 0.63 | 15.88 |              |       |         |       |         |       |         |       |         |       | 1.25    | 31.75 |  |
|                            | 02         |                                   | 0.13        | 3.18  | 0.25 | 6.35  |              |       |         |       |         |       |         |       |         |       | 1.00    | 25.40 |  |
|                            | 03         |                                   | 0.25        | 6.35  | 0.38 | 9.53  |              |       |         |       |         |       |         |       |         |       | 1.10    | 27.94 |  |
| 17                         | 04         | 17 / E                            | 0.38        | 9.53  | 0.50 | 12.70 | 1.25         | 31.75 | 0.74    | 18.80 | 3.47    | 88.14 | 0.93    | 23.62 | 3.76    | 95.50 | 1.20    | 30.48 |  |
|                            | 05         |                                   | 0.50        | 12.70 | 0.63 | 15.88 |              |       |         |       |         |       |         |       |         |       | 1.25    | 31.75 |  |
|                            | 06         |                                   | 0.63        | 15.88 | 0.75 | 19.05 |              |       |         |       |         |       |         |       |         |       | 1.40    | 35.56 |  |
|                            | 02         |                                   | 0.13        | 3.18  | 0.25 | 6.35  |              |       |         |       |         |       |         |       |         |       | 1.00    | 25.40 |  |
|                            | 03         |                                   | 0.25        | 6.35  | 0.38 | 9.53  |              |       |         |       |         |       |         |       |         |       | 1.10    | 27.94 |  |
|                            | 04         |                                   | 0.38        | 9.53  | 0.50 | 12.70 |              |       |         |       |         |       |         |       |         |       | 1.20    | 30.48 |  |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
 All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

### For Connector Family L

#### 38999 Series III, IV

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV

TABLE – B, cont.

| TABLE – B, cont.           |            |                                   |             |       |       |       |              |       |         |       |         |       |         |       |         |        |         |       |  |
|----------------------------|------------|-----------------------------------|-------------|-------|-------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|--------|---------|-------|--|
| MIL PART NUMBER DESIGNATOR |            | CONNECTOR SHELL SIZE/ CODE (REF.) | CABLE RANGE |       |       |       | A DIA. (MAX) |       | B (MAX) |       | C (MAX) |       | D (MAX) |       | E (MAX) |        | Y (MAX) |       |  |
| CONNECTOR SHELL SIZE       | CLAMP SIZE |                                   | MIN         |       | MAX   |       | INCH         | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM     | INCH    | MM    |  |
|                            |            |                                   | INCH        | MM    | INCH  | MM    |              |       |         |       |         |       |         |       |         |        |         |       |  |
| 19                         | 03         | 19 / F                            | 0.25        | 6.35  | 0.38  | 9.53  | 1.40         | 35.56 | 0.93    | 23.62 | 3.66    | 92.96 | 1.01    | 25.65 | 3.93    | 99.82  | 1.10    | 27.94 |  |
|                            | 04         |                                   | 0.38        | 9.53  | 0.50  | 12.70 |              |       |         |       |         |       |         |       |         |        | 1.20    | 30.48 |  |
|                            | 05         |                                   | 0.50        | 12.70 | 0.63  | 15.88 |              |       |         |       |         |       |         |       |         |        | 1.25    | 31.75 |  |
|                            | 06         |                                   | 0.63        | 15.88 | 0.75  | 19.05 |              |       |         |       |         |       |         |       |         |        | 1.40    | 35.56 |  |
|                            | 07         |                                   | 0.75        | 19.05 | 0.88  | 22.23 |              |       |         |       |         |       |         |       |         |        | 1.50    | 38.10 |  |
| 21                         | 03         | 21 / G                            | 0.25        | 6.35  | 0.38  | 9.53  | 1.55         | 39.37 | 0.93    | 23.62 | 3.66    | 92.96 | 1.06    | 26.92 | 3.93    | 99.82  | 1.10    | 27.94 |  |
|                            | 04         |                                   | 0.38        | 9.53  | 0.50  | 12.70 |              |       |         |       |         |       |         |       |         |        | 1.20    | 30.48 |  |
|                            | 05         |                                   | 0.50        | 12.70 | 0.63  | 15.88 |              |       |         |       |         |       |         |       |         |        | 1.25    | 31.75 |  |
|                            | 06         |                                   | 0.63        | 15.88 | 0.75  | 19.05 |              |       |         |       |         |       |         |       |         |        | 1.40    | 35.56 |  |
|                            | 07         |                                   | 0.75        | 19.05 | 0.88  | 22.23 |              |       |         |       |         |       |         |       |         |        | 1.50    | 38.10 |  |
|                            | 08         |                                   | 0.88        | 22.23 | 1.00  | 25.40 |              |       |         |       |         |       |         |       |         |        | 1.65    | 41.91 |  |
|                            | 03         | 23 / H                            | 0.25        | 6.35  | 0.38  | 9.53  | 1.65         | 41.91 | 1.02    | 25.91 | 3.81    | 96.77 | 1.17    | 29.72 | 4.04    | 102.62 | 1.10    | 27.94 |  |
|                            | 04         |                                   | 0.38        | 9.53  | 0.50  | 12.70 |              |       |         |       |         |       |         |       |         |        | 1.20    | 30.48 |  |
|                            | 05         |                                   | 0.50        | 12.70 | 0.63  | 15.88 |              |       |         |       |         |       |         |       |         |        | 1.25    | 31.75 |  |
|                            | 06         |                                   | 0.63        | 15.88 | 0.75  | 19.05 |              |       |         |       |         |       |         |       |         |        | 1.40    | 35.56 |  |
| 07                         | 0.75       |                                   | 19.05       | 0.88  | 22.23 | 1.50  |              |       |         |       |         |       |         |       |         |        | 38.10   |       |  |
|                            | 08         |                                   | 0.88        | 22.23 | 1.00  | 25.40 |              |       |         |       |         |       |         |       |         |        | 1.65    | 41.91 |  |
|                            | 09         |                                   | 1.00        | 25.40 | 1.13  | 28.58 |              |       |         |       |         |       |         |       |         |        | 1.75    | 44.45 |  |
|                            | 04         | 25 / J                            | 0.38        | 9.53  | 0.50  | 12.70 | 1.85         | 46.99 | 1.02    | 25.91 | 3.81    | 96.77 | 1.18    | 29.97 | 4.04    | 102.62 | 1.20    | 30.48 |  |
|                            | 05         |                                   | 0.50        | 12.70 | 0.63  | 15.88 |              |       |         |       |         |       |         |       |         |        | 1.25    | 31.75 |  |
|                            | 06         |                                   | 0.63        | 15.88 | 0.75  | 19.05 |              |       |         |       |         |       |         |       |         |        | 1.40    | 35.56 |  |
| 07                         | 0.75       |                                   | 19.05       | 0.88  | 22.23 | 1.50  |              |       |         |       |         |       |         |       |         |        | 38.10   |       |  |
| 08                         | 0.88       |                                   | 22.23       | 1.00  | 25.40 | 1.65  |              |       |         |       |         |       |         |       |         |        | 41.91   |       |  |
|                            | 09         |                                   | 1.00        | 25.40 | 1.13  | 28.58 |              |       |         |       |         |       |         |       |         |        | 1.75    | 44.45 |  |
|                            | 10         |                                   | 1.13        | 28.58 | 1.25  | 31.75 |              |       |         |       |         |       |         |       |         |        | 1.90    | 48.26 |  |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

83723

III

Pyle

26500

5015

Crimp Rear Release Matrix

22992

Class I

Back-

Shells

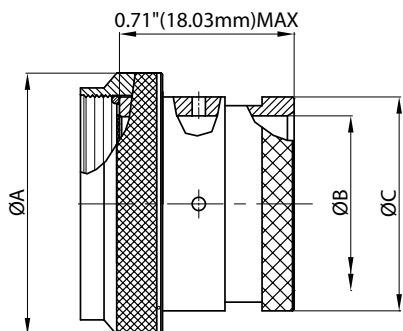
Options

Others

### For Connector Family L

**38999 Series III, IV**

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV



#### MIL Part Number

**M85049 / 69 -11 W D**

MIL Series: M85049 / 69  
Slash Sheet: 69: Straight, Spin Coupling  
-11: Shell Size  
W: Finish  
D: Drain hole Option

Finish: See Table-2 (pg. 486)  
Shell Size: See Table-A

**TABLE-A**

| MIL PART NUMBER DESIGNATOR | CONNECTOR SHELL SIZE/ CODE (REF.) | A DIA. (MAX) |       | B DIA. (MIN) |       | C DIA. (MAX) |       |
|----------------------------|-----------------------------------|--------------|-------|--------------|-------|--------------|-------|
|                            |                                   | INCH         | MM    | INCH         | MM    | INCH         | MM    |
| 9                          | 09 / A                            | 0.75         | 19.05 | 0.25         | 6.35  | 0.53         | 13.54 |
| 11                         | 11 / B                            | 0.85         | 21.59 | 0.38         | 9.53  | 0.61         | 15.37 |
| 13                         | 13 / C                            | 1.00         | 25.40 | 0.50         | 12.70 | 0.77         | 19.66 |
| 15                         | 15 / D                            | 1.15         | 29.21 | 0.63         | 15.88 | 0.84         | 21.29 |
| 17                         | 17 / E                            | 1.25         | 31.75 | 0.75         | 19.05 | 0.94         | 23.77 |
| 19                         | 19 / F                            | 1.40         | 35.56 | 0.81         | 20.62 | 1.04         | 26.47 |
| 21                         | 21 / G                            | 1.55         | 39.37 | 0.94         | 23.80 | 1.22         | 30.91 |
| 23                         | 23 / H                            | 1.65         | 41.91 | 1.06         | 26.97 | 1.36         | 34.42 |
| 25                         | 25 / J                            | 1.85         | 46.99 | 1.19         | 30.18 | 1.44         | 36.65 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

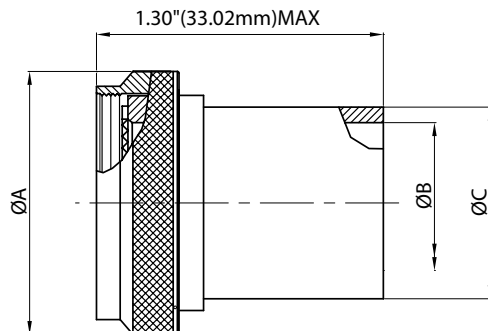
## Crimp Ring Adapter

### Straight, Spin Coupling without Ring

### For Connector Family L

#### 38999 Series III, IV

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV



#### MIL Part Number

**M85049 / 20 -11 W**

MIL Series

Slash Sheet:

20: Straight,  
Spin Coupling  
Adapter without ring

Finish:  
See Table-2  
(pg. 486)

Shell Size:  
See Table-A

Refer to page 544 for ordering details of Ring.

TABLE – A

| MIL PART NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE/<br>CODE (REF.) | A DIA.(MAX) |       | B DIA.(MAX) |       | C DIA.(MAX) |       |
|-------------------------------|-----------------------------------------|-------------|-------|-------------|-------|-------------|-------|
|                               |                                         | INCH        | MM    | INCH        | MM    | INCH        | MM    |
| 9                             | 9 / A                                   | 0.75        | 19.05 | 0.27        | 6.73  | 0.35        | 8.81  |
| 11                            | 11 / B                                  | 0.85        | 21.59 | 0.34        | 8.71  | 0.50        | 12.65 |
| 13                            | 13 / C                                  | 1.00        | 25.40 | 0.44        | 11.10 | 0.51        | 12.95 |
| 15                            | 15 / D                                  | 1.10        | 27.94 | 0.56        | 14.27 | 0.63        | 16.00 |
| 17                            | 17 / E                                  | 1.25        | 31.75 | 0.69        | 17.45 | 0.76        | 19.30 |
| 19                            | 19 / F                                  | 1.40        | 35.56 | 0.81        | 20.62 | 0.89        | 22.61 |
| 21                            | 21 / G                                  | 1.50        | 38.10 | 0.94        | 23.80 | 1.01        | 25.65 |
| 23                            | 23 / H                                  | 1.65        | 41.91 | 1.05        | 26.57 | 1.13        | 28.70 |
| 25                            | 25 / J                                  | 1.75        | 44.45 | 1.13        | 28.58 | 1.20        | 30.53 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter  
Transient

Matrix 2

26482

Matrix | Pyle

83723

Pyle

26500

Crimp Rear  
Release  
Matrix

5015

Class L

22992

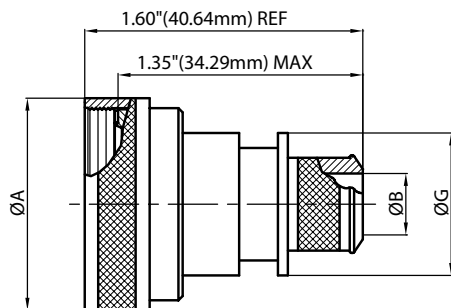
Back-  
Shells

Options  
Others

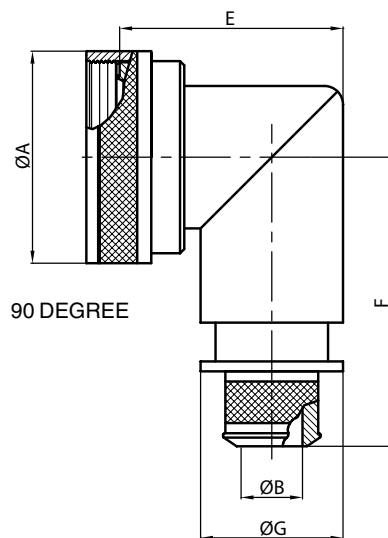
### For Connector Family L

**38999 Series III, IV**

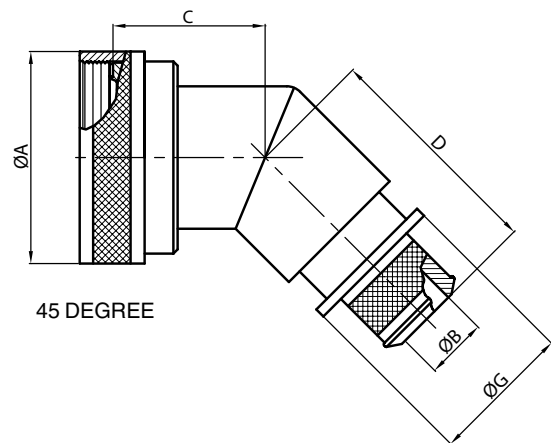
Connector Family "L", includes MIL-DTL-38999 Series III and Series IV



STRAIGHT



90 DEGREE



45 DEGREE

#### MIL Part Number

**M85049 / 88 -11 W 03**

MIL Series

Slash Sheet:

88: Straight, Self-Lock  
90: 90°, Self-Lock  
89: 45°, Self-Lock

Entry Size:  
See Table-A

Finish:  
See Table-2  
(pg. 486)

Shell Size:  
See Table-A

TABLE-A

| TABLE-A                    |            |                                   |              |       |              |             |         |       |         |       |         |       |          |       |       |       |
|----------------------------|------------|-----------------------------------|--------------|-------|--------------|-------------|---------|-------|---------|-------|---------|-------|----------|-------|-------|-------|
| MIL PART NUMBER DESIGNATOR |            | CONNECTOR SHELL SIZE/ CODE (REF.) | A DIA. (MAX) |       | B DIA. (MAX) |             | C (MAX) |       | D (MAX) |       | E (MAX) |       | F (MAX.) |       | G MAX |       |
| CONNECTOR SHELL SIZE       | ENTRY SIZE |                                   |              |       | +0.00 -0.02  | +0.00 -0.50 |         |       |         |       |         |       |          |       |       |       |
|                            |            |                                   | INCH         | MM    | INCH         | MM          | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH     | MM    | INCH  | MM    |
| 9                          | 02         | 09 / A                            | 0.86         | 21.82 | N/A          | N/A         | 1.01    | 25.65 | 1.16    | 29.46 | 1.38    | 34.93 | 1.42     | 35.99 | N/A   | N/A   |
|                            | 03         |                                   |              |       | 0.26         | 6.60        |         |       |         |       |         |       |          |       | 0.56  | 14.22 |
| 11                         | 02         | 11 / B                            | 0.99         | 25.04 | N/A          | N/A         | 1.03    | 26.16 | 1.19    | 30.23 | 1.44    | 36.50 | 1.48     | 37.59 | N/A   | N/A   |
|                            | 03         |                                   |              |       | 0.32         | 8.13        |         |       |         |       |         |       |          |       | 0.63  | 16.00 |
| 13                         | 02         | 13 / C                            | 1.16         | 29.36 | 0.32         | 8.13        | 1.06    | 26.92 | 1.21    | 30.73 | 1.56    | 39.67 | 1.55     | 39.45 | 0.63  | 16.00 |
|                            | 03         |                                   |              |       | 0.45         | 11.43       |         |       |         |       |         |       |          |       | 0.75  | 19.05 |
| 15                         | 02         | 15 / D                            | 1.28         | 32.54 | 0.45         | 11.43       | 1.08    | 27.43 | 1.24    | 31.50 | 1.69    | 42.85 | 1.61     | 41.00 | 0.75  | 19.05 |
|                            | 03         |                                   |              |       | 0.57         | 14.48       |         |       |         |       |         |       |          |       | 0.89  | 22.61 |
| 17                         | 02         | 17 / E                            | 1.41         | 35.71 | 0.51         | 12.95       | 1.11    | 28.19 | 1.26    | 32.00 | 1.75    | 44.45 | 1.68     | 42.62 | 0.82  | 20.83 |
|                            | 03         |                                   |              |       | 0.64         | 16.26       |         |       |         |       |         |       |          |       | 0.95  | 24.13 |
| 19                         | 02         | 19 / F                            | 1.52         | 38.51 | 0.64         | 16.26       | 1.12    | 28.45 | 1.27    | 32.26 | 1.88    | 47.63 | 1.77     | 45.03 | 0.95  | 24.13 |
|                            | 03         |                                   |              |       | 0.76         | 19.30       |         |       |         |       |         |       |          |       | 1.07  | 27.18 |
| 21                         | 02         | 21 / G                            | 1.64         | 41.68 | 0.64         | 16.26       | 1.15    | 29.21 | 1.30    | 33.02 | 1.94    | 49.23 | 1.80     | 45.62 | 0.95  | 24.13 |
|                            | 03         |                                   |              |       | 0.82         | 20.83       |         |       |         |       |         |       |          |       | 1.13  | 28.07 |
| 23                         | 02         | 23 / H                            | 1.77         | 44.86 | 0.70         | 17.78       | 1.17    | 29.72 | 1.33    | 33.78 | 2.06    | 52.37 | 1.86     | 47.22 | 1.02  | 25.99 |
|                            | 03         |                                   |              |       | 0.95         | 24.13       |         |       |         |       |         |       |          |       | 1.26  | 32.00 |
| 25                         | 02         | 25 / J                            | 1.89         | 48.03 | 0.76         | 19.30       | 1.20    | 30.48 | 1.35    | 34.29 | 2.13    | 53.98 | 1.92     | 48.74 | 1.07  | 27.18 |
|                            | 03         |                                   |              |       | 1.01         | 25.65       |         |       |         |       |         |       |          |       | 1.32  | 33.53 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

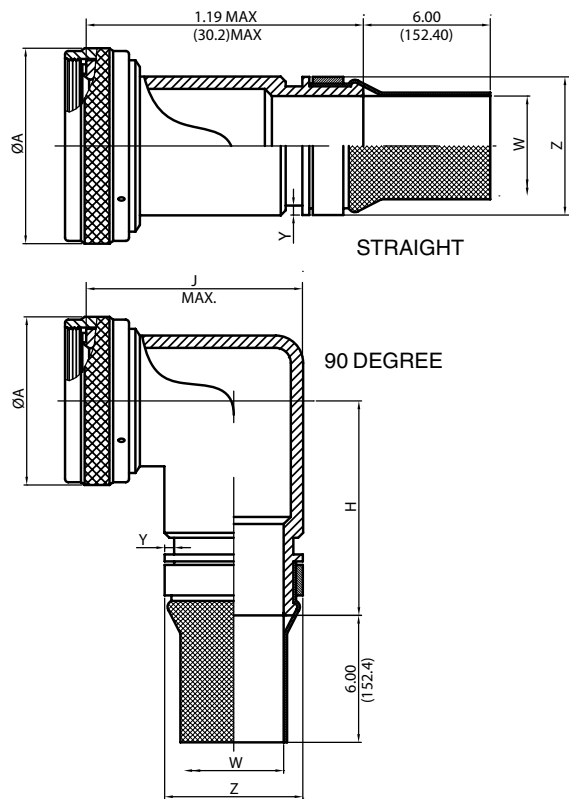
## Pre-Shield Adapter

Straight, 90°, Spin Coupling/Self-Lock with Shield

For Connector Family L

**38999 Series III, IV**

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV



### MIL Part Number

**M85049 / 115 - 11 T W 03 -6 D**

MIL Series: M85049 / 115  
 Slash Sheet: 115: Straight, 117: 90°  
 Coupling: -: Spin Coupling, S: Self-Lock  
 Shell Size: See Table-A  
 Drain Hole Option: D  
 Shield Length: 6 inches min. to 18 inches max. in 1 inch increments (6: 6 inch, 7: 7 inch, so on)  
 Entry Size: See Table-A & B  
 Finish: See Table-2 (pg. 486)  
 Shield Finish: (Material: Copper) K: Nickel, T: Tin

**TABLE - A**

| TABLE – A              |                      |     |                                   |             |       |         |       |         |       |
|------------------------|----------------------|-----|-----------------------------------|-------------|-------|---------|-------|---------|-------|
| PART NUMBER DESIGNATOR |                      |     | CONNECTOR SHELL SIZE/ CODE (REF.) | A DIA.(MAX) |       | H (MAX) |       | J (MAX) |       |
| SHELL SIZE- MIL        | ALLOWABLE ENTRY SIZE |     |                                   | INCH        | MM    | INCH    | MM    | INCH    | MM    |
|                        | MIN                  | MAX |                                   |             |       |         |       |         |       |
| 09                     | -                    | 01  | 9 / A                             | 0.860       | 21.84 | 1.73    | 43.94 | 0.88    | 22.35 |
| 11                     | 01                   | 03  | 11 / B                            | 0.980       | 24.89 | 1.85    | 46.99 | 1.00    | 25.40 |
| 13                     | 01                   | 05  | 13 / C                            | 1.160       | 29.46 | 1.87    | 47.50 | 1.13    | 28.70 |
| 15                     | 03                   | 07  | 15 / D                            | 1.280       | 32.51 | 1.94    | 49.28 | 1.31    | 33.27 |
| 17                     | 05                   | 09  | 17 / E                            | 1.410       | 35.81 | 2.03    | 51.56 | 1.50    | 38.10 |
| 19                     | 06                   | 10  | 19 / F                            | 1.520       | 38.61 | 2.20    | 55.88 | 1.75    | 44.45 |
| 21                     | 08                   | 12  | 21 / G                            | 1.640       | 41.66 | 2.20    | 55.88 | 1.75    | 44.45 |
| 23                     | 09                   | 13  | 23 / H                            | 1.770       | 44.96 | 2.31    | 58.67 | 2.00    | 50.80 |
| 25                     | 10                   | 14  | 25 / J                            | 1.890       | 48.01 | 2.31    | 58.67 | 2.00    | 50.80 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
 All dimensions for reference only.

**TABLE - B**

| ENTRY SIZE | W ±0.020 | W ±0.508 | Y +0.008 -0.000 | Y +0.200 -0.000 | Z MAX | Z MAX |
|------------|----------|----------|-----------------|-----------------|-------|-------|
|            | INCH     | MM       | INCH            | MM              | INCH  | MM    |
| 01         | 0.250    | 6.350    | 0.044           | 1.12            | 0.56  | 14.22 |
| 02         | 0.312    | 7.920    | 0.044           | 1.12            | 0.63  | 16.00 |
| 03         | 0.375    | 9.530    | 0.044           | 1.12            | 0.69  | 17.53 |
| 04         | 0.438    | 11.130   | 0.044           | 1.12            | 0.75  | 19.05 |
| 05         | 0.500    | 12.700   | 0.044           | 1.12            | 0.82  | 20.83 |
| 06         | 0.562    | 14.270   | 0.044           | 1.12            | 0.89  | 22.61 |
| 07         | 0.625    | 15.880   | 0.044           | 1.12            | 0.95  | 24.13 |
| 08         | 0.688    | 17.480   | 0.044           | 1.12            | 1.02  | 25.91 |
| 09         | 0.750    | 19.050   | 0.069           | 1.75            | 1.07  | 27.18 |
| 10         | 0.812    | 20.620   | 0.069           | 1.75            | 1.13  | 28.70 |
| 11         | 0.875    | 22.230   | 0.069           | 1.75            | 1.19  | 30.23 |
| 12         | 0.938    | 23.830   | 0.069           | 1.75            | 1.26  | 32.00 |
| 13         | 1.000    | 25.400   | 0.069           | 1.75            | 1.32  | 33.53 |
| 14         | 1.125    | 28.575   | 0.069           | 1.75            | 1.47  | 37.34 |

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

83723

III

Matrix Pyle

26500

Pyle

5015

Crimp Rear Release Matrix

22992

Class I

Back-

Shells

Options

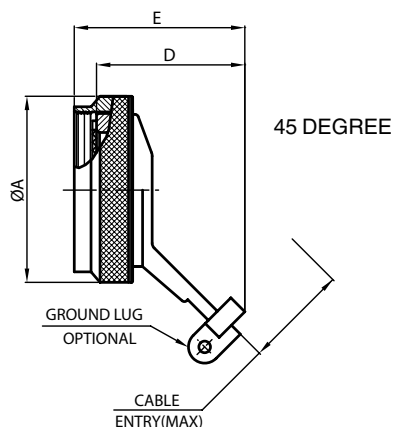
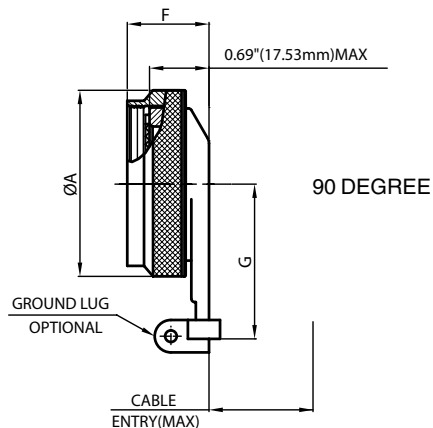
Others



#### For Connector Family L

**38999 Series III, IV**

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV



#### MIL Part Number

**M85049 / 16 - 11 W**

MIL Series

Slash Sheet:

16: 90°

15: 45°

Finish:

See Table-2  
(pg. 486)

Shell Size:  
See Table-A

Coupling:

S: Self-Lock

G: Self-Lock with  
grounding Lug

-: Non Self-Lock

**TABLE - A**

| MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE/<br>CODE (REF.) | A DIA.(MAX) |       | D (MAX) |       | E (MAX) |       | F (MAX) |       | G (MAX) |       | CABLE ENTRY<br>MAX |       |
|----------------------------------|-----------------------------------------|-------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|--------------------|-------|
|                                  |                                         | INCH        | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH               | MM    |
| 9                                | 9 / A                                   | 0.86        | 21.79 | 1.03    | 26.16 | 1.43    | 36.32 | 0.99    | 25.15 | 1.22    | 30.99 | 0.26               | 6.71  |
| 11                               | 11 / B                                  | 0.98        | 24.99 | 1.03    | 26.16 | 1.43    | 36.32 | 0.99    | 25.15 | 1.29    | 32.77 | 0.39               | 9.96  |
| 13                               | 13 / C                                  | 1.16        | 29.39 | 1.03    | 26.16 | 1.43    | 36.32 | 0.99    | 25.15 | 1.62    | 41.15 | 0.51               | 12.85 |
| 15                               | 15 / D                                  | 1.28        | 32.49 | 1.09    | 27.69 | 1.93    | 49.02 | 0.99    | 25.15 | 1.66    | 42.16 | 0.63               | 16.03 |
| 17                               | 17 / E                                  | 1.41        | 35.71 | 1.11    | 28.19 | 1.93    | 49.02 | 0.99    | 25.15 | 1.72    | 43.69 | 0.76               | 19.20 |
| 19                               | 19 / F                                  | 1.52        | 38.51 | 1.21    | 30.73 | 2.03    | 51.56 | 0.99    | 25.15 | 1.72    | 43.69 | 0.85               | 21.46 |
| 21                               | 21 / G                                  | 1.64        | 41.71 | 1.26    | 32.00 | 2.09    | 53.09 | 0.99    | 25.15 | 1.79    | 45.47 | 0.97               | 24.64 |
| 23                               | 23 / H                                  | 1.77        | 44.91 | 1.30    | 33.02 | 2.09    | 53.09 | 0.99    | 25.15 | 1.85    | 46.99 | 1.10               | 27.81 |
| 25                               | 25 / J                                  | 1.89        | 47.98 | 1.34    | 34.04 | 2.24    | 56.90 | 0.99    | 25.15 | 1.91    | 48.51 | 1.22               | 30.99 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

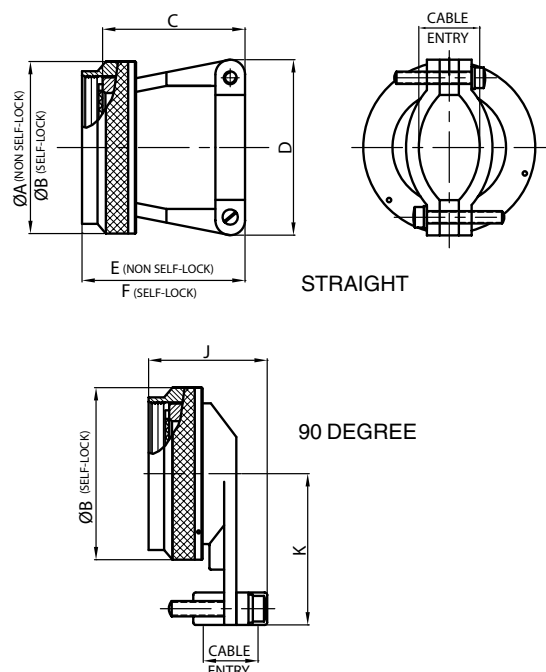
## Strain Relief Clamp

Straight, 90°, Self-Lock/Non Self-Lock

For Connector Family L

### 38999 Series III, IV

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV



### MIL Part Number

**M85049 / 38 - 11 W**

MIL Series

Slash Sheet:

38: Straight

39: 90°

Finish:

See Table-2  
(pg. 486)

Shell Size:

See Table-A

Coupling:

S: Self-Lock

-: Non Self-Lock

TABLE - A

| MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE/<br>CODE (REF.) | A DIA.(MAX) |       | B DIA.(MAX) |       | C (MAX) |       | D (MAX) |       | E (MAX) |       | F (MAX) |       |
|----------------------------------|-----------------------------------------|-------------|-------|-------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
|                                  |                                         | INCH        | MM    | INCH        | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    |
| 09                               | 9 / A                                   | 0.75        | 19.05 | 0.86        | 21.82 | 0.91    | 23.11 | 0.85    | 21.59 | 1.10    | 27.94 | 1.21    | 30.73 |
| 11                               | 11 / B                                  | 0.85        | 21.59 | 0.98        | 24.99 | 0.91    | 23.11 | 0.90    | 22.86 | 1.10    | 27.94 | 1.21    | 30.73 |
| 13                               | 13 / C                                  | 1.00        | 25.40 | 1.16        | 29.36 | 1.01    | 25.65 | 1.10    | 27.94 | 1.20    | 30.48 | 1.31    | 33.27 |
| 15                               | 15 / D                                  | 1.10        | 27.94 | 1.28        | 32.54 | 1.06    | 26.92 | 1.15    | 29.21 | 1.25    | 31.75 | 1.35    | 34.29 |
| 17                               | 17 / E                                  | 1.25        | 31.75 | 1.41        | 35.71 | 1.16    | 29.46 | 1.30    | 33.02 | 1.36    | 34.44 | 1.45    | 36.83 |
| 19                               | 19 / F                                  | 1.40        | 35.56 | 1.52        | 38.51 | 1.41    | 35.81 | 1.50    | 38.10 | 1.60    | 40.64 | 1.71    | 43.43 |
| 21                               | 21 / G                                  | 1.50        | 38.10 | 1.64        | 41.68 | 1.51    | 38.35 | 1.60    | 40.64 | 1.70    | 43.21 | 1.81    | 45.97 |
| 23                               | 23 / H                                  | 1.65        | 41.91 | 1.77        | 44.86 | 1.66    | 42.16 | 1.70    | 43.18 | 1.85    | 46.99 | 1.95    | 49.53 |
| 25                               | 25 / J                                  | 1.75        | 44.45 | 1.89        | 48.03 | 1.76    | 44.70 | 1.80    | 45.72 | 1.95    | 49.56 | 2.05    | 52.07 |

TABLE - A, cont.

| MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE/<br>CODE (REF.) | J (MAX) |       | K (MAX) |       | CABLE ENTRY |       |      |       |
|----------------------------------|-----------------------------------------|---------|-------|---------|-------|-------------|-------|------|-------|
|                                  |                                         | INCH    | MM    | INCH    | MM    | MIN         |       | MAX  |       |
|                                  |                                         |         |       |         |       | INCH        | MM    | INCH | MM    |
| 9                                | 9 / A                                   | 1.31    | 33.27 | 1.00    | 25.40 | 0.10        | 2.49  | 0.23 | 5.94  |
| 11                               | 11 / B                                  | 1.31    | 33.27 | 1.10    | 27.94 | 0.15        | 3.89  | 0.23 | 5.94  |
| 13                               | 13 / C                                  | 1.51    | 38.35 | 1.10    | 27.94 | 0.19        | 4.83  | 0.33 | 8.33  |
| 15                               | 15 / D                                  | 1.55    | 39.37 | 1.25    | 31.75 | 0.26        | 6.60  | 0.46 | 11.61 |
| 17                               | 17 / E                                  | 1.71    | 43.43 | 1.30    | 33.02 | 0.28        | 7.19  | 0.61 | 15.60 |
| 19                               | 19 / F                                  | 1.81    | 45.97 | 1.35    | 34.29 | 0.33        | 8.26  | 0.63 | 16.10 |
| 21                               | 21 / G                                  | 1.95    | 49.53 | 1.60    | 40.64 | 0.34        | 8.71  | 0.70 | 17.73 |
| 23                               | 23 / H                                  | 2.10    | 53.34 | 1.75    | 44.45 | 0.38        | 9.68  | 0.82 | 20.90 |
| 25                               | 25 / J                                  | 2.21    | 56.13 | 1.85    | 46.99 | 0.42        | 10.62 | 0.85 | 21.67 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter  
Transient

Matrix 2

26482

Matrix I Pyle

83723

Pyle

26500

Crimp Rear  
Release  
Matrix

5015

Class 1

22992

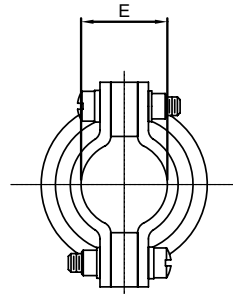
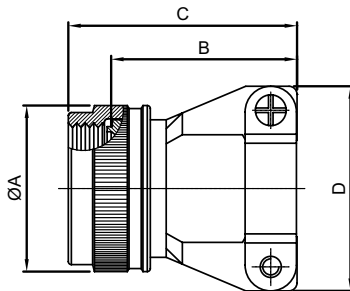
Back-  
Shells

Options  
Others

### For Connector Family L

**38999 Series III, IV**

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV



#### MIL Part Number

**M85049 / 124 - 11 W**

MIL Series

Slash Sheet:

124: Straight

Finish:  
See Table-2  
(pg. 486)

Shell Size:  
See Table-A

Coupling:  
S: Self-Lock  
-: Non Self-Lock

**TABLE - A**

| MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE/<br>CODE (REF.) | A DIA.(MAX) |       | B LENGTH  |             | C (MAX) |       | D (MAX) |       | E (CLOSED) |       |
|----------------------------------|-----------------------------------------|-------------|-------|-----------|-------------|---------|-------|---------|-------|------------|-------|
|                                  |                                         | INCH        | MM    | INCH      | MM          | INCH    | MM    | INCH    | MM    | ±.031      | ±.787 |
| CONNECTOR<br>SHELL SIZE          |                                         |             |       |           |             |         |       |         |       | INCH       | MM    |
| 09                               | 9 / A                                   | 0.86        | 21.79 | 0.77/0.51 | 19.56/12.95 | 1.01    | 25.65 | 0.88    | 22.35 | 0.22       | 5.56  |
| 11                               | 11 / B                                  | 0.98        | 24.99 | 0.89/0.64 | 22.61/16.26 | 1.13    | 28.70 | 0.94    | 23.88 | 0.26       | 6.71  |
| 13                               | 13 / C                                  | 1.16        | 29.39 | 1.01/0.76 | 25.65/19.30 | 1.25    | 31.75 | 1.12    | 28.45 | 0.34       | 8.74  |
| 15                               | 15 / D                                  | 1.28        | 32.49 | 1.01/0.76 | 25.65/19.30 | 1.25    | 31.75 | 1.19    | 30.23 | 0.46       | 11.68 |
| 17                               | 17 / E                                  | 1.41        | 35.71 | 1.13/0.88 | 28.70/22.35 | 1.37    | 34.80 | 1.44    | 36.58 | 0.55       | 13.84 |
| 19                               | 19 / F                                  | 1.52        | 38.51 | 1.38/1.13 | 35.05/28.70 | 1.62    | 41.15 | 1.56    | 39.62 | 0.62       | 15.62 |
| 21                               | 21 / G                                  | 1.64        | 41.71 | 1.51/1.25 | 38.35/31.75 | 1.75    | 44.45 | 1.69    | 42.93 | 0.69       | 17.53 |
| 23                               | 23 / H                                  | 1.77        | 44.91 | 1.62/1.38 | 41.15/35.05 | 1.87    | 47.50 | 1.75    | 44.45 | 0.78       | 19.81 |
| 25                               | 25 / J                                  | 1.87        | 47.47 | 1.76/1.51 | 44.70/38.35 | 2.00    | 50.80 | 1.88    | 47.75 | 0.85       | 21.59 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

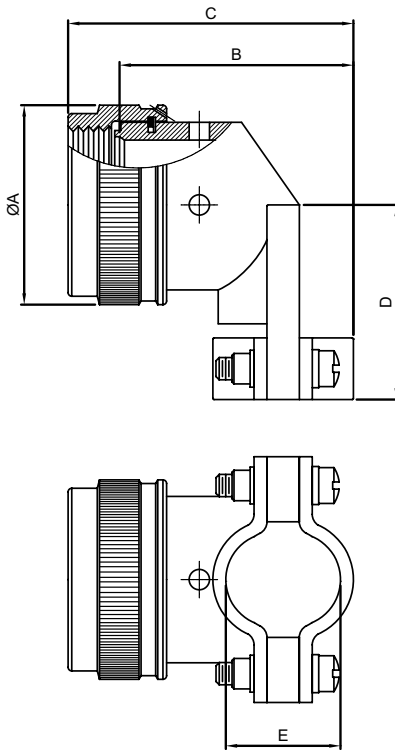
## Strain Relief Clamp

90°, Self-Lock/Non Self-Lock

For Connector Family L

**38999 Series III, IV**

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV



### MIL Part Number

**M85049 / 126 - 11 W**

MIL Series

Slash Sheet:  
126: 90°

Finish:  
See Table-2  
(pg. 486)

Shell Size:  
See Table-A

Coupling:  
S: Self-Lock  
-: Non Self-Lock

**TABLE - A**

| MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE/<br>CODE (REF.) | A DIA.(MAX) |       | B (MAX) |       | C (MAX) |       | D (MAX) |       | E (CLOSED) |       |
|----------------------------------|-----------------------------------------|-------------|-------|---------|-------|---------|-------|---------|-------|------------|-------|
|                                  |                                         |             |       |         |       |         |       |         |       |            |       |
|                                  |                                         | INCH        | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | ±.031      | ±.787 |
| CONNECTOR<br>SHELL SIZE          |                                         |             |       |         |       |         |       |         |       | INCH       | MM    |
| 09                               | 9 / A                                   | 0.86        | 21.79 | 0.86    | 21.84 | 1.14    | 28.96 | 0.81    | 20.57 | 0.22       | 5.56  |
| 11                               | 11 / B                                  | 0.98        | 24.99 | 0.94    | 23.88 | 1.22    | 30.99 | 0.87    | 22.10 | 0.26       | 6.71  |
| 13                               | 13 / C                                  | 1.16        | 29.39 | 1.14    | 28.96 | 1.42    | 36.07 | 0.93    | 23.62 | 0.34       | 8.74  |
| 15                               | 15 / D                                  | 1.28        | 32.49 | 1.20    | 30.48 | 1.48    | 37.59 | 0.99    | 25.15 | 0.46       | 11.68 |
| 17                               | 17 / E                                  | 1.41        | 35.71 | 1.34    | 34.04 | 1.62    | 41.15 | 1.09    | 27.69 | 0.55       | 13.84 |
| 19                               | 19 / F                                  | 1.52        | 38.51 | 1.46    | 37.08 | 1.74    | 44.20 | 1.23    | 31.24 | 0.62       | 15.62 |
| 21                               | 21 / G                                  | 1.64        | 41.71 | 1.58    | 40.13 | 1.86    | 47.24 | 1.30    | 33.02 | 0.70       | 17.73 |
| 23                               | 23 / H                                  | 1.77        | 44.91 | 1.71    | 43.43 | 1.99    | 50.55 | 1.36    | 34.54 | 0.78       | 19.81 |
| 25                               | 25 / J                                  | 1.87        | 47.47 | 1.83    | 46.48 | 2.11    | 53.59 | 1.42    | 36.07 | 0.85       | 21.59 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

**38999**

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

83723

III

Matrix | Pyle

26500

Pyle

5015

Crimp Rear Release Matrix

22992

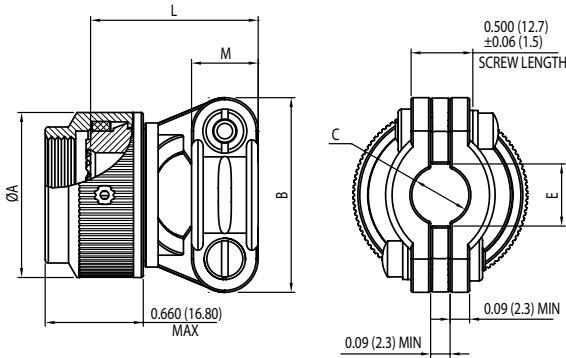
Class I

Back-

Shells

Options

Others



#### MIL Part Number

| BS1         | S                       | R                                | L                | 10          | 99 | 9 | X | T |                                                                                                       |
|-------------|-------------------------|----------------------------------|------------------|-------------|----|---|---|---|-------------------------------------------------------------------------------------------------------|
| Series:     | Angle:                  | Coupling:                        | Connector Group: | Shell Size: |    |   |   |   | Material & Finish:                                                                                    |
| S: Straight | R: Spin<br>S: Self-Lock | MIL-DTL-38999<br>Series III & IV | See Table-A      |             |    |   |   |   | T: Composite, without plating<br>J: Composite, Cadmium Olive Drab<br>M: Composite, Electroless Nickel |
|             |                         |                                  |                  |             |    |   |   |   | Constant: X                                                                                           |
|             |                         |                                  |                  |             |    |   |   |   | Length:                                                                                               |
|             |                         |                                  |                  |             |    |   |   |   | 9: For standard length in Table-A                                                                     |
|             |                         |                                  |                  |             |    |   |   |   | Entry Size:                                                                                           |
|             |                         |                                  |                  |             |    |   |   |   | 99: For standard entry size in Table-A                                                                |

TABLE - A

| MIL PART NUMBER DESIGNATOR | CONNECTOR SHELL SIZE/ CODE (REF.) | A DIA.(MAX) |       | B (MAX) |       | C (MAX) |       | E (MIN) |       | L (MAX) |       | M     |       |
|----------------------------|-----------------------------------|-------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|-------|-------|
|                            |                                   |             |       |         |       |         |       |         |       |         |       |       |       |
|                            |                                   | INCH        | MM    | INCH    | MM    | ±0.031  | ±0.78 | INCH    | MM    | INCH    | MM    | ±0.03 | ±0.76 |
| CONNECTOR SHELL SIZE       |                                   |             |       |         |       |         |       |         |       |         |       |       |       |
| 08                         | 9 / A                             | 0.858       | 21.79 | 0.980   | 24.89 | 0.219   | 5.56  | 0.229   | 5.82  | 0.840   | 21.34 | 0.375 | 9.53  |
| 10                         | 11 / B                            | 0.984       | 24.99 | 1.05    | 26.67 | 0.264   | 6.71  | 0.274   | 6.96  | 0.960   | 24.38 | 0.375 | 9.53  |
| 12                         | 13 / C                            | 1.157       | 29.39 | 1.20    | 30.48 | 0.344   | 8.74  | 0.354   | 8.99  | 1.100   | 27.94 | 0.406 | 10.31 |
| 14                         | 15 / D                            | 1.280       | 32.51 | 1.30    | 33.02 | 0.460   | 11.68 | 0.470   | 11.94 | 1.100   | 27.94 | 0.406 | 10.31 |
| 16                         | 17 / E                            | 1.406       | 35.71 | 1.42    | 36.07 | 0.545   | 13.84 | 0.555   | 14.10 | 1.230   | 31.24 | 0.406 | 10.31 |
| 18                         | 19 / F                            | 1.516       | 38.51 | 1.52    | 38.61 | 0.615   | 15.62 | 0.625   | 15.88 | 1.410   | 35.81 | 0.406 | 10.31 |
| 20                         | 21 / G                            | 1.642       | 41.71 | 1.64    | 41.66 | 0.698   | 17.73 | 0.708   | 17.98 | 1.510   | 38.35 | 0.406 | 10.31 |
| 22                         | 23 / H                            | 1.768       | 44.91 | 1.77    | 44.96 | 0.780   | 19.81 | 0.790   | 20.07 | 1.660   | 42.16 | 0.406 | 10.31 |
| 24                         | 25 / J                            | 1.890       | 48.01 | 1.89    | 48.01 | 0.850   | 21.59 | 0.860   | 21.84 | 1.760   | 44.70 | 0.406 | 10.31 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

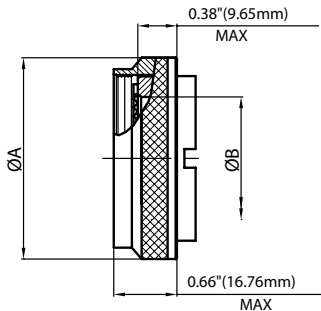
## Grommet Nut

Straight, Self-Lock/Non Self-Lock

For Connector Family L

**38999 Series III, IV**

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV



### MIL Part Number

**M85049 / 14 - 11 W**

MIL Series: M85049 / 14  
 Slash Sheet: 14: Straight  
 Finish: See Table-2 (pg. 486)  
 Shell Size: See Table-A  
 Coupling: S: Self-Lock, -: Non Self-Lock

Note: \* Slot shown in figure is optional for Non Self-Lock

TABLE - A

| MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE/<br>CODE (REF.) | A DIA.(MAX) |       | B (MAX) |       |
|----------------------------------|-----------------------------------------|-------------|-------|---------|-------|
|                                  |                                         | INCH        | MM    | INCH    | MM    |
| 9                                | 09 / A                                  | 0.86        | 21.79 | 0.26    | 6.71  |
| 11                               | 11 / B                                  | 0.98        | 24.99 | 0.39    | 9.91  |
| 13                               | 13 / C                                  | 1.16        | 29.39 | 0.50    | 12.80 |
| 15                               | 15 / D                                  | 1.28        | 32.49 | 0.63    | 16.00 |
| 17                               | 17 / E                                  | 1.41        | 35.71 | 0.76    | 19.20 |
| 19                               | 19 / F                                  | 1.52        | 38.51 | 0.84    | 21.41 |
| 21                               | 21 / G                                  | 1.64        | 41.71 | 0.97    | 24.64 |
| 23                               | 23 / H                                  | 1.77        | 44.91 | 1.09    | 27.71 |
| 25                               | 25 / J                                  | 1.87        | 47.98 | 1.22    | 30.91 |

All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

83723

III

Matrix I Pyle

26500

Pyle

5015

Crimp Rear Release Matrix

22992

Class L

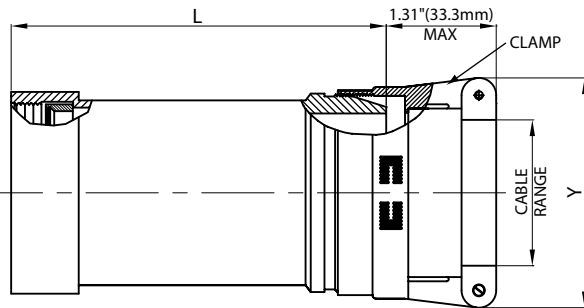
Back-

Shells

Options

Others





#### MIL Part Number

**M85049 / 29 10 W 06 A**

MIL Series: M85049 / 29  
 Slash Sheet: 29: Straight, Direct Coupling  
 Shell Size: 10  
 Clamp Size: W  
 Finish: 06  
 Length: A  
 Length: See Table-A (Omit for "STD")  
 Clamp Size: See Table-A  
 Finish: See Table- 2 (pg. 486)

**TABLE A**

| TABLE A                    |               |        |                                        |             |       |      |       |         |       |         |       |
|----------------------------|---------------|--------|----------------------------------------|-------------|-------|------|-------|---------|-------|---------|-------|
| MIL PART NUMBER DESIGNATOR |               |        | CONNECTOR<br>SHELL SIZE<br>SE – II / I | CABLE RANGE |       |      |       | L (MAX) |       | Y (MAX) |       |
| ACCESSORY<br>SHELL SIZE    | CLAMP<br>SIZE | LENGTH |                                        | MIN         |       | MAX  |       | INCH    | MM    | INCH    | MM    |
|                            |               |        |                                        | INCH        | MM    | INCH | MM    |         |       |         |       |
| 08                         | 01            | STD.   | 8 / 9                                  | 0.06        | 1.57  | 0.13 | 3.18  | 1.03    | 26.16 | 0.78    | 19.81 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56 |         |       |
|                            | 02            | STD.   |                                        | 0.13        | 3.18  | 0.25 | 6.35  | 1.03    | 26.16 | 0.97    | 24.64 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56 |         |       |
| 10                         | 01            | STD.   | 10 / 11                                | 0.06        | 1.57  | 0.13 | 3.18  | 1.03    | 26.16 | 0.78    | 19.81 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56 |         |       |
|                            | 02            | STD.   |                                        | 0.13        | 3.18  | 0.25 | 6.35  | 1.03    | 26.16 | 0.97    | 24.64 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56 |         |       |
|                            | 03            | STD.   |                                        | 0.25        | 6.35  | 0.38 | 9.53  | 1.03    | 26.16 | 1.06    | 26.92 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56 |         |       |
| 12                         | 02            | STD.   | 12 / 13                                | 0.13        | 3.18  | 0.25 | 6.35  | 1.03    | 26.16 | 0.97    | 24.64 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56 |         |       |
|                            | 03            | STD.   |                                        | 0.25        | 6.35  | 0.38 | 9.53  | 1.03    | 26.16 | 1.06    | 26.92 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56 |         |       |
|                            | 04            | STD.   |                                        | 0.31        | 7.92  | 0.50 | 12.70 | 1.03    | 26.16 | 1.16    | 29.46 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56 |         |       |
| 14                         | 02            | STD.   | 14 / 15                                | 0.13        | 3.18  | 0.25 | 6.35  | 1.03    | 26.16 | 0.97    | 24.64 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56 |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96 |         |       |
|                            | 03            | STD.   |                                        | 0.25        | 6.35  | 0.38 | 9.53  | 1.03    | 26.16 | 1.06    | 26.92 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56 |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96 |         |       |
|                            | 04            | STD.   |                                        | 0.31        | 7.92  | 0.50 | 12.70 | 1.03    | 26.16 | 1.16    | 29.46 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56 |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96 |         |       |
|                            | 05            | STD.   |                                        | 0.44        | 11.10 | 0.63 | 15.88 | 1.03    | 26.16 | 1.25    | 31.75 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56 |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96 |         |       |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
 All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

### For Connector Family K

**38999 Series II**
**38999 Series I**

 Connector Family "K", includes  
MIL-DTL-38999 Series II and Series I

**TABLE A**

| TABLE A                    |               |        |                                        |             |       |      |       |         |        |         |       |
|----------------------------|---------------|--------|----------------------------------------|-------------|-------|------|-------|---------|--------|---------|-------|
| MIL PART NUMBER DESIGNATOR |               |        | CONNECTOR<br>SHELL SIZE<br>SE – II / I | CABLE RANGE |       |      |       | L (MAX) |        | Y (MAX) |       |
| ACCESSORY<br>SHELL SIZE    | CLAMP<br>SIZE | LENGTH |                                        | MIN         |       | MAX  |       | INCH    | MM     | INCH    | MM    |
|                            |               |        |                                        | INCH        | MM    | INCH | MM    |         |        |         |       |
| 16                         | 02            | STD.   | 16 / 17                                | 0.13        | 3.18  | 0.25 | 6.35  | 1.03    | 26.16  | 0.97    | 24.64 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            | 03            | STD.   |                                        | 0.25        | 6.35  | 0.38 | 9.53  | 1.03    | 26.16  | 1.06    | 26.92 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            | 04            | STD.   |                                        | 0.31        | 7.92  | 0.50 | 12.70 | 1.03    | 26.16  | 1.16    | 29.46 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            | 05            | STD.   |                                        | 0.44        | 11.10 | 0.63 | 15.88 | 1.03    | 26.16  | 1.25    | 31.75 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            | 06            | STD.   |                                        | 0.56        | 14.27 | 0.75 | 19.05 | 1.03    | 26.16  | 1.38    | 35.05 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
| 18                         | 03            | STD.   | 18 / 19                                | 0.25        | 6.35  | 0.38 | 9.53  | 1.03    | 26.16  | 1.06    | 26.92 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            | 04            | STD.   |                                        | 0.31        | 7.92  | 0.50 | 12.70 | 1.03    | 26.16  | 1.16    | 29.46 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            | 05            | STD.   |                                        | 0.44        | 11.10 | 0.63 | 15.88 | 1.03    | 26.16  | 1.25    | 31.75 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            | 06            | STD.   |                                        | 0.56        | 14.27 | 0.75 | 19.05 | 1.03    | 26.16  | 1.38    | 35.05 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            | 07            | STD.   |                                        | 0.69        | 17.45 | 0.88 | 22.23 | 1.03    | 26.16  | 1.50    | 38.10 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
| 20                         | 03            | STD.   | 20 / 21                                | 0.25        | 6.35  | 0.38 | 9.53  | 1.03    | 26.16  | 1.06    | 26.92 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |
|                            | 04            | STD.   |                                        | 0.31        | 7.92  | 0.50 | 12.70 | 1.03    | 26.16  | 1.16    | 29.46 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |
|                            | 05            | STD.   |                                        | 0.44        | 11.10 | 0.63 | 15.88 | 1.03    | 26.16  | 1.25    | 31.75 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |
|                            | 06            | STD.   |                                        | 0.56        | 14.27 | 0.75 | 19.05 | 1.03    | 26.16  | 1.38    | 35.05 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |
|                            | 07            | STD.   |                                        | 0.69        | 17.45 | 0.88 | 22.23 | 1.03    | 26.16  | 1.50    | 38.10 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |
|                            | 08            | STD.   |                                        | 0.81        | 20.62 | 1.00 | 25.40 | 1.03    | 26.16  | 1.63    | 41.40 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |

 Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
 All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

**38999**

III

HD

Duallok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

83723

III

Pyle

26500

5015

Crimp Rear

Release

Matrix

Class 1

22992

Back-

Shells

Options

Others

#### For Connector Family K

**38999 Series II**
**38999 Series I**

Connector Family "K", includes MIL-DTL-38999 Series II and Series I

| TABLE A                    |               |        |                                        |             |       |      |       |         |        |         |       |
|----------------------------|---------------|--------|----------------------------------------|-------------|-------|------|-------|---------|--------|---------|-------|
| MIL PART NUMBER DESIGNATOR |               |        | CONNECTOR<br>SHELL SIZE<br>SE – II / I | CABLE RANGE |       |      |       | L (MAX) |        | Y (MAX) |       |
| ACCESSORY<br>SHELL SIZE    | CLAMP<br>SIZE | LENGTH |                                        | MIN         |       | MAX  |       | INCH    | MM     | INCH    | MM    |
|                            |               |        |                                        | INCH        | MM    | INCH | MM    |         |        |         |       |
| 22                         | 03            | STD.   | 22 / 23                                | 0.25        | 6.35  | 0.38 | 9.53  | 1.03    | 26.16  | 1.06    | 26.92 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |
|                            | 04            | STD.   |                                        | 0.31        | 7.92  | 0.50 | 12.70 | 1.03    | 26.16  | 1.16    | 29.46 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |
|                            | 05            | STD.   |                                        | 0.44        | 11.10 | 0.63 | 15.88 | 1.03    | 26.16  | 1.25    | 31.75 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |
|                            | 06            | STD.   |                                        | 0.56        | 14.27 | 0.75 | 19.05 | 1.03    | 26.16  | 1.38    | 35.05 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |
|                            | 07            | STD.   |                                        | 0.69        | 17.45 | 0.88 | 22.23 | 1.03    | 26.16  | 1.50    | 38.10 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |
|                            | 08            | STD.   |                                        | 0.81        | 20.62 | 1.00 | 25.40 | 1.03    | 26.16  | 1.63    | 41.40 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |
|                            | 09            | STD.   |                                        | 0.94        | 23.80 | 1.13 | 28.58 | 1.03    | 26.16  | 1.75    | 44.45 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |
| 24                         | 04            | STD.   | 24 / 25                                | 0.31        | 7.92  | 0.50 | 12.70 | 1.03    | 26.16  | 1.16    | 29.46 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |
|                            | 05            | STD.   |                                        | 0.44        | 11.10 | 0.63 | 15.88 | 1.03    | 26.16  | 1.25    | 31.75 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |
|                            | 06            | STD.   |                                        | 0.56        | 14.27 | 0.75 | 19.05 | 1.03    | 26.16  | 1.38    | 35.05 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |
|                            | 07            | STD.   |                                        | 0.69        | 17.45 | 0.88 | 22.23 | 1.03    | 26.16  | 1.50    | 38.10 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |
|                            | 08            | STD.   |                                        | 0.81        | 20.62 | 1.00 | 25.40 | 1.03    | 26.16  | 1.63    | 41.40 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |
|                            | 09            | STD.   |                                        | 0.94        | 23.80 | 1.13 | 28.58 | 1.03    | 26.16  | 1.75    | 44.45 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |
|                            | 10            | STD.   |                                        | 1.06        | 26.97 | 1.25 | 31.75 | 1.03    | 26.16  | 1.88    | 47.75 |
|                            |               | A      |                                        |             |       |      |       | 2.03    | 51.56  |         |       |
|                            |               | B      |                                        |             |       |      |       | 3.03    | 76.96  |         |       |
|                            |               | C      |                                        |             |       |      |       | 4.03    | 102.36 |         |       |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

# Non-Environmental EMI/RFI Backshell

Straight, Direct Coupling

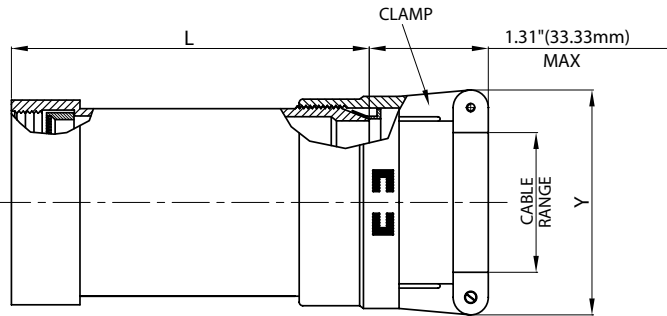
Amphenol

For Connector Family K

38999 Series II

38999 Series I

Connector Family "K", includes  
MIL-DTL-38999 Series II and Series I



### MIL Part Number

M85049 / 36 10 W 03 A

MIL Series  
Slash Sheet:  
36: Straight, Direct  
Coupling  
Shell Size  
See Table-A  
Length  
See Table-A  
(Omit for "STD")  
Clamp Size:  
See Table-A  
Finish:  
See Table-2  
(pg. 486)

TABLE-A

| TABLE-A                    |               |                |                                        |             |       |      |       |         |       |         |       |
|----------------------------|---------------|----------------|----------------------------------------|-------------|-------|------|-------|---------|-------|---------|-------|
| MIL PART NUMBER DESIGNATOR |               |                | CONNECTOR<br>SHELL SIZE<br>SE – II / I | CABLE RANGE |       |      |       | L (MAX) |       | Y (MAX) |       |
| ACCESSORY<br>SHELL SIZE    | CLAMP<br>SIZE | LENGTH<br>CODE |                                        | MIN         |       | MAX  |       | INCH    | MM    | INCH    | MM    |
|                            |               |                |                                        | INCH        | MM    | INCH | MM    |         |       |         |       |
| 08                         | 01            | STD.           | 8 / 9                                  | 0.06        | 1.57  | 0.13 | 3.18  | 1.53    | 38.86 | 0.78    | 19.81 |
|                            |               | A              |                                        |             |       |      |       | 2.53    | 64.26 |         |       |
|                            | 02            | STD.           |                                        | 0.13        | 3.18  | 0.25 | 6.35  | 1.53    | 38.86 | 0.97    | 24.64 |
|                            |               | A              |                                        |             |       |      |       | 2.53    | 64.26 |         |       |
| 10                         | 01            | STD.           | 10 / 11                                | 0.06        | 1.57  | 0.13 | 3.18  | 1.53    | 38.86 | 0.78    | 19.81 |
|                            |               | A              |                                        |             |       |      |       | 2.53    | 64.26 |         |       |
|                            | 02            | STD.           |                                        | 0.13        | 3.18  | 0.25 | 6.35  | 1.53    | 38.86 | 0.97    | 24.64 |
|                            |               | A              |                                        |             |       |      |       | 2.53    | 64.26 |         |       |
|                            | 03            | STD.           |                                        | 0.25        | 6.35  | 0.38 | 9.53  | 1.53    | 38.86 | 1.06    | 26.92 |
|                            |               | A              |                                        |             |       |      |       | 2.53    | 64.26 |         |       |
| 12                         | 02            | STD.           | 12 / 13                                | 0.13        | 3.18  | 0.25 | 6.35  | 1.53    | 38.86 | 0.97    | 24.64 |
|                            |               | A              |                                        |             |       |      |       | 2.53    | 64.26 |         |       |
|                            | 03            | STD.           |                                        | 0.25        | 6.35  | 0.38 | 9.53  | 1.53    | 38.86 | 1.06    | 26.92 |
|                            |               | A              |                                        |             |       |      |       | 2.53    | 64.26 |         |       |
|                            | 04            | STD.           |                                        | 0.31        | 7.92  | 0.50 | 12.70 | 1.53    | 38.86 | 1.16    | 29.46 |
|                            |               | A              |                                        |             |       |      |       | 2.53    | 64.26 |         |       |
| 14                         | 02            | STD.           | 14 / 15                                | 0.13        | 3.18  | 0.25 | 6.35  | 1.53    | 38.86 | 0.97    | 24.64 |
|                            |               | A              |                                        |             |       |      |       | 2.53    | 64.26 |         |       |
|                            |               | B              |                                        |             |       |      |       | 3.53    | 89.66 |         |       |
|                            | 03            | STD.           |                                        | 0.25        | 6.35  | 0.38 | 9.53  | 1.53    | 38.86 | 1.06    | 26.92 |
|                            |               | A              |                                        |             |       |      |       | 2.53    | 64.26 |         |       |
|                            |               | B              |                                        |             |       |      |       | 3.53    | 89.66 |         |       |
|                            | 04            | STD.           |                                        | 0.31        | 7.92  | 0.50 | 12.70 | 1.53    | 38.86 | 1.16    | 29.46 |
|                            |               | A              |                                        |             |       |      |       | 2.53    | 64.26 |         |       |
|                            |               | B              |                                        |             |       |      |       | 3.53    | 89.66 |         |       |
|                            | 05            | STD.           |                                        | 0.44        | 11.10 | 0.63 | 15.88 | 1.53    | 38.86 | 1.25    | 31.75 |
|                            |               | A              |                                        |             |       |      |       | 2.53    | 64.26 |         |       |
|                            |               | B              |                                        |             |       |      |       | 3.53    | 89.66 |         |       |
| 16                         | 02            | STD.           | 16 / 17                                | 0.13        | 3.18  | 0.25 | 6.35  | 1.53    | 38.86 | 0.97    | 24.64 |
|                            |               | A              |                                        |             |       |      |       | 2.53    | 64.26 |         |       |
|                            |               | B              |                                        |             |       |      |       | 3.53    | 89.66 |         |       |
|                            | 03            | STD.           |                                        | 0.25        | 6.35  | 0.38 | 9.53  | 1.53    | 38.86 | 1.06    | 26.92 |
|                            |               | A              |                                        |             |       |      |       | 2.53    | 64.26 |         |       |
|                            |               | B              |                                        |             |       |      |       | 3.53    | 89.66 |         |       |
|                            | 04            | STD.           |                                        | 0.31        | 7.92  | 0.50 | 12.70 | 1.53    | 38.86 | 1.16    | 29.46 |
|                            |               | A              |                                        |             |       |      |       | 2.53    | 64.26 |         |       |
|                            |               | B              |                                        |             |       |      |       | 3.53    | 89.66 |         |       |
|                            | 05            | STD.           |                                        | 0.44        | 11.10 | 0.63 | 15.88 | 1.53    | 38.86 | 1.25    | 31.75 |
|                            |               | A              |                                        |             |       |      |       | 2.53    | 64.26 |         |       |
|                            |               | B              |                                        |             |       |      |       | 3.53    | 89.66 |         |       |
| 06                         | STD.          | 0.56           | 14.27                                  | 0.75        | 19.05 | 1.53 | 38.86 | 1.38    | 35.05 |         |       |
|                            | A             |                |                                        |             |       | 2.53 | 64.26 |         |       |         |       |
|                            | B             |                |                                        |             |       | 3.53 | 89.66 |         |       |         |       |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

26482

Matrix 2

83723

III

Matrix 1 Pyle

26500

Pyle

5015

Crimp Rear Release Matrix

22992

Class 1

Back-

Shells

Options

Others

#### For Connector Family K

38999 Series II

38999 Series I

Connector Family "K", includes MIL-DTL-38999 Series II and Series I

| TABLE-A, cont.             |               |                |                                        |             |         |      |       |         |        |         |       |
|----------------------------|---------------|----------------|----------------------------------------|-------------|---------|------|-------|---------|--------|---------|-------|
| MIL PART NUMBER DESIGNATOR |               |                | CONNECTOR<br>SHELL SIZE<br>SE – II / I | CABLE RANGE |         |      |       | L (MAX) |        | Y (MAX) |       |
| ACCESSORY<br>SHELL SIZE    | CLAMP<br>SIZE | LENGTH<br>CODE |                                        | MIN         |         | MAX  |       | INCH    | MM     | INCH    | MM    |
|                            |               |                |                                        | INCH        | MM      | INCH | MM    |         |        |         |       |
| 18                         | 03            | STD.           | 18 / 19                                | 0.25        | 6.35    | 0.38 | 9.53  | 1.53    | 38.86  | 1.06    | 26.92 |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |       |
|                            | 04            | STD.           |                                        | 0.31        | 7.92    | 0.50 | 12.70 | 1.53    | 38.86  | 1.16    | 29.46 |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |       |
|                            | 05            | STD.           |                                        | 0.44        | 11.10   | 0.63 | 15.88 | 1.53    | 38.86  | 1.25    | 31.75 |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |       |
|                            | 06            | STD.           |                                        | 0.56        | 14.27   | 0.75 | 19.05 | 1.53    | 38.86  | 1.38    | 35.05 |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |       |
|                            | 07            | STD.           |                                        | 0.69        | 17.45   | 0.88 | 22.23 | 1.53    | 38.86  | 1.50    | 38.10 |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |       |
|                            | 20            | 03             |                                        | STD.        | 20 / 21 | 0.25 | 6.35  | 0.38    | 9.53   | 1.53    | 38.86 |
| A                          |               |                | 2.53                                   | 64.26       |         |      |       |         |        |         |       |
| B                          |               |                | 3.53                                   | 89.66       |         |      |       |         |        |         |       |
| C                          |               |                | 4.53                                   | 115.06      |         |      |       |         |        |         |       |
| 04                         |               | STD.           | 0.31                                   | 7.92        |         | 0.50 | 12.70 | 1.53    | 38.86  | 1.16    | 29.46 |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |       |
|                            |               | C              |                                        |             |         |      |       | 4.53    | 115.06 |         |       |
| 05                         |               | STD.           | 0.44                                   | 11.10       |         | 0.63 | 15.88 | 1.53    | 38.86  | 1.25    | 31.75 |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |       |
|                            |               | C              |                                        |             |         |      |       | 4.53    | 115.06 |         |       |
| 06                         |               | STD.           | 0.56                                   | 14.27       |         | 0.75 | 19.05 | 1.53    | 38.86  | 1.38    | 35.05 |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |       |
|                            |               | C              |                                        |             |         |      |       | 4.53    | 115.06 |         |       |
| 07                         |               | STD.           | 0.69                                   | 17.45       |         | 0.88 | 22.23 | 1.53    | 38.86  | 1.50    | 38.10 |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |       |
|                            |               | C              |                                        |             |         |      |       | 4.53    | 115.06 |         |       |
| 08                         |               | STD.           | 0.81                                   | 20.62       |         | 1.00 | 25.40 | 1.53    | 38.86  | 1.63    | 41.40 |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |       |
|                            |               | C              |                                        |             |         |      |       | 4.53    | 115.06 |         |       |

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All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

### For Connector Family K

**38999 Series II**
**38999 Series I**

 Connector Family "K", includes  
MIL-DTL-38999 Series II and Series I

**TABLE-A, cont.**

| TABLE-A, cont.             |               |                |                                        |             |         |      |       |         |        |         |        |      |       |
|----------------------------|---------------|----------------|----------------------------------------|-------------|---------|------|-------|---------|--------|---------|--------|------|-------|
| MIL PART NUMBER DESIGNATOR |               |                | CONNECTOR<br>SHELL SIZE<br>SE – II / I | CABLE RANGE |         |      |       | L (MAX) |        | Y (MAX) |        |      |       |
| ACCESSORY<br>SHELL SIZE    | CLAMP<br>SIZE | LENGTH<br>CODE |                                        | MIN         |         | MAX  |       | INCH    | MM     | INCH    | MM     |      |       |
|                            |               |                |                                        | INCH        | MM      | INCH | MM    |         |        |         |        |      |       |
| 22                         | 03            | STD.           | 22 /23                                 | 0.25        | 6.35    | 0.38 | 9.53  | 1.53    | 38.86  | 1.06    | 26.92  |      |       |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |        |      |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |        |      |       |
|                            |               | C              |                                        |             |         |      |       | 4.53    | 115.06 |         |        |      |       |
|                            | 04            | STD.           |                                        | 0.31        | 7.92    | 0.50 | 12.70 | 1.53    | 38.86  | 1.16    | 29.46  |      |       |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |        |      |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |        |      |       |
|                            |               | C              |                                        |             |         |      |       | 4.53    | 115.06 |         |        |      |       |
|                            | 05            | STD.           |                                        | 0.44        | 11.10   | 0.63 | 15.88 | 1.53    | 38.86  | 1.25    | 31.75  |      |       |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |        |      |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |        |      |       |
|                            |               | C              |                                        |             |         |      |       | 4.53    | 115.06 |         |        |      |       |
|                            | 06            | STD.           |                                        | 0.56        | 14.27   | 0.75 | 19.05 | 1.53    | 38.86  | 1.38    | 35.05  |      |       |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |        |      |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |        |      |       |
|                            |               | C              |                                        |             |         |      |       | 4.53    | 115.06 |         |        |      |       |
|                            | 07            | STD.           |                                        | 0.69        | 17.45   | 0.88 | 22.23 | 1.53    | 38.86  | 1.50    | 38.10  |      |       |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |        |      |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |        |      |       |
|                            |               | C              |                                        |             |         |      |       | 4.53    | 115.06 |         |        |      |       |
|                            | 08            | STD.           |                                        | 0.81        | 20.62   | 1.00 | 25.40 | 1.53    | 38.86  | 1.63    | 41.40  |      |       |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |        |      |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |        |      |       |
|                            |               | C              |                                        |             |         |      |       | 4.53    | 115.06 |         |        |      |       |
|                            | 09            | STD.           |                                        | 0.94        | 23.80   | 1.13 | 28.58 | 1.53    | 38.86  | 1.75    | 44.45  |      |       |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |        |      |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |        |      |       |
|                            |               | C              |                                        |             |         |      |       | 4.53    | 115.06 |         |        |      |       |
|                            | 24            | 04             |                                        | STD.        | 24 / 25 | 0.31 | 7.92  | 0.50    | 12.70  | 1.53    | 38.86  | 1.16 | 29.46 |
|                            |               |                |                                        | A           |         |      |       |         |        | 2.53    | 64.26  |      |       |
|                            |               |                |                                        | B           |         |      |       |         |        | 3.53    | 89.66  |      |       |
|                            |               |                |                                        | C           |         |      |       |         |        | 4.53    | 115.06 |      |       |
| 05                         |               | STD.           | 0.44                                   | 11.10       |         | 0.63 | 15.88 | 1.53    | 38.86  | 1.25    | 31.75  |      |       |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |        |      |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |        |      |       |
|                            |               | C              |                                        |             |         |      |       | 4.53    | 115.06 |         |        |      |       |
| 06                         |               | STD.           | 0.56                                   | 14.27       |         | 0.75 | 19.05 | 1.53    | 38.86  | 1.38    | 35.05  |      |       |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |        |      |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |        |      |       |
|                            |               | C              |                                        |             |         |      |       | 4.53    | 115.06 |         |        |      |       |
| 07                         |               | STD.           | 0.69                                   | 17.45       |         | 0.88 | 22.23 | 1.53    | 38.86  | 1.50    | 38.10  |      |       |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |        |      |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |        |      |       |
|                            |               | C              |                                        |             |         |      |       | 4.53    | 115.06 |         |        |      |       |
| 08                         |               | STD.           | 0.81                                   | 20.62       |         | 1.00 | 25.40 | 1.53    | 38.86  | 1.63    | 41.40  |      |       |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |        |      |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |        |      |       |
|                            |               | C              |                                        |             |         |      |       | 4.53    | 115.06 |         |        |      |       |
| 09                         |               | STD.           | 0.94                                   | 23.80       |         | 1.13 | 28.58 | 1.53    | 38.86  | 1.75    | 44.45  |      |       |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |        |      |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |        |      |       |
|                            |               | C              |                                        |             |         |      |       | 4.53    | 115.06 |         |        |      |       |
| 10                         |               | STD.           | 1.06                                   | 26.97       |         | 1.25 | 31.75 | 1.53    | 38.86  | 1.88    | 47.75  |      |       |
|                            |               | A              |                                        |             |         |      |       | 2.53    | 64.26  |         |        |      |       |
|                            |               | B              |                                        |             |         |      |       | 3.53    | 89.66  |         |        |      |       |
|                            |               | C              |                                        |             |         |      |       | 4.53    | 115.06 |         |        |      |       |

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All dimensions for reference only.

**38999**

 III  
HD  
Dualok  
II  
I  
SJT  
Accessories  
Aquacon  
Herm/Seal  
PCB

 High Speed  
Fiber  
Optics  
Contacts

 EMI Filter  
Transient

 Matrix 2  
26482

 Matrix I Pyle  
83723  
III

 Pyle  
26500

 Crimp Rear  
Release  
Matrix  
5015

 Class I  
22992

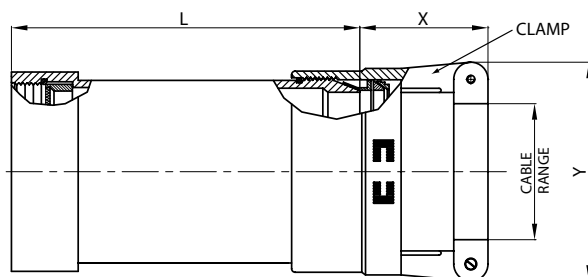
 Back-  
Shells

 Options  
Others

38999 Series II

38999 Series I

Connector Family "K", includes MIL-DTL-38999 Series II and Series I



#### MIL Part Number

**M85049 / 17 10 W 03 A**

MIL Series ————  
Slash Sheet: 17: Straight, Direct Coupling  
Shell Size ————  
See Table-A

Length ————  
See Table-A (Omit for "STD")

Clamp Size: ————  
See Table-A

Finish: ————  
See Table-2 (pg. 486)

TABLE - A

| TABLE – A                  |            |        |                                  |             |       |      |       |         |       |         |       |         |       |
|----------------------------|------------|--------|----------------------------------|-------------|-------|------|-------|---------|-------|---------|-------|---------|-------|
| MIL PART NUMBER DESIGNATOR |            | LENGTH | CONNECTOR SHELL SIZE SE – II / I | CABLE RANGE |       |      |       | L (MAX) |       | X (MAX) |       | Y (MAX) |       |
| ACCESSORY SHELL SIZE       | CLAMP SIZE |        |                                  | MIN         |       | MAX  |       | INCH    | MM    | INCH    | MM    | INCH    | MM    |
|                            |            |        |                                  | INCH        | MM    | INCH | MM    |         |       |         |       |         |       |
| 08                         | 01         | STD.   | 8 / 9                            | 0.06        | 1.57  | 0.13 | 3.18  | 1.53    | 38.86 | 1.25    | 31.75 | 0.78    | 19.81 |
|                            |            | A      |                                  |             |       |      |       | 2.53    | 64.26 |         |       |         |       |
|                            | 02         | STD.   |                                  | 0.13        | 3.18  | 0.25 | 6.35  | 1.53    | 38.86 | 1.25    | 31.75 | 0.97    | 24.64 |
|                            |            | A      |                                  |             |       |      |       | 2.53    | 64.26 |         |       |         |       |
| 10                         | 01         | STD.   | 10 / 11                          | 0.06        | 1.57  | 0.13 | 3.18  | 1.53    | 38.86 | 1.25    | 31.75 | 0.78    | 19.81 |
|                            |            | A      |                                  |             |       |      |       | 2.53    | 64.26 |         |       |         |       |
|                            | 02         | STD.   |                                  | 0.13        | 3.18  | 0.25 | 6.35  | 1.53    | 38.86 | 1.25    | 31.75 | 0.97    | 24.64 |
|                            |            | A      |                                  |             |       |      |       | 2.53    | 64.26 |         |       |         |       |
|                            | 03         | STD.   |                                  | 0.25        | 6.35  | 0.38 | 9.53  | 1.53    | 38.86 | 1.25    | 31.75 | 1.06    | 26.92 |
|                            |            | A      |                                  |             |       |      |       | 2.53    | 64.26 |         |       |         |       |
| 12                         | 02         | STD.   | 12 / 13                          | 0.13        | 3.18  | 0.25 | 6.35  | 1.53    | 38.86 | 1.25    | 31.75 | 0.97    | 24.64 |
|                            |            | A      |                                  |             |       |      |       | 2.53    | 64.26 |         |       |         |       |
|                            | 03         | STD.   |                                  | 0.25        | 6.35  | 0.38 | 9.53  | 1.53    | 38.86 | 1.25    | 31.75 | 1.06    | 26.92 |
|                            |            | A      |                                  |             |       |      |       | 2.53    | 64.26 |         |       |         |       |
|                            | 04         | STD.   |                                  | 0.38        | 9.53  | 0.50 | 12.70 | 1.53    | 38.86 | 1.25    | 31.75 | 1.16    | 29.46 |
|                            |            | A      |                                  |             |       |      |       | 2.53    | 64.26 |         |       |         |       |
| 14                         | 02         | STD.   | 14 / 15                          | 0.13        | 3.18  | 0.25 | 6.35  | 1.53    | 38.86 | 1.25    | 31.75 | 0.97    | 24.64 |
|                            |            | A      |                                  |             |       |      |       | 2.53    | 64.26 |         |       |         |       |
|                            |            | B      |                                  |             |       |      |       | 3.53    | 89.66 |         |       |         |       |
|                            | 03         | STD.   |                                  | 0.25        | 6.35  | 0.38 | 9.53  | 1.53    | 38.86 | 1.25    | 31.75 | 1.06    | 26.92 |
|                            |            | A      |                                  |             |       |      |       | 2.53    | 64.26 |         |       |         |       |
|                            |            | B      |                                  |             |       |      |       | 3.53    | 89.66 |         |       |         |       |
|                            | 04         | STD.   |                                  | 0.38        | 9.53  | 0.50 | 12.70 | 1.53    | 38.86 | 1.25    | 31.75 | 1.16    | 29.46 |
|                            |            | A      |                                  |             |       |      |       | 2.53    | 64.26 |         |       |         |       |
|                            |            | B      |                                  |             |       |      |       | 3.53    | 89.66 |         |       |         |       |
|                            | 05         | STD.   |                                  | 0.50        | 12.70 | 0.63 | 15.88 | 1.53    | 38.86 | 1.31    | 33.27 | 1.25    | 31.75 |
|                            |            | A      |                                  |             |       |      |       | 2.53    | 64.26 |         |       |         |       |
|                            |            | B      |                                  |             |       |      |       | 3.53    | 89.66 |         |       |         |       |
| 16                         | 02         | STD.   | 16 / 17                          | 0.13        | 3.18  | 0.25 | 6.35  | 1.53    | 38.86 | 1.25    | 31.75 | 0.97    | 24.64 |
|                            |            | A      |                                  |             |       |      |       | 2.53    | 64.26 |         |       |         |       |
|                            |            | B      |                                  |             |       |      |       | 3.53    | 89.66 |         |       |         |       |
|                            | 03         | STD.   |                                  | 0.25        | 6.35  | 0.38 | 9.53  | 1.53    | 38.86 | 1.25    | 31.75 | 1.06    | 26.92 |
|                            |            | A      |                                  |             |       |      |       | 2.53    | 64.26 |         |       |         |       |
|                            |            | B      |                                  |             |       |      |       | 3.53    | 89.66 |         |       |         |       |
|                            | 04         | STD.   |                                  | 0.38        | 9.53  | 0.50 | 12.70 | 1.53    | 38.86 | 1.25    | 31.75 | 1.16    | 29.46 |
|                            |            | A      |                                  |             |       |      |       | 2.53    | 64.26 |         |       |         |       |
|                            |            | B      |                                  |             |       |      |       | 3.53    | 89.66 |         |       |         |       |
|                            | 05         | STD.   |                                  | 0.50        | 12.70 | 0.63 | 15.88 | 1.53    | 38.86 | 1.31    | 33.27 | 1.25    | 31.75 |
|                            |            | A      |                                  |             |       |      |       | 2.53    | 64.26 |         |       |         |       |
|                            |            | B      |                                  |             |       |      |       | 3.53    | 89.66 |         |       |         |       |
|                            | 06         | STD.   |                                  | 0.63        | 15.88 | 0.75 | 19.05 | 1.53    | 38.86 | 1.38    | 35.05 | 1.38    | 35.05 |
|                            |            | A      |                                  |             |       |      |       | 2.53    | 64.26 |         |       |         |       |
|                            |            | B      |                                  |             |       |      |       | 3.53    | 89.66 |         |       |         |       |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE



### For Connector Family K

**38999 Series II**
**38999 Series I**

 Connector Family "K", includes  
MIL-DTL-38999 Series II and Series I

| TABLE – A, cont.              |               |                                      |        |             |       |      |        |         |        |         |       |         |       |       |       |        |       |       |       |       |
|-------------------------------|---------------|--------------------------------------|--------|-------------|-------|------|--------|---------|--------|---------|-------|---------|-------|-------|-------|--------|-------|-------|-------|-------|
| MIL PART NUMBER<br>DESIGNATOR |               | CONNECTOR<br>SHELL SIZE<br>SE – II/I | LENGTH | CABLE RANGE |       |      |        | L (MAX) |        | X (MAX) |       | Y (MAX) |       |       |       |        |       |       |       |       |
| ACCESSORY<br>SHELL SIZE       | CLAMP<br>SIZE |                                      |        | MIN         |       | MAX  |        | INCH    | MM     | INCH    | MM    | INCH    | MM    |       |       |        |       |       |       |       |
|                               |               |                                      |        | INCH        | MM    | INCH | MM     |         |        |         |       |         |       |       |       |        |       |       |       |       |
| 18                            | 03            | 18 / 19                              | STD.   | 0.25        | 6.35  | 0.38 | 9.53   | 1.53    | 38.86  | 1.25    | 31.75 | 1.06    | 26.92 |       |       |        |       |       |       |       |
|                               |               |                                      | A      |             |       |      |        | 2.53    | 64.26  |         |       |         |       |       |       |        |       |       |       |       |
|                               |               |                                      | B      |             |       |      |        | 3.53    | 89.66  |         |       |         |       |       |       |        |       |       |       |       |
|                               | 04            |                                      | STD.   | 0.38        | 9.53  | 0.50 | 12.70  | 1.53    | 38.86  | 1.25    | 31.75 | 1.16    | 29.46 |       |       |        |       |       |       |       |
|                               |               |                                      | A      |             |       |      |        | 2.53    | 64.26  |         |       |         |       |       |       |        |       |       |       |       |
|                               |               |                                      | B      |             |       |      |        | 3.53    | 89.66  |         |       |         |       |       |       |        |       |       |       |       |
|                               | 05            |                                      | STD.   | 0.50        | 12.70 | 0.63 | 15.88  | 1.53    | 38.86  | 1.31    | 33.27 | 1.25    | 31.75 |       |       |        |       |       |       |       |
|                               |               |                                      | A      |             |       |      |        | 2.53    | 64.26  |         |       |         |       |       |       |        |       |       |       |       |
|                               |               |                                      | B      |             |       |      |        | 3.53    | 89.66  |         |       |         |       |       |       |        |       |       |       |       |
|                               | 06            |                                      | STD.   | 0.63        | 15.88 | 0.75 | 19.05  | 1.53    | 38.86  | 1.38    | 35.05 | 1.38    | 35.05 |       |       |        |       |       |       |       |
|                               |               |                                      | A      |             |       |      |        | 2.53    | 64.26  |         |       |         |       |       |       |        |       |       |       |       |
|                               |               |                                      | B      |             |       |      |        | 3.53    | 89.66  |         |       |         |       |       |       |        |       |       |       |       |
| STD.                          |               | 0.75                                 | 19.05  |             |       |      |        | 0.88    | 22.23  |         |       |         |       | 1.53  | 38.86 | 1.50   | 38.10 | 1.50  | 38.10 |       |
| A                             |               |                                      |        |             |       |      |        |         |        |         |       |         |       | 2.53  | 64.26 |        |       |       |       |       |
| B                             |               |                                      |        |             |       |      |        |         |        |         |       |         |       | 3.53  | 89.66 |        |       |       |       |       |
| 20                            | 03            | 20 / 21                              | STD.   | 0.25        | 6.35  | 0.38 | 9.53   | 1.53    | 38.86  | 1.25    | 31.75 | 1.06    | 26.92 |       |       |        |       |       |       |       |
|                               |               |                                      | A      |             |       |      |        | 2.53    | 64.26  |         |       |         |       |       |       |        |       |       |       |       |
|                               |               |                                      | B      |             |       |      |        | 3.53    | 89.66  |         |       |         |       |       |       |        |       |       |       |       |
|                               |               |                                      | C      |             |       |      |        | 4.53    | 115.06 |         |       |         |       |       |       |        |       |       |       |       |
|                               | 04            |                                      | STD.   | 0.38        | 9.53  | 0.50 | 12.70  | 1.53    | 38.86  | 1.25    | 31.75 | 1.16    | 29.46 |       |       |        |       |       |       |       |
|                               |               |                                      | A      |             |       |      |        | 2.53    | 64.26  |         |       |         |       |       |       |        |       |       |       |       |
|                               |               |                                      | B      |             |       |      |        | 3.53    | 89.66  |         |       |         |       |       |       |        |       |       |       |       |
|                               |               |                                      | C      |             |       |      |        | 4.53    | 115.06 |         |       |         |       |       |       |        |       |       |       |       |
|                               | 05            |                                      | STD.   | 0.50        | 12.70 | 0.63 | 15.88  | 1.53    | 38.86  | 1.31    | 33.27 | 1.25    | 31.75 |       |       |        |       |       |       |       |
|                               |               |                                      | A      |             |       |      |        | 2.53    | 64.26  |         |       |         |       |       |       |        |       |       |       |       |
|                               |               |                                      | B      |             |       |      |        | 3.53    | 89.66  |         |       |         |       |       |       |        |       |       |       |       |
|                               |               |                                      | C      |             |       |      |        | 4.53    | 115.06 |         |       |         |       |       |       |        |       |       |       |       |
| 06                            | STD.          | 0.63                                 | 15.88  | 0.75        | 19.05 | 1.53 | 38.86  | 1.38    | 35.05  | 1.38    | 35.05 |         |       |       |       |        |       |       |       |       |
|                               | A             |                                      |        |             |       | 2.53 | 64.26  |         |        |         |       |         |       |       |       |        |       |       |       |       |
|                               | B             |                                      |        |             |       | 3.53 | 89.66  |         |        |         |       |         |       |       |       |        |       |       |       |       |
|                               | C             |                                      |        |             |       | 4.53 | 115.06 |         |        |         |       |         |       |       |       |        |       |       |       |       |
|                               | 07            |                                      |        |             |       | STD. | 0.75   |         |        |         |       | 19.05   | 0.88  | 22.23 | 1.53  | 38.86  | 1.50  | 38.10 | 1.50  | 38.10 |
|                               |               |                                      |        |             |       | A    |        |         |        |         |       |         |       |       | 2.53  | 64.26  |       |       |       |       |
|                               |               |                                      |        |             |       | B    |        |         |        |         |       |         |       |       | 3.53  | 89.66  |       |       |       |       |
|                               |               |                                      |        |             |       | C    |        |         |        |         |       |         |       |       | 4.53  | 115.06 |       |       |       |       |
| 08                            | STD.          | 0.88                                 | 22.23  | 1.00        | 25.40 | 1.53 | 38.86  | 1.63    | 41.40  | 1.63    | 41.40 |         |       |       |       |        |       |       |       |       |
|                               | A             |                                      |        |             |       | 2.53 | 64.26  |         |        |         |       |         |       |       |       |        |       |       |       |       |
|                               | B             |                                      |        |             |       | 3.53 | 89.66  |         |        |         |       |         |       |       |       |        |       |       |       |       |
|                               | C             |                                      |        |             |       | 4.53 | 115.06 |         |        |         |       |         |       |       |       |        |       |       |       |       |
| 22                            | 03            | 22 / 23                              | STD.   | 0.25        | 6.35  | 0.38 | 9.53   | 1.53    | 38.86  | 1.25    | 31.75 | 1.06    | 26.92 |       |       |        |       |       |       |       |
|                               |               |                                      | A      |             |       |      |        | 2.53    | 64.26  |         |       |         |       |       |       |        |       |       |       |       |
|                               |               |                                      | B      |             |       |      |        | 3.53    | 89.66  |         |       |         |       |       |       |        |       |       |       |       |
|                               |               |                                      | C      |             |       |      |        | 4.53    | 115.06 |         |       |         |       |       |       |        |       |       |       |       |
|                               | 04            |                                      | STD.   | 0.38        | 9.53  | 0.50 | 12.70  | 1.53    | 38.86  | 1.25    | 31.75 | 1.16    | 29.46 |       |       |        |       |       |       |       |
|                               |               |                                      | A      |             |       |      |        | 2.53    | 64.26  |         |       |         |       |       |       |        |       |       |       |       |
|                               |               |                                      | B      |             |       |      |        | 3.53    | 89.66  |         |       |         |       |       |       |        |       |       |       |       |
|                               |               |                                      | C      |             |       |      |        | 4.53    | 115.06 |         |       |         |       |       |       |        |       |       |       |       |
|                               | 05            |                                      | STD.   | 0.50        | 12.70 | 0.63 | 15.88  | 1.53    | 38.86  | 1.31    | 33.27 | 1.25    | 31.75 |       |       |        |       |       |       |       |
|                               |               |                                      | A      |             |       |      |        | 2.53    | 64.26  |         |       |         |       |       |       |        |       |       |       |       |
|                               |               |                                      | B      |             |       |      |        | 3.53    | 89.66  |         |       |         |       |       |       |        |       |       |       |       |
|                               |               |                                      | C      |             |       |      |        | 4.53    | 115.06 |         |       |         |       |       |       |        |       |       |       |       |
| 06                            | STD.          | 0.63                                 | 15.88  | 0.75        | 19.05 | 1.53 | 38.86  | 1.38    | 35.05  | 1.38    | 35.05 |         |       |       |       |        |       |       |       |       |
|                               | A             |                                      |        |             |       | 2.53 | 64.26  |         |        |         |       |         |       |       |       |        |       |       |       |       |
|                               | B             |                                      |        |             |       | 3.53 | 89.66  |         |        |         |       |         |       |       |       |        |       |       |       |       |
|                               | C             |                                      |        |             |       | 4.53 | 115.06 |         |        |         |       |         |       |       |       |        |       |       |       |       |

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All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

**38999**

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

 High Speed  
Fiber  
Optics  
Contacts

 EMI Filter  
Transient

 Matrix 2  
26482

 Matrix I Pyle  
83723  
III

 Pyle  
26500

 Crimp Rear  
Release  
Matrix  
5015

 Class I  
22992

 Back-  
Shells

 Options  
Others

### For Connector Family K

38999 Series II

38999 Series I

Connector Family "K", includes MIL-DTL-38999 Series II and Series I

| TABLE – A, cont.           |            |                                  |        |             |       |      |       |         |        |         |       |         |       |
|----------------------------|------------|----------------------------------|--------|-------------|-------|------|-------|---------|--------|---------|-------|---------|-------|
| MIL PART NUMBER DESIGNATOR |            | CONNECTOR SHELL SIZE SE – II / I | LENGTH | CABLE RANGE |       |      |       | L (MAX) |        | X (MAX) |       | Y (MAX) |       |
| ACCESSORY SHELL SIZE       | CLAMP SIZE |                                  |        | MIN         |       | MAX  |       | INCH    | MM     | INCH    | MM    | INCH    | MM    |
|                            |            |                                  |        | INCH        | MM    | INCH | MM    |         |        |         |       |         |       |
| 22, cont.                  | 07         | 22 / 23                          | STD.   | 0.75        | 19.05 | 0.88 | 22.23 | 1.53    | 38.86  | 1.50    | 38.10 | 1.50    | 38.10 |
|                            |            |                                  | A      |             |       |      |       | 2.53    | 64.26  |         |       |         |       |
|                            |            |                                  | B      |             |       |      |       | 3.53    | 89.66  |         |       |         |       |
|                            |            |                                  | C      |             |       |      |       | 4.53    | 115.06 |         |       |         |       |
|                            | 08         |                                  | STD.   | 0.88        | 22.23 | 1.00 | 25.40 | 1.53    | 38.86  | 1.63    | 41.40 | 1.63    | 41.40 |
|                            |            |                                  | A      |             |       |      |       | 2.53    | 64.26  |         |       |         |       |
|                            |            |                                  | B      |             |       |      |       | 3.53    | 89.66  |         |       |         |       |
|                            |            |                                  | C      |             |       |      |       | 4.53    | 115.06 |         |       |         |       |
|                            | 09         |                                  | STD.   | 1.00        | 25.40 | 1.13 | 28.58 | 1.53    | 38.86  | 1.63    | 41.40 | 1.75    | 44.45 |
|                            |            |                                  | A      |             |       |      |       | 2.53    | 64.26  |         |       |         |       |
|                            |            |                                  | B      |             |       |      |       | 3.53    | 89.66  |         |       |         |       |
|                            |            |                                  | C      |             |       |      |       | 4.53    | 115.06 |         |       |         |       |
| 24                         | 04         | 24 / 25                          | STD.   | 0.38        | 9.53  | 0.50 | 12.70 | 1.53    | 38.86  | 1.25    | 31.75 | 1.16    | 29.46 |
|                            |            |                                  | A      |             |       |      |       | 2.53    | 64.26  |         |       |         |       |
|                            |            |                                  | B      |             |       |      |       | 3.53    | 89.66  |         |       |         |       |
|                            |            |                                  | C      |             |       |      |       | 4.53    | 115.06 |         |       |         |       |
|                            | 05         |                                  | STD.   | 0.50        | 12.70 | 0.63 | 15.88 | 1.53    | 38.86  | 1.31    | 33.27 | 1.25    | 31.75 |
|                            |            |                                  | A      |             |       |      |       | 2.53    | 64.26  |         |       |         |       |
|                            |            |                                  | B      |             |       |      |       | 3.53    | 89.66  |         |       |         |       |
|                            |            |                                  | C      |             |       |      |       | 4.53    | 115.06 |         |       |         |       |
|                            | 06         |                                  | STD.   | 0.63        | 15.88 | 0.75 | 19.05 | 1.53    | 38.86  | 1.38    | 35.05 | 1.38    | 35.05 |
|                            |            |                                  | A      |             |       |      |       | 2.53    | 64.26  |         |       |         |       |
|                            |            |                                  | B      |             |       |      |       | 3.53    | 89.66  |         |       |         |       |
|                            |            |                                  | C      |             |       |      |       | 4.53    | 115.06 |         |       |         |       |
|                            | 07         |                                  | STD.   | 0.75        | 19.05 | 0.88 | 22.23 | 1.53    | 38.86  | 1.50    | 38.10 | 1.50    | 38.10 |
|                            |            |                                  | A      |             |       |      |       | 2.53    | 64.26  |         |       |         |       |
|                            |            |                                  | B      |             |       |      |       | 3.53    | 89.66  |         |       |         |       |
|                            |            |                                  | C      |             |       |      |       | 4.53    | 115.06 |         |       |         |       |
|                            | 08         |                                  | STD.   | 0.88        | 22.23 | 1.00 | 25.40 | 1.53    | 38.86  | 1.63    | 41.40 | 1.63    | 41.40 |
|                            |            |                                  | A      |             |       |      |       | 2.53    | 64.26  |         |       |         |       |
|                            |            |                                  | B      |             |       |      |       | 3.53    | 89.66  |         |       |         |       |
|                            |            |                                  | C      |             |       |      |       | 4.53    | 115.06 |         |       |         |       |
|                            | 09         |                                  | STD.   | 1.00        | 25.40 | 1.13 | 28.58 | 1.53    | 38.86  | 1.63    | 41.40 | 1.75    | 44.45 |
|                            |            |                                  | A      |             |       |      |       | 2.53    | 64.26  |         |       |         |       |
|                            |            |                                  | B      |             |       |      |       | 3.53    | 89.66  |         |       |         |       |
|                            |            |                                  | C      |             |       |      |       | 4.53    | 115.06 |         |       |         |       |
|                            | 10         |                                  | STD.   | 1.13        | 28.58 | 1.25 | 31.75 | 1.53    | 38.86  | 1.63    | 41.40 | 1.88    | 47.75 |
|                            |            |                                  | A      |             |       |      |       | 2.53    | 64.26  |         |       |         |       |
|                            |            |                                  | B      |             |       |      |       | 3.53    | 89.66  |         |       |         |       |
|                            |            |                                  | C      |             |       |      |       | 4.53    | 115.06 |         |       |         |       |

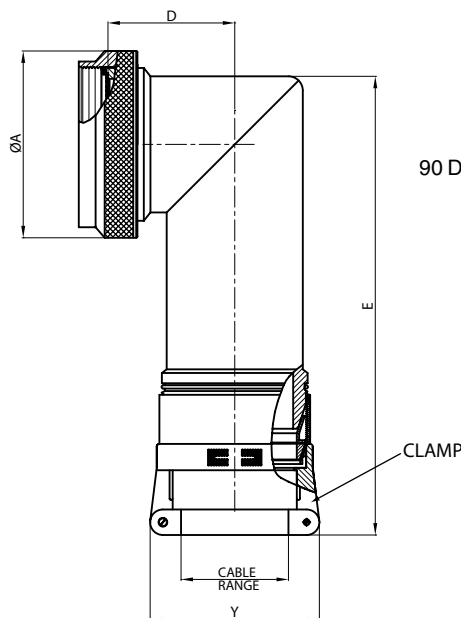
Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

### For Connector Family K

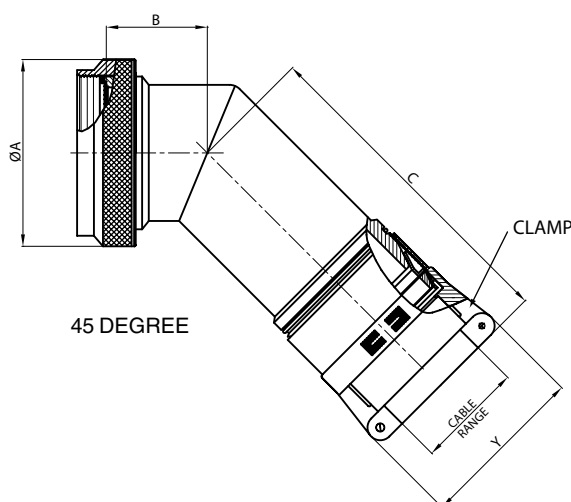
**38999 Series II**

**38999 Series I**

Connector Family "K", includes  
MIL-DTL-38999 Series II and Series I



90 DEGREE



45 DEGREE

#### MIL Part Number

**M85049 / 76 10 W 01**

MIL Series

Slash Sheet:  
76: 90° Spin Coupling  
77: 45° Spin Coupling

Shell Size  
See Table-B

Clamp Size:  
See Table-B

Finish:  
See Table-2  
(pg. 486)

**TABLE - B**

| TABLE – B                  |            |                                  |             |       |      |       |              |       |         |       |         |       |         |       |         |       |         |       |
|----------------------------|------------|----------------------------------|-------------|-------|------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| MIL PART NUMBER DESIGNATOR |            | CONNECTOR SHELL SIZE SE – II / I | CABLE RANGE |       |      |       | A DIA. (MAX) |       | B (MAX) |       | C (MAX) |       | D (MAX) |       | E (MAX) |       | Y (MAX) |       |
| ACCESSORY SHELL SIZE       | CLAMP SIZE |                                  | MIN         |       | MAX  |       | INCH         | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    |
|                            |            |                                  | INCH        | MM    | INCH | MM    |              |       |         |       |         |       |         |       |         |       |         |       |
| 08                         | 01         | 8 / 9                            | 0.06        | 1.57  | 0.13 | 3.18  | 0.75         | 19.05 | 0.46    | 11.68 | 3.15    | 80.01 | 0.69    | 17.53 | 3.46    | 87.88 | 0.80    | 20.32 |
|                            | 02         |                                  | 0.13        | 3.18  | 0.25 | 6.35  |              |       |         |       |         |       |         |       |         |       | 1.00    | 25.40 |
| 10                         | 01         | 10 / 11                          | 0.06        | 1.57  | 0.13 | 3.18  | 0.85         | 21.59 | 0.52    | 13.21 | 3.21    | 81.53 | 0.78    | 19.81 | 3.58    | 90.93 | 0.80    | 20.32 |
|                            | 02         |                                  | 0.13        | 3.18  | 0.25 | 6.35  |              |       |         |       |         |       |         |       |         |       | 1.00    | 25.40 |
|                            | 03         |                                  | 0.25        | 6.35  | 0.38 | 9.53  |              |       |         |       |         |       |         |       |         |       | 1.10    | 27.94 |
| 12                         | 02         | 12 / 13                          | 0.13        | 3.18  | 0.25 | 6.35  | 1.00         | 25.40 | 0.58    | 14.73 | 3.27    | 83.06 | 0.80    | 20.32 | 3.60    | 91.44 | 1.00    | 25.40 |
|                            | 03         |                                  | 0.25        | 6.35  | 0.38 | 9.53  |              |       |         |       |         |       |         |       |         |       | 1.10    | 27.94 |
|                            | 04         |                                  | 0.38        | 9.53  | 0.50 | 12.70 |              |       |         |       |         |       |         |       |         |       | 1.20    | 30.48 |
| 14                         | 02         | 14 / 15                          | 0.13        | 3.18  | 0.25 | 6.35  | 1.15         | 29.21 | 0.65    | 16.51 | 3.36    | 85.34 | 0.88    | 22.35 | 3.67    | 93.22 | 1.00    | 25.40 |
|                            | 03         |                                  | 0.25        | 6.35  | 0.38 | 9.53  |              |       |         |       |         |       |         |       |         |       | 1.10    | 27.94 |
|                            | 04         |                                  | 0.38        | 9.53  | 0.50 | 12.70 |              |       |         |       |         |       |         |       |         |       | 1.20    | 30.48 |
|                            | 05         |                                  | 0.50        | 12.70 | 0.63 | 15.88 |              |       |         |       |         |       |         |       |         |       | 1.25    | 31.75 |
| 16                         | 02         | 16 / 17                          | 0.13        | 3.18  | 0.25 | 6.35  | 1.25         | 31.75 | 0.74    | 18.80 | 3.47    | 88.14 | 0.93    | 23.62 | 3.76    | 95.50 | 1.00    | 25.40 |
|                            | 03         |                                  | 0.25        | 6.35  | 0.38 | 9.53  |              |       |         |       |         |       |         |       |         |       | 1.10    | 27.94 |
|                            | 04         |                                  | 0.38        | 9.53  | 0.50 | 12.70 |              |       |         |       |         |       |         |       |         |       | 1.20    | 30.48 |
|                            | 05         |                                  | 0.50        | 12.70 | 0.63 | 15.88 |              |       |         |       |         |       |         |       |         |       | 1.25    | 31.75 |
|                            | 06         |                                  | 0.63        | 15.88 | 0.75 | 19.05 |              |       |         |       |         |       |         |       |         |       | 1.40    | 35.56 |
| 18                         | 03         | 18 / 19                          | 0.25        | 6.35  | 0.38 | 9.53  | 1.40         | 35.56 | 0.93    | 23.62 | 3.66    | 92.96 | 1.01    | 25.65 | 3.93    | 99.82 | 1.10    | 27.94 |
|                            | 04         |                                  | 0.38        | 9.53  | 0.50 | 12.70 |              |       |         |       |         |       |         |       |         |       | 1.20    | 30.48 |
|                            | 05         |                                  | 0.50        | 12.70 | 0.63 | 15.88 |              |       |         |       |         |       |         |       |         |       | 1.25    | 31.75 |
|                            | 06         |                                  | 0.63        | 15.88 | 0.75 | 19.05 |              |       |         |       |         |       |         |       |         |       | 1.40    | 35.56 |
|                            | 07         |                                  | 0.75        | 19.05 | 0.88 | 22.23 |              |       |         |       |         |       |         |       |         |       | 1.50    | 38.10 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

High Speed  
Fiber  
Optics  
Contacts

EMI Filter  
Transient

Matrix 2  
26482

Matrix I Pyle  
III  
83723

Pyle  
26500

Crimp Rear  
Release  
Matrix  
5015

Class I  
22992

Back-  
Shells

Options  
Others

### For Connector Family K

38999 Series II

38999 Series I

Connector Family "K", includes MIL-DTL-38999 Series II and Series I

TABLE - B

| TABLE – B                  |            |                                  |             |       |      |       |              |       |         |       |         |       |         |       |         |        |         |       |
|----------------------------|------------|----------------------------------|-------------|-------|------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|--------|---------|-------|
| MIL PART NUMBER DESIGNATOR |            | CONNECTOR SHELL SIZE SE – II / I | CABLE RANGE |       |      |       | A DIA. (MAX) |       | B (MAX) |       | C (MAX) |       | D (MAX) |       | E (MAX) |        | Y (MAX) |       |
| ACCESSORY SHELL SIZE       | CLAMP SIZE |                                  | MIN         |       | MAX  |       | INCH         | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM     | INCH    | MM    |
|                            |            |                                  | INCH        | MM    | INCH | MM    |              |       |         |       |         |       |         |       |         |        |         |       |
| 20                         | 03         | 20 / 21                          | 0.25        | 6.35  | 0.38 | 9.53  | 1.55         | 39.37 | 0.93    | 23.62 | 3.66    | 92.96 | 1.06    | 26.92 | 3.93    | 99.82  | 1.10    | 27.94 |
|                            | 04         |                                  | 0.38        | 9.53  | 0.50 | 12.70 |              |       |         |       |         |       |         |       |         |        | 1.20    | 30.48 |
|                            | 05         |                                  | 0.50        | 12.70 | 0.63 | 15.88 |              |       |         |       |         |       |         |       |         |        | 1.25    | 31.75 |
|                            | 06         |                                  | 0.63        | 15.88 | 0.75 | 19.05 |              |       |         |       |         |       |         |       |         |        | 1.40    | 35.56 |
|                            | 07         |                                  | 0.75        | 19.05 | 0.88 | 22.23 |              |       |         |       |         |       |         |       |         |        | 1.50    | 38.10 |
|                            | 08         |                                  | 0.88        | 22.23 | 1.00 | 25.40 |              |       |         |       |         |       |         |       |         |        | 1.65    | 41.91 |
| 22                         | 03         | 22 /23                           | 0.25        | 6.35  | 0.38 | 9.53  | 1.65         | 41.91 | 1.02    | 25.91 | 3.81    | 96.77 | 1.17    | 29.72 | 4.04    | 102.62 | 1.10    | 27.94 |
|                            | 04         |                                  | 0.38        | 9.53  | 0.50 | 12.70 |              |       |         |       |         |       |         |       |         |        | 1.20    | 30.48 |
|                            | 05         |                                  | 0.50        | 12.70 | 0.63 | 15.88 |              |       |         |       |         |       |         |       |         |        | 1.25    | 31.75 |
|                            | 06         |                                  | 0.63        | 15.88 | 0.75 | 19.05 |              |       |         |       |         |       |         |       |         |        | 1.40    | 35.56 |
|                            | 07         |                                  | 0.75        | 19.05 | 0.88 | 22.23 |              |       |         |       |         |       |         |       |         |        | 1.50    | 38.10 |
|                            | 08         |                                  | 0.88        | 22.23 | 1.00 | 25.40 |              |       |         |       |         |       |         |       |         |        | 1.65    | 41.91 |
| 24                         | 09         | 24 / 25                          | 1.00        | 25.40 | 1.13 | 28.58 | 1.85         | 46.99 | 1.02    | 25.91 | 3.81    | 96.77 | 1.18    | 29.97 | 4.04    | 102.62 | 1.75    | 44.45 |
|                            | 04         |                                  | 0.38        | 9.53  | 0.50 | 12.70 |              |       |         |       |         |       |         |       |         |        | 1.20    | 30.48 |
|                            | 05         |                                  | 0.50        | 12.70 | 0.63 | 15.88 |              |       |         |       |         |       |         |       |         |        | 1.25    | 31.75 |
|                            | 06         |                                  | 0.63        | 15.88 | 0.75 | 19.05 |              |       |         |       |         |       |         |       |         |        | 1.40    | 35.56 |
|                            | 07         |                                  | 0.75        | 19.05 | 0.88 | 22.23 |              |       |         |       |         |       |         |       |         |        | 1.50    | 38.10 |
|                            | 08         |                                  | 0.88        | 22.23 | 1.00 | 25.40 |              |       |         |       |         |       |         |       |         |        | 1.65    | 41.91 |
|                            | 09         |                                  | 1.00        | 25.40 | 1.13 | 28.58 |              |       |         |       |         |       |         |       |         |        | 1.75    | 44.45 |
| 10                         | 1.13       | 28.58                            | 1.25        | 31.75 | 1.90 | 48.26 |              |       |         |       |         |       |         |       |         |        |         |       |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

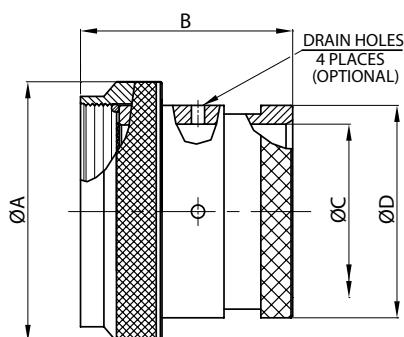
## Shrink Boot Adapter Straight Spin Coupling

### For Connector Family K

**38999 Series II**

**38999 Series I**

Connector Family "K", includes  
MIL-DTL-38999 Series II and Series I



#### MIL Part Number

**M85049 / 62 10 W D**

MIL Series: **M85049**  
Slash Sheet: **62** (Straight, Spin Coupling)  
Dash Number: **10**  
Finish: **W** (See Table-2 (pg. 486))  
D: Drain hole Option

**TABLE-A**

| MIL PART NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE<br>SE - II/I | A DIA. (MAX) |       | B (MAX) |       | C DIA. ( MIN) |       | D DIA. ( MAX) |       |
|-------------------------------|--------------------------------------|--------------|-------|---------|-------|---------------|-------|---------------|-------|
| DASH NO.                      |                                      | INCH         | MM    | INCH    | MM    | INCH          | MM    | INCH          | MM    |
| 08                            | 8 / 9                                | 0.75         | 19.05 | 1.00    | 25.40 | 0.25          | 6.35  | 0.53          | 13.54 |
| 10                            | 10 / 11                              | 0.85         | 21.59 | 1.00    | 25.40 | 0.38          | 9.53  | 0.61          | 15.37 |
| 12                            | 12 / 13                              | 1.00         | 25.40 | 1.00    | 25.40 | 0.50          | 12.70 | 0.77          | 19.66 |
| 14                            | 14 / 15                              | 1.10         | 27.94 | 1.00    | 25.40 | 0.63          | 15.88 | 0.84          | 21.29 |
| 16                            | 16 / 17                              | 1.25         | 31.75 | 1.00    | 25.40 | 0.75          | 19.05 | 0.94          | 23.77 |
| 18                            | 18 / 19                              | 1.40         | 35.56 | 1.00    | 25.40 | 0.81          | 20.62 | 1.04          | 26.47 |
| 20                            | 20 / 21                              | 1.50         | 38.10 | 1.00    | 25.40 | 0.94          | 23.80 | 1.22          | 30.91 |
| 22                            | 22 / 23                              | 1.65         | 41.91 | 1.00    | 25.40 | 1.06          | 26.97 | 1.36          | 34.42 |
| 24                            | 24 / 25                              | 1.75         | 44.45 | 1.00    | 25.40 | 1.19          | 30.18 | 1.44          | 36.65 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

**38999**

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

83723

III

Matrix I Pyle

26500

Pyle

5015

Crimp Rear Release Matrix

22992

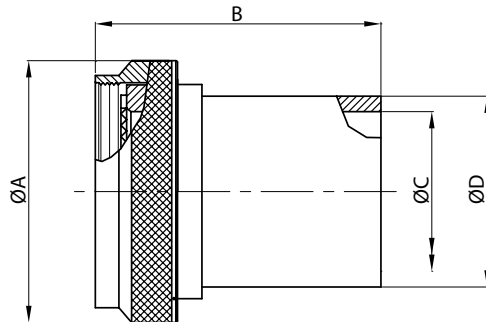
Class I

Back-

Shells

Options

Others



#### MIL Part Number

**M85049 / 33 -2 -10 W**  
 MIL Series: M85049 / 33  
 Slash Sheet: 33: Straight, Spin Coupling  
 Finish: See Table-2 (pg. 486)  
 Dash Number: See Table-A  
 Adapter without Crimp Ring

Refer to page 544 for ordering details of ring.

TABLE – A

| MIL PART NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE<br>SE – II/I | A DIA.(MAX) |       | B (MAX) |       | C DIA.(MAX) |       | D DIA.(MAX) |       |
|-------------------------------|--------------------------------------|-------------|-------|---------|-------|-------------|-------|-------------|-------|
|                               |                                      | INCH        | MM    | INCH    | MM    | INCH        | MM    | INCH        | MM    |
| DASH NO                       |                                      |             |       |         |       |             |       |             |       |
| 08                            | 8 / 9                                | 0.75        | 19.05 | 1.14    | 28.96 | 0.27        | 6.86  | 0.35        | 8.89  |
| 10                            | 10 / 11                              | 0.85        | 21.59 | 1.14    | 28.96 | 0.34        | 8.64  | 0.50        | 12.70 |
| 12                            | 12 / 13                              | 1.00        | 25.40 | 1.14    | 28.96 | 0.44        | 11.18 | 0.51        | 12.95 |
| 14                            | 14 / 15                              | 1.10        | 27.94 | 1.14    | 28.96 | 0.56        | 14.22 | 0.63        | 16.00 |
| 16                            | 16 / 17                              | 1.25        | 31.75 | 1.14    | 28.96 | 0.69        | 17.53 | 0.76        | 19.30 |
| 18                            | 18 / 19                              | 1.40        | 35.56 | 1.14    | 28.96 | 0.80        | 20.32 | 0.89        | 22.61 |
| 20                            | 20 / 21                              | 1.50        | 38.10 | 1.14    | 28.96 | 0.93        | 23.62 | 1.01        | 25.65 |
| 22                            | 22 / 23                              | 1.65        | 41.91 | 1.14    | 28.96 | 1.05        | 26.67 | 1.13        | 28.70 |
| 24                            | 24 / 25                              | 1.75        | 44.45 | 1.14    | 28.96 | 1.13        | 28.70 | 1.20        | 30.48 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

## Band Lock Adapter

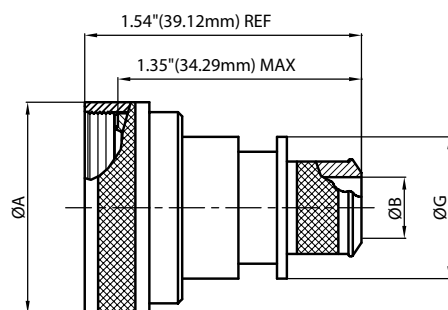
### Straight, 90° and 45° Self-Lock

### For Connector Family K

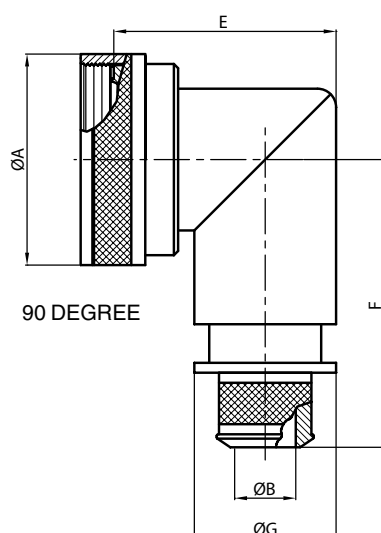
**38999 Series II**

**38999 Series I**

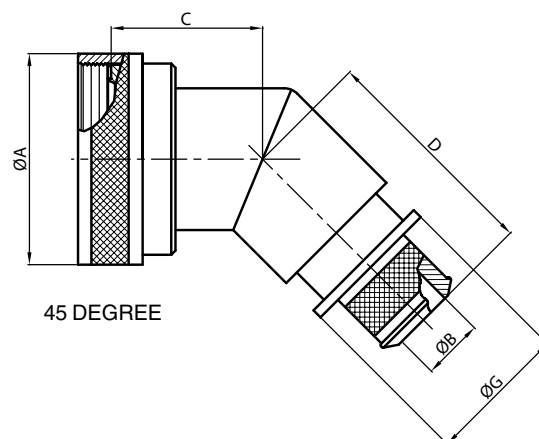
Connector Family "K", includes  
MIL-DTL-38999 Series II and Series I



STRAIGHT



90 DEGREE



45 DEGREE

#### MIL Part Number

**M85049 / 85 -10 W 02**

MIL Series

Slash Sheet:  
85: Straight, Self-Lock  
87: 90°, Self-Lock  
86: 45°, Self-Lock

Entry Size:  
See Table-A

Finish:  
See Table-2  
(pg. 486)

Shell Size  
See Table-A

TABLE-A

| TABLE-A                    |            |                                  |              |       |              |             |         |       |         |       |         |       |          |       |       |       |
|----------------------------|------------|----------------------------------|--------------|-------|--------------|-------------|---------|-------|---------|-------|---------|-------|----------|-------|-------|-------|
| MIL PART NUMBER DESIGNATOR |            | CONNECTOR SHELL SIZE SE – II / I | A DIA. (MAX) |       | B DIA. (MAX) |             | C (MAX) |       | D (MAX) |       | E (MAX) |       | F (MAX.) |       | G MAX |       |
| ACCESSORY SHELL SIZE       | ENTRY SIZE |                                  |              |       | +0.00 -0.02  | +0.00 -0.50 |         |       |         |       |         |       |          |       |       |       |
|                            |            |                                  | INCH         | MM    | INCH         | MM          | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH     | MM    | INCH  | MM    |
| 08                         | 03         | 8 / 9                            | 0.86         | 21.82 | 0.26         | 6.60        | 0.87    | 22.10 | 1.16    | 29.46 | 1.38    | 34.93 | 1.42     | 35.99 | 0.56  | 14.22 |
| 10                         | 03         | 10 / 11                          | 0.99         | 25.04 | 0.32         | 8.13        | 0.90    | 22.86 | 1.19    | 30.23 | 1.44    | 36.50 | 1.48     | 37.59 | 0.63  | 16.00 |
| 12                         | 02         | 12 / 13                          | 1.16         | 29.36 | 0.32         | 8.13        | 0.92    | 23.37 | 1.21    | 30.73 | 1.56    | 39.67 | 1.55     | 39.45 | 0.63  | 16.00 |
|                            | 0.45       |                                  |              |       | 11.43        | 0.75        |         |       |         |       |         |       |          |       | 19.05 |       |
| 14                         | 02         | 14 / 15                          | 1.28         | 32.54 | 0.45         | 11.43       | 0.95    | 24.13 | 1.24    | 31.50 | 1.69    | 42.85 | 1.61     | 41.00 | 0.75  | 19.05 |
|                            | 0.57       |                                  |              |       | 14.48        | 0.89        |         |       |         |       |         |       |          |       | 22.61 |       |
| 16                         | 02         | 16 / 17                          | 1.41         | 35.71 | 0.51         | 12.95       | 0.98    | 24.89 | 1.26    | 32.00 | 1.75    | 44.45 | 1.68     | 42.62 | 0.82  | 20.83 |
|                            | 0.64       |                                  |              |       | 16.26        | 0.95        |         |       |         |       |         |       |          |       | 24.13 |       |
| 18                         | 02         | 18 / 19                          | 1.52         | 38.51 | 0.64         | 16.26       | 0.98    | 24.89 | 1.27    | 32.26 | 1.88    | 47.63 | 1.73     | 44.02 | 0.95  | 24.13 |
|                            | 0.76       |                                  |              |       | 19.30        | 1.07        |         |       |         |       |         |       |          |       | 27.18 |       |
| 20                         | 02         | 20 / 21                          | 1.64         | 41.68 | 0.64         | 16.26       | 1.01    | 25.65 | 1.30    | 33.02 | 1.94    | 49.23 | 1.80     | 45.62 | 0.95  | 24.13 |
|                            | 0.82       |                                  |              |       | 20.83        | 1.13        |         |       |         |       |         |       |          |       | 28.07 |       |
| 22                         | 02         | 22 / 23                          | 1.77         | 44.86 | 0.70         | 17.78       | 1.04    | 26.42 | 1.33    | 33.78 | 2.06    | 52.37 | 1.86     | 47.22 | 1.02  | 25.99 |
|                            | 0.95       |                                  |              |       | 24.13        | 1.26        |         |       |         |       |         |       |          |       | 32.00 |       |
| 24                         | 02         | 24 / 25                          | 1.89         | 48.03 | 0.76         | 19.30       | 1.07    | 27.18 | 1.35    | 34.29 | 2.13    | 53.98 | 1.92     | 48.74 | 1.07  | 27.18 |
|                            | 1.01       |                                  |              |       | 25.65        | 1.32        |         |       |         |       |         |       |          |       | 33.53 |       |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

Matrix I Pyle

83723

III

Pyle

26500

Crimp Rear

Release

Matrix

5015

22992

Class I

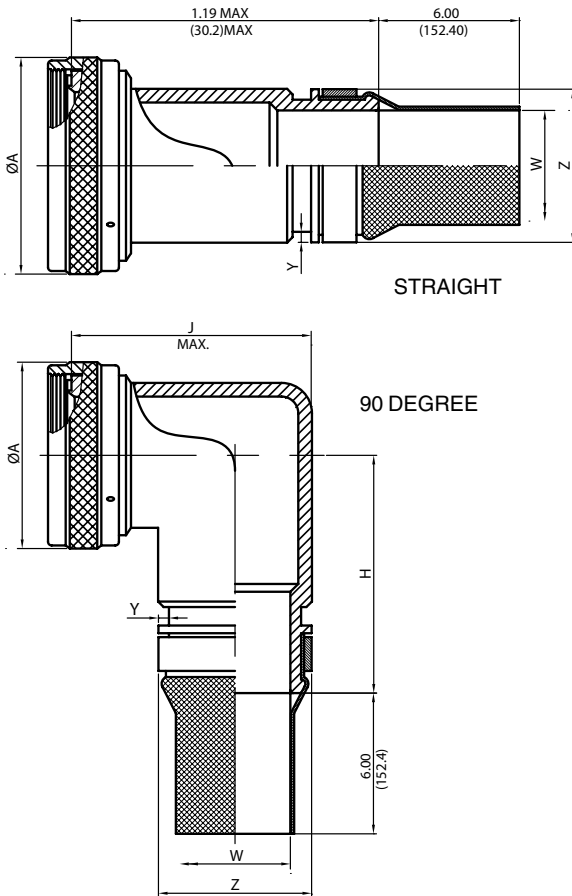
Back-

Shells

Options

Others





#### MIL Part Number

**M85049 / 112 - 10 T W 03 -6 D**

|                  |               |   |    |   |   |    |    |   |                                                                                                          |
|------------------|---------------|---|----|---|---|----|----|---|----------------------------------------------------------------------------------------------------------|
| MIL Series       | 112           | - | 10 | T | W | 03 | -6 | D | Drain Hole Option                                                                                        |
| Slash Sheet:     | 112: Straight |   |    |   |   |    |    |   | Shield Length:<br>6 inches min.<br>18 inches max.<br>1 inch increments<br>6: 6 inch, 7: 7 inch,<br>so on |
| Coupling:        | 114: 90°      |   |    |   |   |    |    |   | Entry Size:<br>See Table-A & B                                                                           |
| -: Spin Coupling |               |   |    |   |   |    |    |   | Finish:<br>See Table-2<br>(pg. 486)                                                                      |
| S: Self-Lock     |               |   |    |   |   |    |    |   | Shield Finish:<br>(Material: Copper)<br>K: Nickel<br>T: Tin                                              |
| Shell Size:      |               |   |    |   |   |    |    |   |                                                                                                          |
| See Table-A      |               |   |    |   |   |    |    |   |                                                                                                          |

**TABLE - A**

| TABLE – A                  |                      |     |                                  |             |       |         |       |         |       |
|----------------------------|----------------------|-----|----------------------------------|-------------|-------|---------|-------|---------|-------|
| MIL PART NUMBER DESIGNATOR |                      |     | CONNECTOR SHELL SIZE SE – II / I | A DIA.(MAX) |       | H (MAX) |       | J (MAX) |       |
| ACCESSORY SHELL SIZE       | ALLOWABLE ENTRY SIZE |     |                                  | INCH        | MM    | INCH    | MM    | INCH    | MM    |
|                            | MIN                  | MAX |                                  |             |       |         |       |         |       |
| 08                         | -                    | 01  | 8/9                              | 0.860       | 21.84 | 1.73    | 43.94 | 1.07    | 27.18 |
| 10                         | 01                   | 03  | 10/11                            | 0.980       | 24.89 | 1.85    | 46.99 | 1.19    | 30.23 |
| 12                         | 01                   | 05  | 12/13                            | 1.160       | 29.46 | 1.87    | 47.50 | 1.32    | 33.53 |
| 14                         | 03                   | 07  | 14/15                            | 1.280       | 32.51 | 1.94    | 49.28 | 1.44    | 36.58 |
| 16                         | 05                   | 09  | 16/17                            | 1.410       | 35.81 | 2.03    | 51.56 | 1.57    | 39.88 |
| 18                         | 06                   | 10  | 18/19                            | 1.520       | 38.61 | 2.20    | 55.88 | 1.75    | 44.45 |
| 20                         | 08                   | 12  | 20/21                            | 1.640       | 41.66 | 2.20    | 55.88 | 1.75    | 44.45 |
| 22                         | 09                   | 13  | 22/23                            | 1.770       | 44.96 | 2.31    | 58.67 | 2.00    | 50.80 |
| 24                         | 10                   | 14  | 24/25                            | 1.890       | 48.01 | 2.31    | 58.67 | 2.00    | 50.80 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

**TABLE - B**

| ENTRY SIZE | W      | W      | Y      | Y      | Z    | Z     |
|------------|--------|--------|--------|--------|------|-------|
|            | ±0.020 | ±0.508 | +0.008 | +0.200 | MAX  | MAX   |
|            | -0.000 | -0.000 | -0.000 | -0.000 | INCH | MM    |
| 01         | 0.250  | 6.350  | 0.044  | 1.12   | 0.56 | 14.22 |
| 02         | 0.312  | 7.920  | 0.044  | 1.12   | 0.63 | 16.00 |
| 03         | 0.375  | 9.530  | 0.044  | 1.12   | 0.69 | 17.53 |
| 04         | 0.438  | 11.130 | 0.044  | 1.12   | 0.75 | 19.05 |
| 05         | 0.500  | 12.700 | 0.044  | 1.12   | 0.82 | 20.83 |
| 06         | 0.562  | 14.270 | 0.044  | 1.12   | 0.89 | 22.61 |
| 07         | 0.625  | 15.880 | 0.044  | 1.12   | 0.95 | 24.13 |
| 08         | 0.688  | 17.480 | 0.044  | 1.12   | 1.02 | 25.91 |
| 09         | 0.750  | 19.050 | 0.069  | 1.75   | 1.07 | 27.18 |
| 10         | 0.812  | 20.620 | 0.069  | 1.75   | 1.13 | 28.70 |
| 11         | 0.875  | 22.230 | 0.069  | 1.75   | 1.19 | 30.23 |
| 12         | 0.938  | 23.830 | 0.069  | 1.75   | 1.26 | 32.00 |
| 13         | 1.000  | 25.400 | 0.069  | 1.75   | 1.32 | 33.53 |
| 14         | 1.125  | 28.575 | 0.069  | 1.75   | 1.47 | 37.34 |

## Quick Clamp

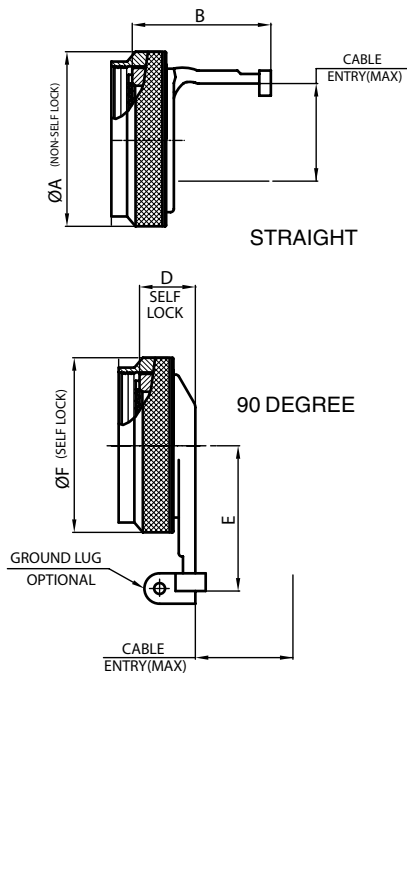
Straight, 90° and 45° Self-Lock/Non Self-Lock

For Connector Family K

38999 Series II

38999 Series I

Connector Family "K", includes  
MIL-DTL-38999 Series II and Series I



**MIL Part Number**

**M85049 / 56 - 10 W**

MIL Series: M85049 / 56  
 Slash Sheet: 56: Straight, 63: 90°, 57: 45°  
 Dash Number: 10  
 Finish: See Table-2 (pg. 486)  
 Coupling: S: Self-Lock (only for 90° and 45°), G: Self-Lock with grounding Lug (only for 90° and 45°), -: Non Self-Lock

| TABLE - A                  |                                  |             |       |         |       |         |       |         |       |         |       |             |       |                 |
|----------------------------|----------------------------------|-------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|-------------|-------|-----------------|
| MIL PART NUMBER DESIGNATOR | CONNECTOR SHELL SIZE SE - II / I | A DIA.(MAX) |       | B (MAX) |       | C (MAX) |       | D (MAX) |       | E (MAX) |       | F DIA.(MAX) |       | CABLE ENTRY MAX |
| DASH NO                    |                                  | INCH        | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH        | MM    | INCH            |
| 8                          | 8 / 9                            | 0.66        | 16.69 | 0.95    | 24.23 | 1.23    | 31.29 | 0.73    | 18.54 | 1.22    | 30.99 | 0.89        | 22.48 | 0.26            |
| 10                         | 10 / 11                          | 0.78        | 19.86 | 0.95    | 24.23 | 1.23    | 31.29 | 0.73    | 18.54 | 1.29    | 32.77 | 1.01        | 25.65 | 0.37            |
| 12                         | 12 / 13                          | 0.94        | 23.80 | 0.95    | 24.23 | 1.23    | 31.29 | 0.73    | 18.54 | 1.62    | 41.15 | 1.14        | 28.83 | 0.50            |
| 14                         | 14 / 15                          | 1.05        | 26.67 | 1.20    | 30.58 | 1.23    | 31.29 | 0.73    | 18.54 | 1.66    | 42.16 | 1.26        | 32.00 | 0.58            |
| 16                         | 16 / 17                          | 1.24        | 31.47 | 1.20    | 30.58 | 1.23    | 31.29 | 0.73    | 18.54 | 1.72    | 43.69 | 1.39        | 35.18 | 0.70            |
| 18                         | 18 / 19                          | 1.38        | 35.00 | 1.20    | 30.58 | 1.23    | 31.29 | 0.73    | 18.54 | 1.72    | 43.69 | 1.51        | 38.35 | 0.78            |
| 20                         | 20 / 21                          | 1.50        | 38.10 | 1.31    | 33.27 | 1.48    | 37.64 | 0.75    | 19.05 | 1.79    | 45.47 | 1.64        | 41.53 | 0.90            |
| 22                         | 22 / 23                          | 1.63        | 41.43 | 1.43    | 36.32 | 1.48    | 37.64 | 0.75    | 19.05 | 1.85    | 46.99 | 1.76        | 44.70 | 1.03            |
| 24                         | 24 / 25                          | 1.75        | 44.45 | 1.56    | 39.62 | 1.48    | 37.64 | 0.75    | 19.05 | 1.91    | 48.51 | 1.89        | 47.88 | 1.14            |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
 All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

83723

III

Matrix I Pyle

26500

Pyle

5015

Crimp Rear Release Matrix

22992

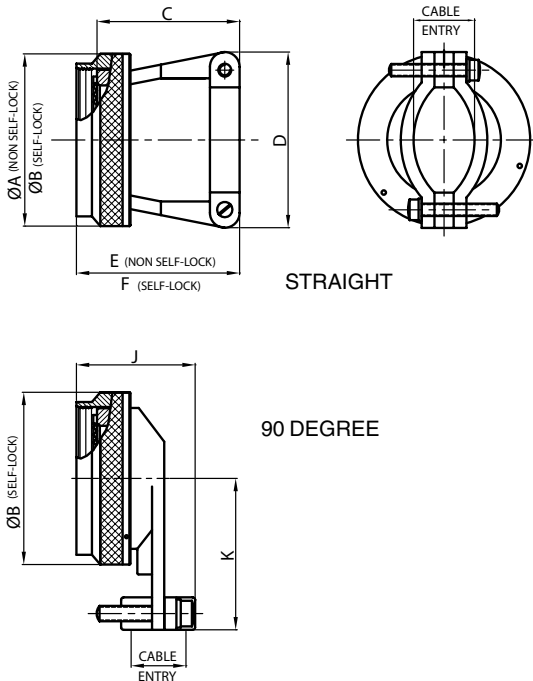
Class I

Back-

Shells

Options

Others



#### MIL Part Number

**M85049 / 47 - 10 W**

MIL Series

Slash Sheet:

49-2: Straight

47: 90°

 Finish:  
See Table-2  
(pg. 486)

 Dash Number:  
See Table-A

 Coupling:  
S: Self-Lock  
-: Non Self-Lock

**TABLE - A**

| MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE<br>SE - II/I | A DIA.(MAX) |       | B DIA.(MAX) |       | C (MAX) |       | D (MAX) |       | E (MAX) |       | F (MAX) |       |
|----------------------------------|--------------------------------------|-------------|-------|-------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
|                                  |                                      | INCH        | MM    | INCH        | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    |
| 08                               | 8 / 9                                | 0.75        | 19.05 | 0.86        | 21.82 | 0.91    | 23.11 | 0.85    | 21.59 | 1.10    | 27.94 | 1.15    | 29.21 |
| 10                               | 10 / 11                              | 0.85        | 21.59 | 0.98        | 24.99 | 0.91    | 23.11 | 0.90    | 22.86 | 1.10    | 27.94 | 1.15    | 29.21 |
| 12                               | 12 / 13                              | 1.00        | 25.40 | 1.16        | 29.36 | 1.01    | 25.65 | 1.10    | 27.94 | 1.20    | 30.48 | 1.25    | 31.75 |
| 14                               | 14 / 15                              | 1.10        | 27.94 | 1.28        | 32.54 | 1.06    | 26.92 | 1.15    | 29.21 | 1.25    | 31.75 | 1.30    | 33.02 |
| 16                               | 16 / 17                              | 1.25        | 31.75 | 1.41        | 35.71 | 1.16    | 29.46 | 1.30    | 33.02 | 1.36    | 34.44 | 1.40    | 35.56 |
| 18                               | 18 / 19                              | 1.40        | 35.56 | 1.52        | 38.51 | 1.41    | 35.81 | 1.50    | 38.10 | 1.60    | 40.64 | 1.65    | 41.91 |
| 20                               | 20 / 21                              | 1.50        | 38.10 | 1.64        | 41.68 | 1.51    | 38.35 | 1.60    | 40.64 | 1.70    | 43.21 | 1.75    | 44.45 |
| 24                               | 22 / 23                              | 1.65        | 41.91 | 1.77        | 44.86 | 1.66    | 42.16 | 1.70    | 43.18 | 1.85    | 46.99 | 1.90    | 48.26 |
| 24                               | 24 / 25                              | 1.75        | 44.45 | 1.89        | 48.03 | 1.76    | 44.70 | 1.80    | 45.72 | 1.95    | 49.56 | 2.00    | 50.80 |

**TABLE - A, cont.**

| MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE<br>SE - II/I | J (MAX) |       | K (MAX) |       | CABLE ENTRY |       |      |       |
|----------------------------------|--------------------------------------|---------|-------|---------|-------|-------------|-------|------|-------|
|                                  |                                      | INCH    | MM    | INCH    | MM    | MIN         |       | MAX  |       |
|                                  |                                      |         |       |         |       | INCH        | MM    | INCH | MM    |
| 08                               | 8 / 9                                | 1.38    | 35.05 | 1.00    | 25.40 | 0.10        | 2.49  | 0.23 | 5.94  |
| 10                               | 10 / 11                              | 1.38    | 35.05 | 1.10    | 27.94 | 0.15        | 3.89  | 0.23 | 5.94  |
| 12                               | 12 / 13                              | 1.46    | 37.08 | 1.10    | 27.94 | 0.19        | 4.83  | 0.33 | 8.33  |
| 14                               | 14 / 15                              | 1.63    | 41.40 | 1.25    | 31.75 | 0.26        | 6.60  | 0.46 | 11.61 |
| 16                               | 16 / 17                              | 1.80    | 45.72 | 1.30    | 33.02 | 0.28        | 7.19  | 0.61 | 15.60 |
| 18                               | 18 / 19                              | 1.82    | 46.23 | 1.35    | 34.29 | 0.33        | 8.26  | 0.63 | 16.10 |
| 20                               | 20 / 21                              | 1.90    | 48.26 | 1.60    | 40.64 | 0.34        | 8.71  | 0.70 | 17.73 |
| 22                               | 22 / 23                              | 2.04    | 51.82 | 1.75    | 44.45 | 0.38        | 9.68  | 0.82 | 20.90 |
| 24                               | 24 / 25                              | 2.15    | 54.61 | 1.85    | 46.99 | 0.42        | 10.62 | 0.85 | 21.67 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

## Strain Relief Clamp

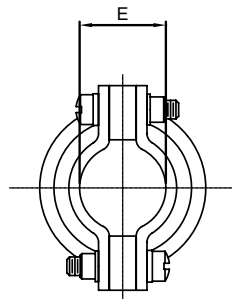
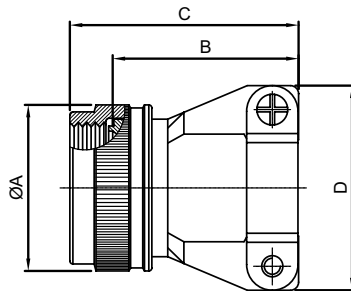
### Straight, Self-Lock/Non Self-Lock

### For Connector Family K

**38999 Series II**

**38999 Series I**

Connector Family "K", includes  
MIL-DTL-38999 Series II and Series I



#### MIL Part Number

**M85049 / 121 - 10 W**

MIL Series: M85049 / 121  
 Slash Sheet: 121: Straight  
 Finish: See Table-2 (pg. 486)  
 Dash Number: See Table-A  
 Coupling: S: Self-Lock, -: Non Self-Lock

**TABLE - A**

| MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE<br>SE - II / I | A DIA.(MAX) |       | B LENGTH  |             | C (MAX) |       | D (MAX) |       | E (CLOSED) |       |
|----------------------------------|----------------------------------------|-------------|-------|-----------|-------------|---------|-------|---------|-------|------------|-------|
|                                  |                                        | INCH        | MM    | INCH      | MM          | INCH    | MM    | INCH    | MM    | ±.031      | ±.787 |
| 08                               | 08                                     | 0.86        | 21.79 | 0.77/0.51 | 19.56/12.95 | 1.01    | 25.65 | 0.88    | 22.35 | 0.22       | 5.56  |
| 10                               | 10                                     | 0.98        | 24.99 | 0.89/0.64 | 22.61/16.26 | 1.13    | 28.70 | 0.94    | 23.88 | 0.26       | 6.71  |
| 12                               | 12                                     | 1.16        | 29.39 | 1.01/0.76 | 25.65/19.30 | 1.25    | 31.75 | 1.12    | 28.45 | 0.34       | 8.74  |
| 14                               | 14                                     | 1.28        | 32.49 | 1.01/0.76 | 25.65/19.30 | 1.25    | 31.75 | 1.19    | 30.23 | 0.46       | 11.68 |
| 16                               | 16                                     | 1.41        | 35.71 | 1.13/0.88 | 28.70/22.35 | 1.37    | 34.80 | 1.44    | 36.58 | 0.55       | 13.84 |
| 18                               | 18                                     | 1.52        | 38.51 | 1.38/1.13 | 35.05/28.70 | 1.62    | 41.15 | 1.56    | 39.62 | 0.62       | 15.62 |
| 20                               | 20                                     | 1.64        | 41.71 | 1.51/1.25 | 38.35/31.75 | 1.75    | 44.45 | 1.69    | 42.93 | 0.69       | 17.53 |
| 22                               | 22                                     | 1.77        | 44.91 | 1.62/1.38 | 41.15/35.05 | 1.87    | 47.50 | 1.75    | 44.45 | 0.78       | 19.81 |
| 24                               | 24                                     | 1.87        | 47.47 | 1.76/1.51 | 44.70/38.35 | 2.00    | 50.80 | 1.88    | 47.75 | 0.85       | 21.59 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
 All dimensions for reference only.

**38999**

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

83723

III

Matrix I Pyle

26500

Pyle

5015

Crimp Rear Release Matrix

22992

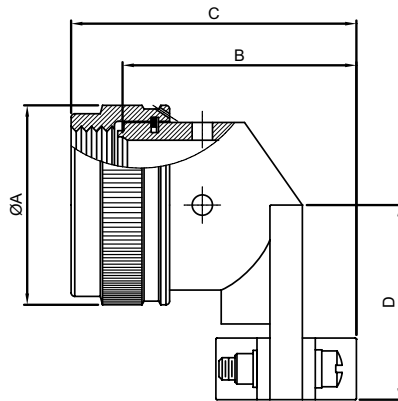
Class I

Back-

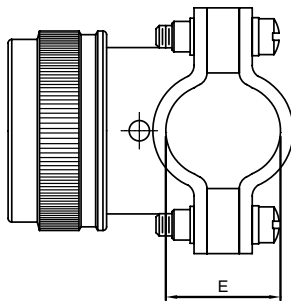
Shells

Options

Others



90 DEGREE



#### MIL Part Number

**M85049 / 123 - 10 W**  
 MIL Series: M85049 / 123  
 Slash Sheet: 123: 90°  
 Finish: See Table-2 (pg. 486)  
 Dash Number: See Table-A  
 Coupling: S: Self-Lock, -: Non Self-Lock

**TABLE - A**

| MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE<br>SE - II / I | A DIA.(MAX) |       | B (MAX) |       | C (MAX) |       | D (MAX) |       | E (CLOSED) |       |
|----------------------------------|----------------------------------------|-------------|-------|---------|-------|---------|-------|---------|-------|------------|-------|
|                                  |                                        | INCH        | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | ±.031      | ±.787 |
| DASH NO                          |                                        |             |       |         |       |         |       |         |       | INCH       | MM    |
| 08                               | 08                                     | 0.86        | 21.79 | 0.86    | 21.84 | 1.10    | 27.94 | 0.81    | 20.57 | 0.22       | 5.56  |
| 10                               | 10                                     | 0.98        | 24.99 | 0.94    | 23.88 | 1.18    | 29.97 | 0.87    | 22.10 | 0.26       | 6.71  |
| 12                               | 12                                     | 1.16        | 29.39 | 1.14    | 28.96 | 1.38    | 35.05 | 0.93    | 23.62 | 0.34       | 8.74  |
| 14                               | 14                                     | 1.28        | 32.49 | 1.20    | 30.48 | 1.44    | 36.58 | 0.99    | 25.15 | 0.46       | 11.68 |
| 16                               | 16                                     | 1.41        | 35.71 | 1.34    | 34.04 | 1.58    | 40.13 | 1.06    | 26.92 | 0.55       | 13.84 |
| 18                               | 18                                     | 1.52        | 38.51 | 1.46    | 37.08 | 1.70    | 43.18 | 1.23    | 31.24 | 0.62       | 15.62 |
| 20                               | 20                                     | 1.64        | 41.71 | 1.58    | 40.13 | 1.82    | 46.23 | 1.30    | 33.02 | 0.70       | 17.73 |
| 22                               | 22                                     | 1.77        | 44.91 | 1.71    | 43.43 | 1.95    | 49.53 | 1.36    | 34.54 | 0.78       | 19.81 |
| 24                               | 24                                     | 1.87        | 47.47 | 1.83    | 46.48 | 2.07    | 52.58 | 1.42    | 36.07 | 0.85       | 21.59 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
 All dimensions for reference only.

## Grommet Nut

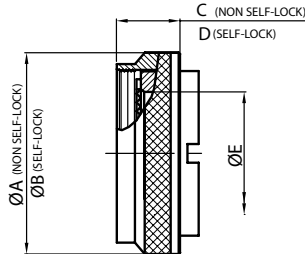
Straight, Self-Lock/Non Self-Lock

For Connector Family K

38999 Series II

38999 Series I

Connector Family "K", includes  
MIL-DTL-38999 Series II and Series I



### MIL Part Number

**M85049 / 27 - 10 W**

MIL Series: M85049  
Slash Sheet: 27: Straight  
Finish: See Table-2 (pg. 486)  
Dash Number: See Table-A  
Coupling: S: Self-Lock, -: Non Self-Lock

Note: \* Slot shown in figure is optional for Non Self-Lock

| TABLE-A                    |                                  |              |       |              |       |         |       |         |       |              |       |
|----------------------------|----------------------------------|--------------|-------|--------------|-------|---------|-------|---------|-------|--------------|-------|
| MIL PART NUMBER DESIGNATOR | CONNECTOR SHELL SIZE SE - II / I | A DIA. (MAX) |       | B DIA. (MAX) |       | C (MAX) |       | D (MAX) |       | E DIA. (MAX) |       |
| DASH NO.                   |                                  | INCH         | MM    | INCH         | MM    | INCH    | MM    | INCH    | MM    | INCH         | MM    |
| 08                         | 8 / 9                            | 0.75         | 19.05 | 0.86         | 21.82 | 0.54    | 13.72 | 0.59    | 14.99 | 0.27         | 6.86  |
| 10                         | 10 / 11                          | 0.85         | 21.59 | 0.98         | 24.99 | 0.54    | 13.72 | 0.59    | 14.99 | 0.41         | 10.41 |
| 12                         | 12 / 13                          | 1.00         | 25.40 | 1.16         | 29.36 | 0.54    | 13.72 | 0.59    | 14.99 | 0.53         | 13.46 |
| 14                         | 14 / 15                          | 1.10         | 27.94 | 1.28         | 32.54 | 0.54    | 13.72 | 0.59    | 14.99 | 0.65         | 16.51 |
| 16                         | 16 / 17                          | 1.25         | 31.75 | 1.41         | 35.71 | 0.54    | 13.72 | 0.59    | 14.99 | 0.78         | 19.81 |
| 18                         | 18 / 19                          | 1.40         | 35.56 | 1.52         | 38.51 | 0.54    | 13.72 | 0.59    | 14.99 | 0.88         | 22.35 |
| 20                         | 20 / 21                          | 1.50         | 38.10 | 1.64         | 41.68 | 0.54    | 13.72 | 0.59    | 14.99 | 1.01         | 25.65 |
| 22                         | 22 / 23                          | 1.65         | 41.91 | 1.77         | 44.86 | 0.54    | 13.72 | 0.59    | 14.99 | 1.13         | 28.70 |
| 24                         | 24 / 25                          | 1.75         | 44.45 | 1.89         | 48.03 | 0.54    | 13.72 | 0.59    | 14.99 | 1.26         | 32.00 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

83723

III

Matrix I Pyle

26500

Pyle

5015

Crimp Rear Release Matrix

22992

Class I

Back-

Shells

Options

Others

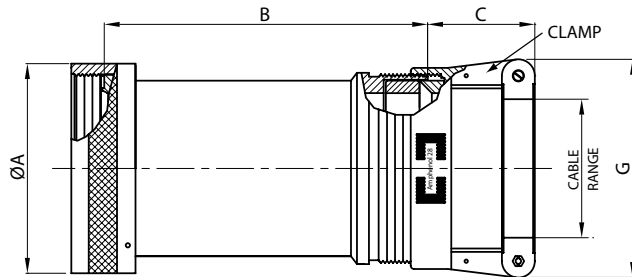
### For Connector Family J

**26482 Matrix Series 2**

**5015 Matrix (MS345X)**

**83723 Matrix & Pyle Series III**

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III



**MIL Part Number**  
**M85049 / 11 -10 W**

MIL Series: \_\_\_\_\_  
Slash Sheet: \_\_\_\_\_  
11: Straight, Spin Coupling

Finish:  
See Table-2  
(pg. 486)

Dash Number:  
See Table-A

**TABLE - A**

| MIL PART NUMBER DESIGNATOR |         | CONNECTOR SHELL SIZE | A DIA. (MAX) |       | B (MAX) |       | C (REF) L MAX |       | G (MAX) L MAX |       | CABLE RANGE |       |          |       |
|----------------------------|---------|----------------------|--------------|-------|---------|-------|---------------|-------|---------------|-------|-------------|-------|----------|-------|
|                            |         |                      | INCH         | MM    | INCH    | MM    | INCH          | MM    | INCH          | MM    | MIN WIRE    |       | MAX WIRE |       |
| SHELL SIZE                 | DASH NO |                      |              |       |         |       |               |       |               |       | INCH        | MM    | INCH     | MM    |
| 08                         | 05      | 8                    | 0.62         | 15.67 | 2.13    | 54.10 | 1.03          | 26.09 | 0.96          | 24.31 | 0.13        | 3.18  | 0.25     | 6.35  |
|                            | 06      |                      | 0.62         | 15.67 | 3.13    | 79.50 | 1.03          | 26.09 | 0.96          | 24.31 | 0.13        | 3.18  | 0.25     | 6.35  |
|                            | 07*     |                      | 0.62         | 15.67 | 2.88    | 73.15 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 08*     |                      | 0.62         | 15.67 | 3.88    | 98.55 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
| 10                         | 09      | 10                   | 0.73         | 18.64 | 2.13    | 54.10 | 1.03          | 26.09 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 10      |                      | 0.73         | 18.64 | 3.13    | 79.50 | 1.03          | 26.09 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 11*     |                      | 0.73         | 18.64 | 2.88    | 73.15 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 12*     |                      | 0.73         | 18.64 | 3.88    | 98.55 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 136     |                      | 0.73         | 18.64 | 2.13    | 54.10 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.38     | 9.53  |
|                            | 137     |                      | 0.73         | 18.64 | 3.13    | 79.50 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.38     | 9.53  |
| 12                         | 13      | 7/12                 | 0.86         | 21.79 | 2.13    | 54.10 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 14      |                      | 0.86         | 21.79 | 3.13    | 79.50 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 15*     |                      | 0.86         | 21.79 | 2.88    | 73.15 | 1.03          | 26.09 | 1.33          | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 16*     |                      | 0.86         | 21.79 | 3.88    | 98.55 | 1.03          | 26.09 | 1.33          | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 111     |                      | 0.86         | 21.79 | 2.13    | 54.10 | 1.03          | 26.09 | 1.33          | 33.83 | 0.35        | 8.89  | 0.50     | 12.70 |
|                            | 114     |                      | 0.86         | 21.79 | 2.13    | 54.10 | 1.03          | 26.09 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 115     |                      | 0.86         | 21.79 | 3.13    | 79.50 | 1.03          | 26.09 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 138     |                      | 0.86         | 21.79 | 2.13    | 54.10 | 1.03          | 26.09 | 1.33          | 33.83 | 0.35        | 8.89  | 0.50     | 12.70 |
|                            | 139     |                      | 0.86         | 21.79 | 3.13    | 79.50 | 1.03          | 26.09 | 1.33          | 33.83 | 0.35        | 8.89  | 0.50     | 12.70 |
| 14                         | 17      | 12/14                | 0.98         | 24.99 | 2.13    | 54.10 | 1.03          | 26.09 | 1.33          | 33.83 | 0.35        | 8.89  | 0.58     | 14.61 |
|                            | 18      |                      | 0.98         | 24.99 | 3.13    | 79.50 | 1.03          | 26.09 | 1.33          | 33.83 | 0.35        | 8.89  | 0.58     | 14.61 |
|                            | 19*     |                      | 0.98         | 24.99 | 2.88    | 73.15 | 1.06          | 26.90 | 1.55          | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 20*     |                      | 0.98         | 24.99 | 3.88    | 98.55 | 1.06          | 26.90 | 1.55          | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 116     |                      | 0.98         | 24.99 | 2.13    | 54.10 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 117     |                      | 0.98         | 24.99 | 3.13    | 79.50 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 150     |                      | 0.98         | 24.99 | 2.13    | 54.10 | 1.03          | 26.09 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 151     |                      | 0.98         | 24.99 | 3.13    | 79.50 | 1.03          | 26.09 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
| 16                         | 21      | 19/16                | 1.11         | 28.24 | 2.13    | 54.10 | 1.06          | 26.90 | 1.55          | 39.40 | 0.50        | 12.70 | 0.70     | 17.78 |
|                            | 22      |                      | 1.11         | 28.24 | 3.13    | 79.50 | 1.06          | 26.90 | 1.55          | 39.40 | 0.50        | 12.70 | 0.70     | 17.78 |
|                            | 23*     |                      | 1.11         | 28.24 | 2.88    | 73.15 | 1.16          | 29.36 | 1.77          | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 24*     |                      | 1.11         | 28.24 | 3.88    | 98.55 | 1.16          | 29.36 | 1.77          | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 112     |                      | 1.11         | 28.24 | 2.13    | 54.10 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 113     |                      | 1.11         | 28.24 | 3.13    | 79.50 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |

\* Denotes Style-2 (see page 486)

For more cable entry and length options see page 486 or email: [sales@backshellworld.com](mailto:sales@backshellworld.com)

All dimensions for reference only.

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### For Connector Family J

**26482 Matrix Series 2**

**5015 Matrix (MS345X)**

**83723 Matrix & Pyle Series III**

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III

| TABLE – A                     |         |                         |              |       |         |        |                  |       |                  |       |             |       |          |       |
|-------------------------------|---------|-------------------------|--------------|-------|---------|--------|------------------|-------|------------------|-------|-------------|-------|----------|-------|
| MIL PART NUMBER<br>DESIGNATOR |         | CONNECTOR<br>SHELL SIZE | A DIA. (MAX) |       | B (MAX) |        | C (REF)<br>L MAX |       | G (MAX)<br>L MAX |       | CABLE RANGE |       |          |       |
|                               |         |                         | INCH         | MM    | INCH    | MM     | INCH             | MM    | INCH             | MM    | MIN WIRE    |       | MAX WIRE |       |
| SHELL SIZE                    | DASH NO |                         | INCH         | MM    | INCH    | MM     | INCH             | MM    | INCH             | MM    | INCH        | MM    | INCH     | MM    |
| 16, cont.                     | 118     | 19/16                   | 1.11         | 28.24 | 2.13    | 54.10  | 1.03             | 26.09 | 1.33             | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                               | 119     |                         | 1.11         | 28.24 | 3.13    | 79.50  | 1.03             | 26.09 | 1.33             | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                               | 152     |                         | 1.11         | 28.24 | 2.13    | 54.10  | 1.03             | 26.09 | 0.96             | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                               | 153     |                         | 1.11         | 28.24 | 3.13    | 79.50  | 1.03             | 26.09 | 0.96             | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
| 18                            | 25      | 27/18                   | 1.22         | 30.94 | 2.13    | 54.10  | 1.03             | 26.09 | 1.33             | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                               | 26      |                         | 1.22         | 30.94 | 3.13    | 79.50  | 1.03             | 26.09 | 1.33             | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                               | 27      |                         | 1.22         | 30.94 | 2.13    | 54.10  | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                               | 28      |                         | 1.22         | 30.94 | 3.13    | 79.50  | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                               | 29*     |                         | 1.22         | 30.94 | 2.88    | 73.15  | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                               | 30*     |                         | 1.22         | 30.94 | 3.88    | 98.55  | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                               | 120     |                         | 1.22         | 30.94 | 2.13    | 54.10  | 1.03             | 26.09 | 0.96             | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                               | 121     |                         | 1.22         | 30.94 | 3.13    | 79.50  | 1.03             | 26.09 | 0.96             | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                               | 122     |                         | 1.22         | 30.94 | 2.13    | 54.10  | 1.03             | 26.09 | 1.15             | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                               | 123     |                         | 1.22         | 30.94 | 3.13    | 79.50  | 1.03             | 26.09 | 1.15             | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
| 20                            | 31      | 37/20                   | 1.35         | 34.16 | 3.13    | 79.50  | 1.03             | 26.09 | 1.33             | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                               | 32      |                         | 1.35         | 34.16 | 4.13    | 104.90 | 1.03             | 26.09 | 1.33             | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                               | 33      |                         | 1.35         | 34.16 | 3.13    | 79.50  | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                               | 34      |                         | 1.35         | 34.16 | 4.13    | 104.90 | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                               | 35*     |                         | 1.35         | 34.16 | 3.88    | 98.55  | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                               | 36*     |                         | 1.35         | 34.16 | 4.88    | 123.95 | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                               | 37*     |                         | 1.35         | 34.16 | 3.88    | 98.55  | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                               | 38*     |                         | 1.35         | 34.16 | 4.88    | 123.95 | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                               | 124     |                         | 1.35         | 34.16 | 3.13    | 79.50  | 1.03             | 26.09 | 1.15             | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                               | 125     |                         | 1.35         | 34.16 | 4.13    | 104.90 | 1.03             | 26.09 | 1.15             | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                               | 140     |                         | 1.35         | 34.16 | 3.13    | 79.50  | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.90     | 22.96 |
|                               | 141     |                         | 1.35         | 34.16 | 4.13    | 104.90 | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.90     | 22.96 |
|                               | 22      |                         | 39           | 22    | 1.47    | 37.29  | 3.13             | 79.50 | 1.03             | 26.09 | 1.33        | 33.83 | 0.35     | 8.89  |
| 40                            |         | 1.47                    | 37.29        |       | 4.13    | 104.90 | 1.03             | 26.09 | 1.33             | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
| 41                            |         | 1.47                    | 37.29        |       | 3.13    | 79.50  | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
| 42                            |         | 1.47                    | 37.29        |       | 4.13    | 104.90 | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
| 43                            |         | 1.47                    | 37.29        |       | 3.13    | 79.50  | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
| 44                            |         | 1.47                    | 37.29        |       | 4.13    | 104.90 | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
| 45*                           |         | 1.47                    | 37.29        |       | 3.88    | 98.55  | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
| 46*                           |         | 1.47                    | 37.29        |       | 4.88    | 123.95 | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
| 126                           |         | 1.47                    | 37.29        |       | 3.13    | 79.50  | 1.03             | 26.09 | 0.96             | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
| 127                           |         | 1.47                    | 37.29        |       | 4.13    | 104.90 | 1.03             | 26.09 | 0.96             | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
| 128                           |         | 1.47                    | 37.29        |       | 3.13    | 79.50  | 1.03             | 26.09 | 1.15             | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
| 129                           |         | 1.47                    | 37.29        |       | 4.13    | 104.90 | 1.03             | 26.09 | 1.15             | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
| 142                           |         | 1.47                    | 37.29        |       | 3.13    | 79.50  | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.03     | 26.14 |
| 143                           |         | 1.47                    | 37.29        |       | 4.13    | 104.90 | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.03     | 26.14 |
| 24                            | 47      | 24                      | 1.59         | 40.46 | 3.13    | 79.50  | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                               | 48      |                         | 1.59         | 40.46 | 4.13    | 104.90 | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                               | 49      |                         | 1.59         | 40.46 | 3.13    | 79.50  | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.81     | 20.62 |
|                               | 50      |                         | 1.59         | 40.46 | 4.13    | 104.90 | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.81     | 20.62 |
|                               | 51      |                         | 1.59         | 40.46 | 3.13    | 79.50  | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                               | 52      |                         | 1.59         | 40.46 | 4.13    | 104.90 | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                               | 53*     |                         | 1.59         | 40.46 | 3.88    | 98.55  | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                               | 54*     |                         | 1.59         | 40.46 | 4.88    | 123.95 | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                               | 130     |                         | 1.59         | 40.46 | 3.13    | 79.50  | 1.03             | 26.09 | 1.33             | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                               | 131     |                         | 1.59         | 40.46 | 4.13    | 104.90 | 1.03             | 26.09 | 1.33             | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                               | 144     |                         | 1.59         | 40.46 | 3.13    | 79.50  | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.14     | 29.06 |
|                               | 145     |                         | 1.59         | 40.46 | 4.13    | 104.90 | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.14     | 29.06 |
| 28                            | 55      | 28                      | 1.97         | 50.01 | 3.13    | 79.50  | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                               | 56      |                         | 1.97         | 50.01 | 4.13    | 104.90 | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                               | 57      |                         | 1.97         | 50.01 | 3.13    | 79.50  | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                               | 58      |                         | 1.97         | 50.01 | 4.13    | 104.90 | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |

\* Denotes Style-2 (see page 486). For more cable entry and length options see page 486 or email: [sales@backshellworld.com](mailto:sales@backshellworld.com). All dimensions for reference only.

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III

HD

Dualok

II

I

SJT

Accessories

Aquacon

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PCB

Fiber

Optics

Contacts

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EMI Filter

Transient

26482

Matrix 2

83723

III

Matrix I Pyle

26500

Pyle

5015

Crimp Rear Release Matrix

22992

Class I

Back-

Shells

Options

Others

### For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III

| TABLE – A                     |         |                         |              |       |         |        |                  |       |                  |        |             |       |             |        |
|-------------------------------|---------|-------------------------|--------------|-------|---------|--------|------------------|-------|------------------|--------|-------------|-------|-------------|--------|
| MIL PART NUMBER<br>DESIGNATOR |         | CONNECTOR<br>SHELL SIZE | A DIA. (MAX) |       | B (MAX) |        | C (REF)<br>L MAX |       | G (MAX)<br>L MAX |        | CABLE RANGE |       |             |        |
|                               |         |                         | INCH         | MM    | INCH    | MM     | INCH             | MM    | INCH             | MM     | MIN<br>WIRE |       | MAX<br>WIRE |        |
| SHELL SIZE                    | DASH NO |                         | INCH         | MM    | INCH    | MM     | INCH             | MM    | INCH             | MM     | INCH        | MM    | INCH        | MM     |
| 28, cont.                     | 59      | 28                      | 1.97         | 50.01 | 3.13    | 79.50  | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75  |
|                               | 60      |                         | 1.97         | 50.01 | 4.13    | 104.90 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75  |
|                               | 61      |                         | 1.97         | 50.01 | 3.13    | 79.50  | 1.50             | 38.10 | 23.63            | 600.20 | 1.00        | 25.40 | 1.38        | 34.93  |
|                               | 62      |                         | 1.97         | 50.01 | 4.13    | 104.90 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93  |
| 32                            | 63      | 32                      | 2.22         | 56.36 | 3.13    | 79.50  | 1.16             | 29.36 | 1.77             | 44.96  | 0.63        | 15.88 | 0.94        | 23.80  |
|                               | 64      |                         | 2.22         | 56.36 | 4.13    | 104.90 | 1.16             | 29.36 | 1.77             | 44.96  | 0.63        | 15.88 | 0.94        | 23.80  |
|                               | 65      |                         | 2.22         | 56.36 | 3.13    | 79.50  | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 12.50       | 317.50 |
|                               | 66      |                         | 2.22         | 56.36 | 4.13    | 104.90 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75  |
|                               | 67      |                         | 2.22         | 56.36 | 3.13    | 79.50  | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93  |
|                               | 68      |                         | 2.22         | 56.36 | 4.13    | 104.90 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93  |
|                               | 69      |                         | 2.22         | 56.36 | 3.13    | 79.50  | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28  |
|                               | 70      |                         | 2.22         | 56.36 | 4.13    | 104.90 | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28  |
| 36                            | 71      | 36                      | 2.47         | 62.71 | 4.13    | 104.90 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75  |
|                               | 72      |                         | 2.47         | 62.71 | 5.13    | 130.30 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75  |
|                               | 73      |                         | 2.47         | 62.71 | 4.13    | 104.90 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93  |
|                               | 74      |                         | 2.47         | 62.71 | 5.13    | 130.30 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93  |
|                               | 75      |                         | 2.47         | 62.71 | 4.13    | 104.90 | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28  |
|                               | 76      |                         | 2.47         | 62.71 | 5.13    | 130.30 | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28  |
|                               | 77*     |                         | 2.47         | 62.71 | 5.01    | 127.25 | 1.83             | 46.48 | 3.02             | 76.71  | 1.44        | 36.50 | 1.88        | 47.63  |
|                               | 78*     |                         | 2.47         | 62.71 | 6.01    | 152.65 | 1.83             | 46.48 | 3.02             | 76.71  | 1.44        | 36.50 | 1.88        | 47.63  |
|                               | 132     |                         | 2.47         | 62.71 | 4.13    | 104.90 | 1.06             | 26.90 | 1.55             | 39.40  | 0.50        | 12.70 | 0.75        | 19.05  |
|                               | 133     |                         | 2.47         | 62.71 | 5.13    | 130.30 | 1.06             | 26.90 | 1.55             | 39.40  | 0.50        | 12.70 | 0.75        | 19.05  |
|                               | 146     |                         | 2.47         | 62.71 | 4.13    | 104.90 | 1.83             | 46.48 | 3.02             | 76.71  | 1.44        | 36.50 | 1.84        | 46.74  |
|                               | 147     |                         | 2.47         | 62.71 | 5.13    | 130.30 | 1.83             | 46.48 | 3.02             | 76.71  | 1.44        | 36.50 | 1.84        | 46.74  |
|                               | 148     |                         | 2.47         | 62.71 | 4.13    | 104.90 | 1.16             | 29.36 | 1.77             | 44.96  | 0.63        | 15.88 | 0.94        | 23.80  |
|                               | 149     |                         | 2.47         | 62.71 | 5.13    | 130.30 | 1.16             | 29.36 | 1.77             | 44.96  | 0.63        | 15.88 | 0.94        | 23.80  |
| 40                            | 79      | 40                      | 2.72         | 69.06 | 4.13    | 104.90 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75  |
|                               | 80      |                         | 2.72         | 69.06 | 5.13    | 130.30 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75  |
|                               | 81      |                         | 2.72         | 69.06 | 4.13    | 104.90 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93  |
|                               | 82      |                         | 2.72         | 69.06 | 5.13    | 130.30 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93  |
|                               | 83      |                         | 2.72         | 69.06 | 4.13    | 104.90 | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28  |
|                               | 84      |                         | 2.72         | 69.06 | 5.13    | 130.30 | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28  |
|                               | 85      |                         | 2.72         | 69.06 | 4.13    | 104.90 | 1.83             | 46.48 | 3.02             | 76.71  | 1.44        | 36.50 | 1.88        | 47.63  |
|                               | 86      |                         | 2.72         | 69.06 | 5.13    | 130.30 | 1.83             | 46.48 | 3.02             | 76.71  | 1.44        | 36.50 | 1.88        | 47.63  |
|                               | 134     |                         | 2.72         | 69.06 | 4.13    | 104.90 | 1.06             | 26.90 | 1.55             | 39.40  | 0.50        | 12.70 | 0.75        | 19.05  |
|                               | 135     |                         | 2.72         | 69.06 | 5.13    | 130.30 | 1.06             | 26.90 | 1.55             | 39.40  | 0.50        | 12.70 | 0.75        | 19.05  |
|                               | 156     |                         | 2.72         | 69.06 | 4.13    | 104.90 | 1.16             | 29.36 | 1.77             | 44.96  | 0.63        | 15.88 | 0.94        | 23.80  |
|                               | 157     |                         | 2.72         | 69.06 | 5.13    | 130.30 | 1.16             | 29.36 | 1.77             | 44.96  | 0.63        | 15.88 | 0.94        | 23.80  |
| 44                            | 87      | 44                      | 2.97         | 75.41 | 4.13    | 104.90 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75  |
|                               | 88      |                         | 2.97         | 75.41 | 5.13    | 130.30 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75  |
|                               | 89      |                         | 2.97         | 75.41 | 4.13    | 104.90 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93  |
|                               | 90      |                         | 2.97         | 75.41 | 5.13    | 130.30 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93  |
|                               | 91      |                         | 2.97         | 75.41 | 4.13    | 104.90 | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28  |
|                               | 92      |                         | 2.97         | 75.41 | 5.13    | 130.30 | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28  |
|                               | 93      |                         | 2.97         | 75.41 | 4.13    | 104.90 | 1.83             | 46.48 | 3.02             | 76.71  | 1.44        | 36.50 | 1.88        | 47.63  |
|                               | 94      |                         | 2.97         | 75.41 | 5.13    | 130.30 | 1.83             | 46.48 | 3.02             | 76.71  | 1.44        | 36.50 | 1.88        | 47.63  |
|                               | 154     |                         | 2.97         | 75.41 | 4.13    | 104.90 | 1.16             | 29.36 | 1.77             | 44.96  | 0.63        | 15.88 | 0.94        | 23.80  |
|                               | 155     |                         | 2.97         | 75.41 | 5.13    | 130.30 | 1.16             | 29.36 | 1.77             | 44.96  | 0.63        | 15.88 | 0.94        | 23.80  |
| 48                            | 95      | 48                      | 3.22         | 81.76 | 4.13    | 104.90 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75  |
|                               | 96      |                         | 3.22         | 81.76 | 5.13    | 130.30 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75  |
|                               | 97      |                         | 3.22         | 81.76 | 4.13    | 104.90 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93  |
|                               | 98      |                         | 3.22         | 81.76 | 5.13    | 130.30 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93  |
|                               | 99      |                         | 3.22         | 81.76 | 4.13    | 104.90 | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28  |
|                               | 100     |                         | 3.22         | 81.76 | 5.13    | 130.30 | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28  |
|                               | 101     |                         | 3.22         | 81.76 | 4.13    | 104.90 | 1.83             | 46.48 | 3.02             | 76.71  | 1.44        | 36.50 | 1.88        | 47.63  |

\* Denotes Style-2 (see page 486). For more cable entry and length options see page 486 or email: sales@backshellworld.com.

All dimensions for reference only.

# Environmental Backshell

90° and 45°, Spin Coupling

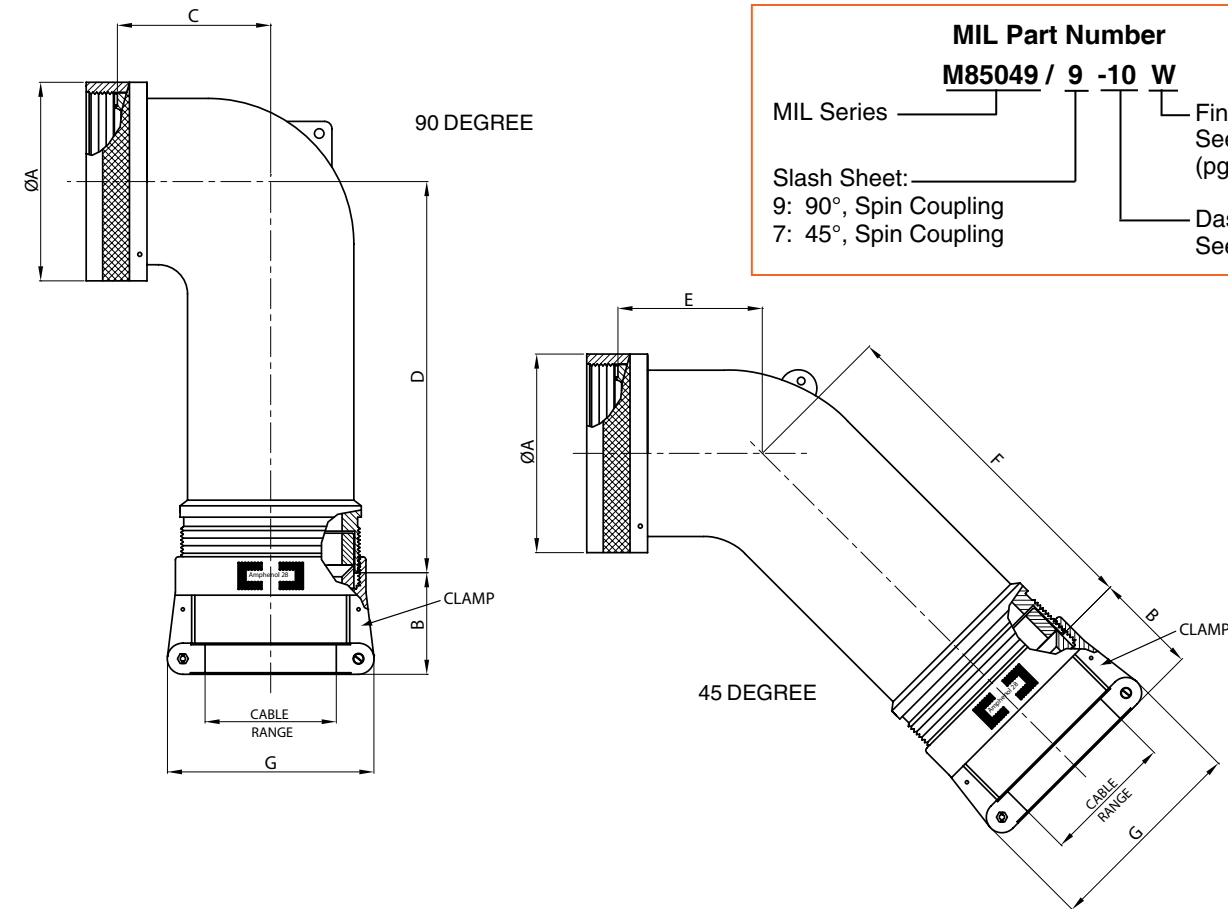
For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family “J”, includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III



| TABLE – A                        |            |                         |                 |       |         |       |         |       |         |       |         |       |         |       |         |       |             |             |      |       |
|----------------------------------|------------|-------------------------|-----------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|-------------|-------------|------|-------|
| MIL PART<br>NUMBER<br>DESIGNATOR |            | CONNECTOR<br>SHELL SIZE | A DIA.<br>(MAX) |       | B (REF) |       | C (MAX) |       | D (MAX) |       | E (MAX) |       | F (MAX) |       | G (MAX) |       | CABLE RANGE |             |      |       |
|                                  |            |                         | INCH            | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | MIN<br>WIRE | MAX<br>WIRE |      |       |
| SHELL<br>SIZE                    | DASH<br>NO |                         | INCH            | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH        | MM          | INCH | MM    |
| 08                               | 3          | 8                       | 0.62            | 15.67 | 1.03    | 26.09 | 0.67    | 17.02 | 1.26    | 32.00 | 0.63    | 16.00 | 1.25    | 31.75 | 0.96    | 24.31 | 0.13        | 3.18        | 0.25 | 6.35  |
| 10                               | 4          | 10                      | 0.73            | 18.64 | 1.03    | 26.09 | 0.76    | 19.30 | 1.98    | 50.29 | 0.69    | 17.53 | 1.92    | 48.77 | 0.96    | 24.31 | 0.13        | 3.18        | 0.31 | 7.92  |
|                                  | 49*        |                         | 0.73            | 18.64 | 1.03    | 26.09 | 1.52    | 38.61 | 2.00    | 50.80 | 1.50    | 38.10 | 1.98    | 50.29 | 1.15    | 29.08 | 0.25        | 6.35        | 0.44 | 11.10 |
|                                  | 5          |                         | 0.73            | 18.64 | 1.03    | 26.09 | 0.76    | 19.30 | 1.38    | 35.05 | 0.69    | 17.53 | 1.31    | 33.27 | 1.15    | 29.08 | 0.25        | 6.35        | 0.38 | 9.53  |
| 12                               | 6          | 7/12                    | 0.86            | 21.79 | 1.03    | 26.09 | 0.77    | 19.56 | 2.00    | 50.80 | 0.75    | 19.05 | 1.98    | 50.29 | 0.96    | 24.31 | 0.13        | 3.18        | 0.31 | 7.92  |
|                                  | 71*        |                         | 0.86            | 21.79 | 1.03    | 26.09 | 1.81    | 45.97 | 2.16    | 54.86 | 1.65    | 41.91 | 2.18    | 55.37 | 1.33    | 33.83 | 0.35        | 8.89        | 0.63 | 15.88 |
|                                  | 7          |                         | 0.86            | 21.79 | 1.03    | 26.09 | 0.77    | 19.56 | 2.00    | 50.80 | 0.75    | 19.05 | 1.98    | 50.29 | 1.15    | 29.08 | 0.25        | 6.35        | 0.44 | 11.10 |
|                                  | 8          |                         | 0.86            | 21.79 | 1.03    | 26.09 | 0.77    | 19.56 | 1.40    | 35.56 | 0.75    | 19.05 | 1.98    | 50.29 | 1.33    | 33.83 | 0.35        | 8.89        | 0.50 | 12.70 |
| 14                               | 9          | 12/14                   | 0.98            | 24.99 | 1.03    | 26.09 | 0.87    | 22.10 | 2.07    | 52.58 | 0.81    | 20.57 | 2.07    | 52.58 | 1.15    | 29.08 | 0.25        | 6.35        | 0.44 | 11.10 |
|                                  | 10         |                         | 0.98            | 24.99 | 1.03    | 26.09 | 0.87    | 22.10 | 1.72    | 43.69 | 0.81    | 20.57 | 1.72    | 43.69 | 1.33    | 33.83 | 0.35        | 8.89        | 0.58 | 14.61 |
|                                  | 50*        |                         | 0.98            | 24.99 | 1.06    | 26.90 | 1.89    | 48.01 | 2.33    | 59.18 | 1.84    | 46.74 | 2.37    | 60.20 | 1.55    | 39.40 | 0.50        | 12.70       | 0.75 | 19.05 |
|                                  | 74         |                         | 0.98            | 24.99 | 1.03    | 26.09 | 0.87    | 22.10 | 2.07    | 52.58 | 0.81    | 20.57 | 2.07    | 52.58 | 0.96    | 24.31 | 0.13        | 3.18        | 0.31 | 7.92  |
| 16                               | 11         | 19/16                   | 1.11            | 28.24 | 1.03    | 26.09 | 1.05    | 26.67 | 2.16    | 54.86 | 0.91    | 23.11 | 2.18    | 55.37 | 1.15    | 29.08 | 0.25        | 6.35        | 0.44 | 11.10 |
|                                  | 12         |                         | 1.11            | 28.24 | 1.06    | 26.90 | 1.05    | 26.67 | 1.81    | 45.97 | 0.91    | 23.11 | 1.82    | 46.23 | 1.55    | 39.40 | 0.50        | 12.70       | 0.70 | 17.78 |
|                                  | 40         |                         | 1.11            | 28.24 | 1.03    | 26.09 | 1.05    | 26.67 | 2.16    | 54.86 | 0.91    | 23.11 | 2.18    | 55.37 | 1.33    | 33.83 | 0.35        | 8.89        | 0.63 | 15.88 |
|                                  | 51*        |                         | 1.11            | 28.24 | 1.16    | 29.36 | 2.04    | 51.82 | 2.44    | 61.98 | 1.94    | 49.28 | 2.52    | 64.01 | 1.77    | 44.96 | 0.63        | 15.88       | 0.94 | 23.80 |
|                                  | 75         |                         | 1.11            | 28.24 | 1.03    | 26.09 | 1.05    | 26.67 | 2.16    | 54.86 | 0.91    | 23.11 | 2.18    | 55.37 | 0.96    | 24.31 | 0.13        | 3.18        | 0.31 | 7.92  |

\* Denotes Style-2 (see page 486)  
For more cable entry and length options see page 486 or email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

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Options

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#### For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III

| TABLE A                          |            |                         |                 |       |         |       |         |       |         |       |         |       |         |       |         |       |             |             |      |       |
|----------------------------------|------------|-------------------------|-----------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|-------------|-------------|------|-------|
| MIL PART<br>NUMBER<br>DESIGNATOR |            | CONNECTOR<br>SHELL SIZE | A DIA.<br>(MAX) |       | B (REF) |       | C (MAX) |       | D (MAX) |       | E (MAX) |       | F (MAX) |       | G (MAX) |       | CABLE RANGE |             |      |       |
|                                  |            |                         | INCH            | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | MIN<br>WIRE | MAX<br>WIRE |      |       |
| SHELL<br>SIZE                    | DASH<br>NO |                         | INCH            | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH        | MM          | INCH | MM    |
| 18                               | 13         | 27/18                   | 1.22            | 30.94 | 1.03    | 26.09 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 1.33    | 33.83 | 0.35        | 8.89        | 0.63 | 15.88 |
|                                  | 14         |                         | 1.22            | 30.94 | 1.16    | 29.36 | 1.14    | 28.96 | 1.98    | 50.29 | 1.09    | 27.69 | 2.00    | 50.80 | 1.77    | 44.96 | 0.63        | 15.88       | 0.78 | 19.79 |
|                                  | 41         |                         | 1.22            | 30.94 | 1.03    | 26.09 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 0.96    | 24.31 | 0.13        | 3.18        | 0.31 | 7.92  |
|                                  | 42         |                         | 1.22            | 30.94 | 1.03    | 26.09 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 1.15    | 29.08 | 0.25        | 6.35        | 0.44 | 11.10 |
|                                  | 52         |                         | 1.22            | 30.94 | 1.06    | 26.90 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 1.55    | 39.40 | 0.50        | 12.70       | 0.75 | 19.05 |
|                                  | 72*        |                         | 1.22            | 30.94 | 1.16    | 29.36 | 2.05    | 52.07 | 2.44    | 61.98 | 1.94    | 49.28 | 2.52    | 64.01 | 1.77    | 44.96 | 0.63        | 15.88       | 0.94 | 23.80 |
| 20                               | 15         | 37/20                   | 1.35            | 34.16 | 1.03    | 26.09 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 1.33    | 33.83 | 0.35        | 8.89        | 0.63 | 15.88 |
|                                  | 16         |                         | 1.35            | 34.16 | 1.16    | 29.36 | 1.14    | 28.96 | 1.98    | 50.29 | 1.09    | 27.69 | 2.00    | 50.80 | 1.77    | 44.96 | 0.63        | 15.88       | 0.90 | 22.96 |
|                                  | 43         |                         | 1.35            | 34.16 | 1.03    | 26.09 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 1.15    | 29.08 | 0.25        | 6.35        | 0.44 | 11.10 |
|                                  | 54         |                         | 1.35            | 34.16 | 1.06    | 26.90 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 1.55    | 39.40 | 0.50        | 12.70       | 0.75 | 19.05 |
|                                  | 55         |                         | 1.35            | 34.16 | 1.38    | 34.93 | 2.14    | 54.36 | 2.61    | 66.29 | 2.06    | 52.32 | 2.57    | 65.28 | 2.11    | 53.67 | 0.88        | 22.23       | 1.25 | 31.75 |
| 22                               | 17         | 22                      | 1.47            | 37.29 | 1.06    | 26.90 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.55    | 39.40 | 0.50        | 12.70       | 0.75 | 19.05 |
|                                  | 18         |                         | 1.47            | 37.29 | 1.38    | 34.93 | 1.29    | 32.77 | 2.09    | 53.09 | 1.19    | 30.23 | 2.16    | 54.86 | 2.11    | 53.67 | 0.88        | 22.23       | 1.03 | 26.14 |
|                                  | 44         |                         | 1.47            | 37.29 | 1.03    | 26.09 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 0.96    | 24.31 | 0.13        | 3.18        | 0.31 | 7.92  |
|                                  | 45         |                         | 1.47            | 37.29 | 1.03    | 26.09 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.15    | 29.08 | 0.25        | 6.35        | 0.44 | 11.10 |
|                                  | 56         |                         | 1.47            | 37.29 | 1.03    | 26.09 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.33    | 33.83 | 0.35        | 8.89        | 0.63 | 15.88 |
|                                  | 57         |                         | 1.47            | 37.29 | 1.16    | 29.36 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.77    | 44.96 | 0.63        | 15.88       | 0.94 | 23.80 |
|                                  | 58*        |                         | 1.47            | 37.29 | 1.38    | 34.93 | 2.14    | 54.36 | 2.61    | 66.29 | 2.06    | 52.32 | 2.57    | 65.28 | 2.11    | 53.67 | 0.88        | 22.23       | 1.25 | 31.75 |
| 24                               | 19         | 24                      | 1.59            | 40.46 | 1.06    | 26.90 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.55    | 39.40 | 0.50        | 12.70       | 0.75 | 19.05 |
|                                  | 20         |                         | 1.59            | 40.46 | 1.38    | 34.93 | 1.29    | 32.77 | 2.09    | 53.09 | 1.19    | 30.23 | 2.16    | 54.86 | 2.11    | 53.67 | 0.88        | 22.23       | 1.14 | 29.06 |
|                                  | 46         |                         | 1.59            | 40.46 | 1.03    | 26.09 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.33    | 33.83 | 0.35        | 8.89        | 0.63 | 15.88 |
|                                  | 59         |                         | 1.59            | 40.46 | 1.16    | 29.36 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.77    | 44.96 | 0.63        | 15.88       | 0.94 | 23.80 |
|                                  | 73*        |                         | 1.59            | 40.46 | 1.38    | 34.93 | 2.15    | 54.61 | 2.61    | 66.29 | 2.06    | 52.32 | 2.57    | 65.28 | 2.12    | 53.75 | 0.88        | 22.23       | 1.25 | 31.75 |
| 28                               | 21         | 28                      | 1.97            | 50.01 | 1.16    | 29.36 | 1.39    | 35.31 | 2.61    | 66.29 | 1.31    | 33.27 | 2.57    | 65.28 | 1.77    | 44.96 | 0.63        | 15.88       | 0.94 | 23.80 |
|                                  | 22         |                         | 1.97            | 50.01 | 1.50    | 38.10 | 1.39    | 35.31 | 2.26    | 57.40 | 1.31    | 33.27 | 2.22    | 56.39 | 2.36    | 60.02 | 1.00        | 25.40       | 1.38 | 34.93 |
|                                  | 60         |                         | 1.97            | 50.01 | 1.06    | 26.90 | 1.39    | 35.31 | 2.61    | 66.29 | 1.31    | 33.27 | 2.57    | 65.28 | 1.55    | 39.40 | 0.50        | 12.70       | 0.75 | 19.05 |
|                                  | 61         |                         | 1.97            | 50.01 | 1.38    | 34.93 | 1.39    | 35.31 | 2.61    | 66.29 | 1.31    | 33.27 | 2.57    | 65.28 | 2.11    | 53.67 | 0.88        | 22.23       | 1.25 | 31.75 |
| 32                               | 23         | 32                      | 2.22            | 56.36 | 1.16    | 29.36 | 1.74    | 44.20 | 2.86    | 72.64 | 1.38    | 35.05 | 2.67    | 67.82 | 1.77    | 44.96 | 0.63        | 15.88       | 0.94 | 23.80 |
|                                  | 24         |                         | 2.22            | 56.36 | 1.38    | 34.93 | 1.74    | 44.20 | 2.86    | 72.64 | 1.38    | 35.05 | 2.67    | 67.82 | 2.11    | 53.67 | 0.88        | 22.23       | 1.25 | 31.75 |
|                                  | 25         |                         | 2.22            | 56.36 | 1.78    | 45.24 | 1.74    | 44.20 | 2.51    | 63.75 | 1.38    | 35.05 | 2.32    | 58.93 | 2.77    | 70.36 | 1.25        | 31.75       | 1.63 | 41.28 |
|                                  | 62         |                         | 2.22            | 56.36 | 1.50    | 38.10 | 1.74    | 44.20 | 2.86    | 72.64 | 1.38    | 35.05 | 2.67    | 67.82 | 2.36    | 60.02 | 1.00        | 25.40       | 1.38 | 34.93 |
| 36                               | 26         | 36                      | 2.47            | 62.71 | 1.16    | 29.36 | 1.94    | 49.28 | 2.83    | 71.88 | 1.41    | 35.81 | 2.76    | 70.10 | 1.77    | 44.96 | 0.63        | 15.88       | 0.94 | 23.80 |
|                                  | 27         |                         | 2.47            | 62.71 | 1.50    | 38.10 | 1.94    | 49.28 | 2.83    | 71.88 | 1.41    | 35.81 | 2.76    | 70.10 | 2.36    | 60.02 | 1.00        | 25.40       | 1.38 | 34.93 |
|                                  | 28         |                         | 2.47            | 62.71 | 1.83    | 46.48 | 1.94    | 49.28 | 2.48    | 62.99 | 1.41    | 35.81 | 2.41    | 61.21 | 3.02    | 76.71 | 1.44        | 36.50       | 1.84 | 46.74 |
|                                  | 47         |                         | 2.47            | 62.71 | 1.06    | 26.90 | 1.94    | 49.28 | 2.83    | 71.88 | 1.41    | 35.81 | 2.76    | 70.10 | 1.55    | 39.40 | 0.50        | 12.70       | 0.75 | 19.05 |
|                                  | 63         |                         | 2.47            | 62.71 | 1.38    | 34.93 | 1.94    | 49.28 | 2.83    | 71.88 | 1.41    | 35.81 | 2.76    | 70.10 | 2.11    | 53.67 | 0.88        | 22.23       | 1.25 | 31.75 |
|                                  | 64         |                         | 2.47            | 62.71 | 1.78    | 45.24 | 1.94    | 49.28 | 2.83    | 71.88 | 1.41    | 35.81 | 2.76    | 70.10 | 2.77    | 70.36 | 1.25        | 31.75       | 1.63 | 41.28 |
| 40                               | 29         | 40                      | 2.72            | 69.06 | 1.16    | 29.36 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 1.77    | 44.96 | 0.63        | 15.88       | 0.94 | 23.80 |
|                                  | 30         |                         | 2.72            | 69.06 | 1.50    | 38.10 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.36    | 60.02 | 1.00        | 25.40       | 1.38 | 34.93 |
|                                  | 31         |                         | 2.72            | 69.06 | 1.83    | 46.48 | 2.69    | 68.33 | 2.48    | 62.99 | 2.16    | 54.86 | 2.41    | 61.21 | 3.02    | 76.71 | 1.44        | 36.50       | 1.88 | 47.63 |
|                                  | 48         |                         | 2.72            | 69.06 | 1.06    | 26.90 | 1.94    | 49.28 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 1.55    | 39.40 | 0.50        | 12.70       | 0.75 | 19.05 |
|                                  | 65         |                         | 2.72            | 69.06 | 1.38    | 34.93 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.11    | 53.67 | 0.88        | 22.23       | 1.25 | 31.75 |
|                                  | 66         |                         | 2.72            | 69.06 | 1.78    | 45.24 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.77    | 70.36 | 1.25        | 31.75       | 1.63 | 41.28 |
| 44                               | 32         | 44                      | 2.97            | 75.41 | 1.16    | 29.36 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 1.77    | 44.96 | 0.63        | 15.88       | 0.94 | 23.80 |
|                                  | 33         |                         | 2.97            | 75.41 | 1.50    | 38.10 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.36    | 60.02 | 1.00        | 25.40       | 1.38 | 34.93 |
|                                  | 34         |                         | 2.97            | 75.41 | 1.83    | 46.48 | 2.69    | 68.33 | 2.48    | 62.99 | 2.16    | 54.86 | 2.41    | 61.21 | 3.02    | 76.71 | 1.44        | 36.50       | 1.88 | 47.63 |
|                                  | 67         |                         | 2.97            | 75.41 | 1.38    | 34.93 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.11    | 53.67 | 0.88        | 22.23       | 1.25 | 31.75 |
|                                  | 68         |                         | 2.97            | 75.41 | 1.78    | 45.24 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.77    | 70.36 | 1.25        | 31.75       | 1.63 | 41.28 |
| 48                               | 35         | 48                      | 3.22            | 81.76 | 1.16    | 29.36 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 1.77    | 44.96 | 0.63        | 15.88       | 0.94 | 23.80 |
|                                  | 36         |                         | 3.22            | 81.76 | 1.50    | 38.10 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.36    | 60.02 | 1.00        | 25.40       | 1.38 | 34.93 |
|                                  | 37         |                         | 3.22            | 81.76 | 1.83    | 46.48 | 2.69    | 68.33 | 2.48    | 62.99 | 2.16    | 54.86 | 2.41    | 61.21 | 3.02    | 76.71 | 1.44        | 36.50       | 1.88 | 47.63 |
|                                  | 69         |                         | 3.22            | 81.76 | 1.38    | 34.93 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.11    | 53.67 | 0.88        | 22.23       | 1.25 | 31.75 |
|                                  | 70         |                         | 3.22            | 81.76 | 1.78    | 45.24 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.77    | 70.36 | 1.25        | 31.75       | 1.63 | 41.28 |

\* Denotes Style-2 (see page 486)

For more cable entry and length options see page 486 or email:

# Non-Environmental EMI/RFI Backshell

## Straight, Spin Coupling

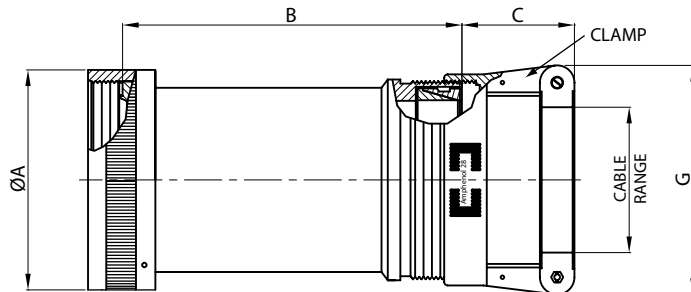
### For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III



**MIL Part Number**  
**M85049 / 25 -10 W**

MIL Series: M85049 / 25  
Finish: See Table-2 (pg. 486)  
Dash Number: See Table-A  
W: Wire Gauge

Slash Sheet: 25: Straight, Spin Coupling

| MIL PART NUMBER DESIGNATOR |         | CONNECTOR SHELL SIZE | TABLE-A      |       |         |       |               |       |               |       |             |       |          |       |
|----------------------------|---------|----------------------|--------------|-------|---------|-------|---------------|-------|---------------|-------|-------------|-------|----------|-------|
|                            |         |                      | A DIA. (MAX) |       | B (MAX) |       | C (REF) L MAX |       | G (MAX) L MAX |       | CABLE RANGE |       |          |       |
|                            |         |                      | INCH         | MM    | INCH    | MM    | INCH          | MM    | INCH          | MM    | MIN WIRE    |       | MAX WIRE |       |
| SHELL SIZE                 | DASH NO |                      |              |       |         |       |               |       |               |       | INCH        | MM    | INCH     | MM    |
| 8                          | 05      | 8                    | 0.62         | 15.67 | 2.13    | 54.10 | 1.03          | 26.09 | 0.96          | 24.31 | 0.13        | 3.18  | 0.25     | 6.35  |
|                            | 06      |                      | 0.62         | 15.67 | 3.13    | 79.50 | 1.03          | 26.09 | 0.96          | 24.31 | 0.13        | 3.18  | 0.25     | 6.35  |
|                            | 07*     |                      | 0.62         | 15.67 | 2.88    | 73.15 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 08*     |                      | 0.62         | 15.67 | 3.88    | 98.55 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
| 10                         | 09      | 10                   | 0.73         | 18.64 | 2.13    | 54.10 | 1.03          | 26.09 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 10      |                      | 0.73         | 18.64 | 3.13    | 79.50 | 1.03          | 26.09 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 11*     |                      | 0.73         | 18.64 | 2.88    | 73.15 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 12*     |                      | 0.73         | 18.64 | 3.88    | 98.55 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 136     |                      | 0.73         | 18.64 | 2.13    | 54.10 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.38     | 9.53  |
|                            | 137     |                      | 0.73         | 18.64 | 3.13    | 79.50 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.38     | 9.53  |
| 12                         | 13      | 7/12                 | 0.86         | 21.79 | 2.13    | 54.10 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 14      |                      | 0.86         | 21.79 | 3.13    | 79.50 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 15*     |                      | 0.86         | 21.79 | 2.88    | 73.15 | 1.03          | 26.09 | 1.33          | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 16*     |                      | 0.86         | 21.79 | 3.88    | 98.55 | 1.03          | 26.09 | 1.33          | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 111     |                      | 0.86         | 21.79 | 2.13    | 54.10 | 1.03          | 26.09 | 1.33          | 33.83 | 0.35        | 8.89  | 0.50     | 12.70 |
|                            | 114     |                      | 0.86         | 21.79 | 2.13    | 54.10 | 1.03          | 26.09 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 115     |                      | 0.86         | 21.79 | 3.13    | 79.50 | 1.03          | 26.09 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 138     |                      | 0.86         | 21.79 | 2.13    | 54.10 | 1.03          | 26.09 | 1.33          | 33.83 | 0.35        | 8.89  | 0.50     | 12.70 |
|                            | 139     |                      | 0.86         | 21.79 | 3.13    | 79.50 | 1.03          | 26.09 | 1.33          | 33.83 | 0.35        | 8.89  | 0.50     | 12.70 |
|                            | 17      |                      | 0.98         | 24.99 | 2.13    | 54.10 | 1.03          | 26.09 | 1.33          | 33.83 | 0.35        | 8.89  | 0.58     | 14.61 |
| 14                         | 18      | 12/14                | 0.98         | 24.99 | 3.13    | 79.50 | 1.03          | 26.09 | 1.33          | 33.83 | 0.35        | 8.89  | 0.58     | 14.61 |
|                            | 19*     |                      | 0.98         | 24.99 | 2.88    | 73.15 | 1.06          | 26.90 | 1.55          | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 20*     |                      | 0.98         | 24.99 | 3.88    | 98.55 | 1.06          | 26.90 | 1.55          | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 116     |                      | 0.98         | 24.99 | 2.13    | 54.10 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 117     |                      | 0.98         | 24.99 | 3.13    | 79.50 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 150     |                      | 0.98         | 24.99 | 2.13    | 54.10 | 1.03          | 26.09 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 151     |                      | 0.98         | 24.99 | 3.13    | 79.50 | 1.03          | 26.09 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 21      |                      | 1.11         | 28.24 | 2.13    | 54.10 | 1.06          | 26.90 | 1.55          | 39.40 | 0.50        | 12.70 | 0.70     | 17.78 |
| 16                         | 22      | 19/16                | 1.11         | 28.24 | 3.13    | 79.50 | 1.06          | 26.90 | 1.55          | 39.40 | 0.50        | 12.70 | 0.70     | 17.78 |
|                            | 23*     |                      | 1.11         | 28.24 | 2.88    | 73.15 | 1.16          | 29.36 | 1.77          | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 24*     |                      | 1.11         | 28.24 | 3.88    | 98.55 | 1.16          | 29.36 | 1.77          | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 112     |                      | 1.11         | 28.24 | 2.13    | 54.10 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 113     |                      | 1.11         | 28.24 | 3.13    | 79.50 | 1.03          | 26.09 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 118     |                      | 1.11         | 28.24 | 2.13    | 54.10 | 1.03          | 26.09 | 1.33          | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 119     |                      | 1.11         | 28.24 | 3.13    | 79.50 | 1.03          | 26.09 | 1.33          | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 152     |                      | 1.11         | 28.24 | 2.13    | 54.10 | 1.03          | 26.09 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 153     |                      | 1.11         | 28.24 | 3.13    | 79.50 | 1.03          | 26.09 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |

\* Denotes Style-2 (see page 486)

For more cable entry and length options see page 486 or email: sales@backshellworld.com

All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE



### For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III

| MIL PART NUMBER<br>DESIGNATOR |         | CONNECTOR<br>SHELL SIZE | TABLE-A      |       |         |        |                  |       |                  |       |             |       |             |       |
|-------------------------------|---------|-------------------------|--------------|-------|---------|--------|------------------|-------|------------------|-------|-------------|-------|-------------|-------|
|                               |         |                         | A DIA. (MAX) |       | B (MAX) |        | C (REF)<br>L MAX |       | G (MAX)<br>L MAX |       | CABLE RANGE |       |             |       |
|                               |         |                         | INCH         | MM    | INCH    | MM     | INCH             | MM    | INCH             | MM    | MIN<br>WIRE |       | MAX<br>WIRE |       |
| SHELL SIZE                    | DASH NO |                         |              |       |         |        |                  |       |                  |       | INCH        | MM    | INCH        | MM    |
| 18                            | 25      | 27/18                   | 1.22         | 30.94 | 2.13    | 54.10  | 1.03             | 26.09 | 1.33             | 33.83 | 0.35        | 8.89  | 0.63        | 15.88 |
|                               | 26      |                         | 1.22         | 30.94 | 3.13    | 79.50  | 1.03             | 26.09 | 1.33             | 33.83 | 0.35        | 8.89  | 0.63        | 15.88 |
|                               | 27      |                         | 1.22         | 30.94 | 2.13    | 54.10  | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75        | 19.05 |
|                               | 28      |                         | 1.22         | 30.94 | 3.13    | 79.50  | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75        | 19.05 |
|                               | 29*     |                         | 1.22         | 30.94 | 2.88    | 73.15  | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94        | 23.80 |
|                               | 30*     |                         | 1.22         | 30.94 | 3.88    | 98.55  | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94        | 23.80 |
|                               | 120     |                         | 1.22         | 30.94 | 2.13    | 54.10  | 1.03             | 26.09 | 0.96             | 24.31 | 0.13        | 3.18  | 0.31        | 7.92  |
|                               | 121     |                         | 1.22         | 30.94 | 3.13    | 79.50  | 1.03             | 26.09 | 0.96             | 24.31 | 0.13        | 3.18  | 0.31        | 7.92  |
|                               | 122     |                         | 1.22         | 30.94 | 2.13    | 54.10  | 1.03             | 26.09 | 1.15             | 29.08 | 0.25        | 6.35  | 0.44        | 11.10 |
|                               | 123     |                         | 1.22         | 30.94 | 3.13    | 79.50  | 1.03             | 26.09 | 1.15             | 29.08 | 0.25        | 6.35  | 0.44        | 11.10 |
|                               | 31      | 37/20                   | 1.35         | 34.16 | 3.13    | 79.50  | 1.03             | 26.09 | 1.33             | 33.83 | 0.35        | 8.89  | 0.63        | 15.88 |
| 20                            | 32      |                         | 1.35         | 34.16 | 4.13    | 104.90 | 1.03             | 26.09 | 1.33             | 33.83 | 0.35        | 8.89  | 0.63        | 15.88 |
|                               | 33      |                         | 1.35         | 34.16 | 3.13    | 79.50  | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75        | 19.05 |
|                               | 34      |                         | 1.35         | 34.16 | 4.13    | 104.90 | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75        | 19.05 |
|                               | 35*     |                         | 1.35         | 34.16 | 3.88    | 98.55  | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94        | 23.80 |
|                               | 36*     |                         | 1.35         | 34.16 | 4.88    | 123.95 | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94        | 23.80 |
|                               | 37*     |                         | 1.35         | 34.16 | 3.88    | 98.55  | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.25        | 31.75 |
|                               | 38*     |                         | 1.35         | 34.16 | 4.88    | 123.95 | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.25        | 31.75 |
|                               | 124     |                         | 1.35         | 34.16 | 3.13    | 79.50  | 1.03             | 26.09 | 1.15             | 29.08 | 0.25        | 6.35  | 0.44        | 11.10 |
|                               | 125     |                         | 1.35         | 34.16 | 4.13    | 104.90 | 1.03             | 26.09 | 1.15             | 29.08 | 0.25        | 6.35  | 0.44        | 11.10 |
|                               | 140     |                         | 1.35         | 34.16 | 3.13    | 79.50  | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.90        | 22.96 |
|                               | 141     |                         | 1.35         | 34.16 | 4.13    | 104.90 | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.90        | 22.96 |
| 22                            | 39      | 22                      | 1.47         | 37.29 | 3.13    | 79.50  | 1.03             | 26.09 | 1.33             | 33.83 | 0.35        | 8.89  | 0.63        | 15.88 |
|                               | 40      |                         | 1.47         | 37.29 | 4.13    | 104.90 | 1.03             | 26.09 | 1.33             | 33.83 | 0.35        | 8.89  | 0.63        | 15.88 |
|                               | 41      |                         | 1.47         | 37.29 | 3.13    | 79.50  | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75        | 19.05 |
|                               | 42      |                         | 1.47         | 37.29 | 4.13    | 104.90 | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75        | 19.05 |
|                               | 43      |                         | 1.47         | 37.29 | 3.13    | 79.50  | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94        | 23.80 |
|                               | 44      |                         | 1.47         | 37.29 | 4.13    | 104.90 | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94        | 23.80 |
|                               | 45*     |                         | 1.47         | 37.29 | 3.88    | 98.55  | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.25        | 31.75 |
|                               | 46*     |                         | 1.47         | 37.29 | 4.88    | 123.95 | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.25        | 31.75 |
|                               | 126     |                         | 1.47         | 37.29 | 3.13    | 79.50  | 1.03             | 26.09 | 0.96             | 24.31 | 0.13        | 3.18  | 0.31        | 7.92  |
|                               | 127     |                         | 1.47         | 37.29 | 4.13    | 104.90 | 1.03             | 26.09 | 0.96             | 24.31 | 0.13        | 3.18  | 0.31        | 7.92  |
|                               | 128     |                         | 1.47         | 37.29 | 3.13    | 79.50  | 1.03             | 26.09 | 1.15             | 29.08 | 0.25        | 6.35  | 0.44        | 11.10 |
|                               | 129     |                         | 1.47         | 37.29 | 4.13    | 104.90 | 1.03             | 26.09 | 1.15             | 29.08 | 0.25        | 6.35  | 0.44        | 11.10 |
|                               | 142     |                         | 1.47         | 37.29 | 3.13    | 79.50  | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.03        | 26.14 |
|                               | 143     |                         | 1.47         | 37.29 | 4.13    | 104.90 | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.03        | 26.14 |
|                               | 47      | 24                      | 1.59         | 40.46 | 3.13    | 79.50  | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75        | 19.05 |
| 24                            | 48      |                         | 1.59         | 40.46 | 4.13    | 104.90 | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75        | 19.05 |
|                               | 49      |                         | 1.59         | 40.46 | 3.13    | 79.50  | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.81        | 20.62 |
|                               | 50      |                         | 1.59         | 40.46 | 4.13    | 104.90 | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.81        | 20.62 |
|                               | 51      |                         | 1.59         | 40.46 | 3.13    | 79.50  | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94        | 23.80 |
|                               | 52      |                         | 1.59         | 40.46 | 4.13    | 104.90 | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94        | 23.80 |
|                               | 53*     |                         | 1.59         | 40.46 | 3.88    | 98.55  | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.25        | 31.75 |
|                               | 54*     |                         | 1.59         | 40.46 | 4.88    | 123.95 | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.25        | 31.75 |
|                               | 130     |                         | 1.59         | 40.46 | 3.13    | 79.50  | 1.03             | 26.09 | 1.33             | 33.83 | 0.35        | 8.89  | 0.63        | 15.88 |
|                               | 131     |                         | 1.59         | 40.46 | 4.13    | 104.90 | 1.03             | 26.09 | 1.33             | 33.83 | 0.35        | 8.89  | 0.63        | 15.88 |
|                               | 144     |                         | 1.59         | 40.46 | 3.13    | 79.50  | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.14        | 29.06 |
|                               | 145     |                         | 1.59         | 40.46 | 4.13    | 104.90 | 1.38             | 34.93 | 2.11             | 53.67 | 0.88        | 22.23 | 1.14        | 29.06 |
|                               | 55      | 28                      | 1.97         | 50.01 | 3.13    | 79.50  | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75        | 19.05 |
| 28                            | 56      |                         | 1.97         | 50.01 | 4.13    | 104.90 | 1.06             | 26.90 | 1.55             | 39.40 | 0.50        | 12.70 | 0.75        | 19.05 |
|                               | 57      |                         | 1.97         | 50.01 | 3.13    | 79.50  | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94        | 23.80 |
|                               | 58      |                         | 1.97         | 50.01 | 4.13    | 104.90 | 1.16             | 29.36 | 1.77             | 44.96 | 0.63        | 15.88 | 0.94        | 23.80 |

\* Denotes Style-2 (see page 486)

For more cable entry and length options see page 486 or email: [sales@backshellworld.com](mailto:sales@backshellworld.com)

All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

# Non-Environmental EMI/RFI Backshell

Straight, Spin Coupling, cont.

**Amphenol**

## For Connector Family J

**26482 Matrix Series 2**

**5015 Matrix (MS345X)**

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III

**83723 Matrix & Pyle Series III**

| MIL PART NUMBER<br>DESIGNATOR |         | CONNECTOR<br>SHELL SIZE | TABLE-A      |       |         |        |                  |       |                  |        |             |       |             |       |
|-------------------------------|---------|-------------------------|--------------|-------|---------|--------|------------------|-------|------------------|--------|-------------|-------|-------------|-------|
|                               |         |                         | A DIA. (MAX) |       | B (MAX) |        | C (REF)<br>L MAX |       | G (MAX)<br>L MAX |        | CABLE RANGE |       |             |       |
|                               |         |                         | INCH         | MM    | INCH    | MM     | INCH             | MM    | INCH             | MM     | MIN<br>WIRE |       | MAX<br>WIRE |       |
| SHELL SIZE                    | DASH NO |                         |              |       |         |        |                  |       |                  |        | INCH        | MM    | INCH        | MM    |
| 28, cont.                     | 59      | 28                      | 1.97         | 50.01 | 3.13    | 79.50  | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75 |
|                               | 60      |                         | 1.97         | 50.01 | 4.13    | 104.90 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75 |
|                               | 61      |                         | 1.97         | 50.01 | 3.13    | 79.50  | 1.50             | 38.10 | 23.63            | 600.20 | 1.00        | 25.40 | 1.38        | 34.93 |
|                               | 62      |                         | 1.97         | 50.01 | 4.13    | 104.90 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93 |
| 32                            | 63      | 32                      | 2.22         | 56.36 | 3.13    | 79.50  | 1.16             | 29.36 | 1.77             | 44.96  | 0.63        | 15.88 | 0.94        | 23.80 |
|                               | 64      |                         | 2.22         | 56.36 | 4.13    | 104.90 | 1.16             | 29.36 | 1.77             | 44.96  | 0.63        | 15.88 | 0.94        | 23.80 |
|                               | 65      |                         | 2.22         | 56.36 | 3.13    | 79.50  | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75 |
|                               | 66      |                         | 2.22         | 56.36 | 4.13    | 104.90 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75 |
|                               | 67      |                         | 2.22         | 56.36 | 3.13    | 79.50  | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93 |
|                               | 68      |                         | 2.22         | 56.36 | 4.13    | 104.90 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93 |
|                               | 69      |                         | 2.22         | 56.36 | 3.13    | 79.50  | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28 |
|                               | 70      |                         | 2.22         | 56.36 | 4.13    | 104.90 | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28 |
| 36                            | 71      | 36                      | 2.47         | 62.71 | 4.13    | 104.90 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75 |
|                               | 72      |                         | 2.47         | 62.71 | 5.13    | 130.30 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75 |
|                               | 73      |                         | 2.47         | 62.71 | 4.13    | 104.90 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93 |
|                               | 74      |                         | 2.47         | 62.71 | 5.13    | 130.30 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93 |
|                               | 75      |                         | 2.47         | 62.71 | 4.13    | 104.90 | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28 |
|                               | 76      |                         | 2.47         | 62.71 | 5.13    | 130.30 | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28 |
|                               | 77*     |                         | 2.47         | 62.71 | 5.01    | 127.25 | 1.83             | 46.48 | 3.02             | 76.71  | 1.44        | 36.50 | 1.88        | 47.63 |
|                               | 78*     |                         | 2.47         | 62.71 | 6.01    | 152.65 | 1.83             | 46.48 | 3.02             | 76.71  | 1.44        | 36.50 | 1.88        | 47.63 |
|                               | 132     |                         | 2.47         | 62.71 | 4.13    | 104.90 | 1.06             | 26.90 | 1.55             | 39.40  | 0.50        | 12.70 | 0.75        | 19.05 |
|                               | 133     |                         | 2.47         | 62.71 | 5.13    | 130.30 | 1.06             | 26.90 | 1.55             | 39.40  | 0.50        | 12.70 | 0.75        | 19.05 |
|                               | 146     |                         | 2.47         | 62.71 | 4.13    | 104.90 | 1.83             | 46.48 | 3.02             | 76.71  | 1.44        | 36.50 | 1.88        | 47.63 |
|                               | 147     |                         | 2.47         | 62.71 | 5.13    | 130.30 | 1.83             | 46.48 | 3.02             | 76.71  | 1.44        | 36.50 | 1.88        | 47.63 |
|                               | 148     |                         | 2.47         | 62.71 | 4.13    | 104.90 | 1.16             | 29.36 | 1.77             | 44.96  | 0.63        | 15.88 | 0.94        | 23.80 |
|                               | 149     |                         | 2.47         | 62.71 | 5.13    | 130.30 | 1.16             | 29.36 | 1.77             | 44.96  | 0.63        | 15.88 | 0.94        | 23.80 |
|                               | 79      |                         | 2.72         | 69.06 | 4.13    | 104.90 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75 |
|                               | 80      |                         | 2.72         | 69.06 | 5.13    | 130.30 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75 |
| 40                            | 81      | 40                      | 2.72         | 69.06 | 4.13    | 104.90 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93 |
|                               | 82      |                         | 2.72         | 69.06 | 5.13    | 130.30 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93 |
|                               | 83      |                         | 2.72         | 69.06 | 4.13    | 104.90 | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28 |
|                               | 84      |                         | 2.72         | 69.06 | 5.13    | 130.30 | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28 |
|                               | 85      |                         | 2.72         | 69.06 | 4.13    | 104.90 | 1.83             | 46.48 | 3.02             | 76.71  | 1.44        | 36.50 | 1.88        | 47.63 |
|                               | 86      |                         | 2.72         | 69.06 | 5.13    | 130.30 | 1.83             | 46.48 | 3.02             | 76.71  | 1.44        | 36.50 | 1.88        | 47.63 |
|                               | 134     |                         | 2.72         | 69.06 | 4.13    | 104.90 | 1.06             | 26.90 | 1.55             | 39.40  | 0.50        | 12.70 | 0.75        | 19.05 |
|                               | 135     |                         | 2.72         | 69.06 | 5.13    | 130.30 | 1.06             | 26.90 | 1.55             | 39.40  | 0.50        | 12.70 | 0.75        | 19.05 |
|                               | 156     |                         | 2.72         | 69.06 | 4.13    | 104.90 | 1.16             | 29.36 | 1.77             | 44.96  | 0.63        | 15.88 | 0.94        | 23.80 |
|                               | 157     |                         | 2.72         | 69.06 | 5.13    | 130.30 | 1.16             | 29.36 | 1.77             | 44.96  | 0.63        | 15.88 | 0.94        | 23.80 |
| 44                            | 87      | 44                      | 2.97         | 75.41 | 4.13    | 104.90 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75 |
|                               | 88      |                         | 2.97         | 75.41 | 5.13    | 130.30 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75 |
|                               | 89      |                         | 2.97         | 75.41 | 4.13    | 104.90 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93 |
|                               | 90      |                         | 2.97         | 75.41 | 5.13    | 130.30 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93 |
|                               | 91      |                         | 2.97         | 75.41 | 4.13    | 104.90 | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28 |
|                               | 92      |                         | 2.97         | 75.41 | 5.13    | 130.30 | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28 |
|                               | 93      |                         | 2.97         | 75.41 | 4.13    | 104.90 | 1.83             | 46.48 | 3.02             | 76.71  | 1.44        | 36.50 | 1.88        | 47.63 |
|                               | 94      |                         | 2.97         | 75.41 | 5.13    | 130.30 | 1.83             | 46.48 | 3.02             | 76.71  | 1.44        | 36.50 | 1.88        | 47.63 |
|                               | 154     |                         | 2.97         | 75.41 | 4.13    | 104.90 | 1.16             | 29.36 | 1.77             | 44.96  | 0.63        | 15.88 | 0.94        | 23.80 |
|                               | 155     |                         | 2.97         | 75.41 | 5.13    | 130.30 | 1.16             | 29.36 | 1.77             | 44.96  | 0.63        | 15.88 | 0.94        | 23.80 |
| 48                            | 95      | 48                      | 3.22         | 81.76 | 4.13    | 104.90 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75 |
|                               | 96      |                         | 3.22         | 81.76 | 5.13    | 130.30 | 1.38             | 34.93 | 2.11             | 53.67  | 0.88        | 22.23 | 1.25        | 31.75 |
|                               | 97      |                         | 3.22         | 81.76 | 4.13    | 104.90 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93 |
|                               | 98      |                         | 3.22         | 81.76 | 5.13    | 130.30 | 1.50             | 38.10 | 2.36             | 60.02  | 1.00        | 25.40 | 1.38        | 34.93 |
|                               | 99      |                         | 3.22         | 81.76 | 4.13    | 104.90 | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28 |
|                               | 100     |                         | 3.22         | 81.76 | 5.13    | 130.30 | 1.78             | 45.24 | 2.77             | 70.36  | 1.25        | 31.75 | 1.63        | 41.28 |
|                               | 101     |                         | 3.22         | 81.76 | 4.13    | 104.90 | 1.83             | 46.48 | 3.02             | 76.71  | 1.44        | 36.50 | 1.88        | 47.63 |
|                               | 102     |                         | 3.22         | 81.76 | 5.13    | 130.30 | 1.83             | 46.48 | 3.02             | 76.71  | 1.44        | 36.50 | 1.88        | 47.63 |

\* Denotes Style-2 (see page 486). For more cable entry and length options see page 486 or email: sales@backshellworld.com.

All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

26482

Matrix 2

83723

Matrix | Pyle

III

26500

Pyle

5015

Crimp Rear Release Matrix

22992

Class I

Back-

Shells

Options

Others

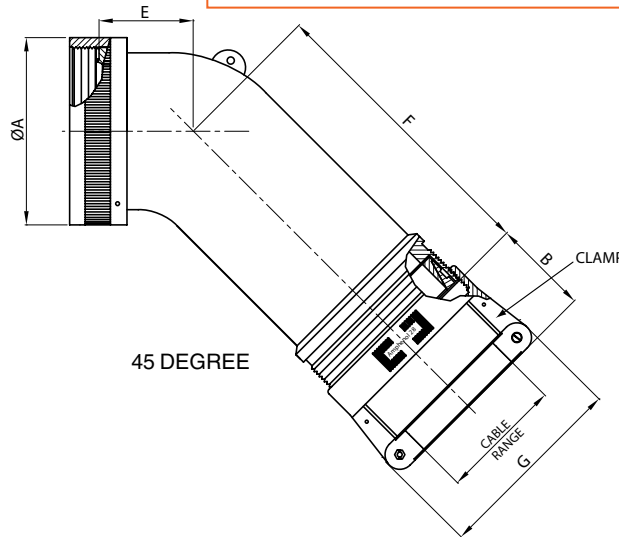
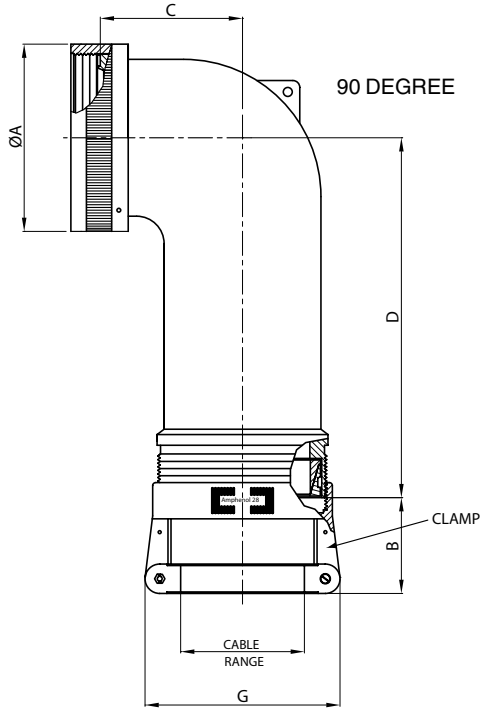


26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III



#### MIL Part Number

M85049 / 23 -10 W

MIL Series

Slash Sheet:

24: 90°, Spin Coupling

23: 45°, Spin Coupling

Finish:  
See Table-2  
(pg. 486)

Dash Number:  
See Table-B

TABLE-B

| TABLE-B                          |            |                         |                 |       |                  |       |         |       |         |       |         |       |         |       |         |       |             |       |             |       |
|----------------------------------|------------|-------------------------|-----------------|-------|------------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|-------------|-------|-------------|-------|
| MIL PART<br>NUMBER<br>DESIGNATOR |            | CONNECTOR<br>SHELL SIZE | A DIA.<br>(MAX) |       | B (REF)<br>L MAX |       | C (MAX) |       | D (MAX) |       | E (MAX) |       | F (MAX) |       | G (MAX) |       | CABLE RANGE |       |             |       |
|                                  |            |                         |                 |       |                  |       |         |       |         |       |         |       |         |       |         |       | MIN<br>WIRE |       | MAX<br>WIRE |       |
| SHELL<br>SIZE                    | DASH<br>NO |                         | INCH            | MM    | INCH             | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH        | MM    | INCH        | MM    |
| 8                                | 3          | 8                       | 0.62            | 15.67 | 1.03             | 26.09 | 0.67    | 17.02 | 1.26    | 32.00 | 0.63    | 16.00 | 1.25    | 31.75 | 0.96    | 24.31 | 0.13        | 3.18  | 0.25        | 6.35  |
| 10                               | 4          | 10                      | 0.73            | 18.64 | 1.03             | 26.09 | 0.76    | 19.30 | 1.98    | 50.29 | 0.69    | 17.53 | 1.92    | 48.77 | 0.96    | 24.31 | 0.13        | 3.18  | 0.31        | 7.92  |
|                                  | 49*        |                         | 0.73            | 18.64 | 1.03             | 26.09 | 1.52    | 38.61 | 2.00    | 50.80 | 1.50    | 38.10 | 1.98    | 50.29 | 1.15    | 29.08 | 0.25        | 6.35  | 0.44        | 11.10 |
|                                  | 5          |                         | 0.73            | 18.64 | 1.03             | 26.09 | 0.76    | 19.30 | 1.38    | 35.05 | 0.69    | 17.53 | 1.31    | 33.27 | 1.15    | 29.08 | 0.25        | 6.35  | 0.38        | 9.53  |
| 12                               | 6          | 7/12                    | 0.86            | 21.79 | 1.03             | 26.09 | 0.77    | 19.56 | 2.00    | 50.80 | 0.75    | 19.05 | 1.98    | 50.29 | 0.96    | 24.31 | 0.13        | 3.18  | 0.31        | 7.92  |
|                                  | 71*        |                         | 0.86            | 21.79 | 1.03             | 26.09 | 1.81    | 45.97 | 2.16    | 54.86 | 1.65    | 41.91 | 2.18    | 55.37 | 1.33    | 33.83 | 0.35        | 8.89  | 0.63        | 15.88 |
|                                  | 7          |                         | 0.86            | 21.79 | 1.03             | 26.09 | 0.77    | 19.56 | 2.00    | 50.80 | 0.75    | 19.05 | 1.98    | 50.29 | 1.15    | 29.08 | 0.25        | 6.35  | 0.44        | 11.10 |
|                                  | 8          |                         | 0.86            | 21.79 | 1.03             | 26.09 | 0.77    | 19.56 | 1.40    | 35.56 | 0.75    | 19.05 | 1.98    | 50.29 | 1.33    | 33.83 | 0.35        | 8.89  | 0.50        | 12.70 |
| 14                               | 9          | 12/14                   | 0.98            | 24.99 | 1.03             | 26.09 | 0.87    | 22.10 | 2.07    | 52.58 | 0.81    | 20.57 | 2.07    | 52.58 | 1.15    | 29.08 | 0.25        | 6.35  | 0.44        | 11.10 |
|                                  | 10         |                         | 0.98            | 24.99 | 1.03             | 26.09 | 0.87    | 22.10 | 1.72    | 43.69 | 0.81    | 20.57 | 1.72    | 43.69 | 1.33    | 33.83 | 0.35        | 8.89  | 0.58        | 14.61 |
|                                  | 50*        |                         | 0.98            | 24.99 | 1.06             | 26.90 | 1.89    | 48.01 | 2.33    | 59.18 | 1.84    | 46.74 | 2.37    | 60.20 | 1.55    | 39.40 | 0.50        | 12.70 | 0.75        | 19.05 |
|                                  | 74         |                         | 0.98            | 24.99 | 1.03             | 26.09 | 0.87    | 22.10 | 2.07    | 52.58 | 0.81    | 20.57 | 2.07    | 52.58 | 0.96    | 24.31 | 0.13        | 3.18  | 0.31        | 7.92  |
| 16                               | 11         | 19/16                   | 1.11            | 28.24 | 1.03             | 26.09 | 1.05    | 26.67 | 2.16    | 54.86 | 0.91    | 23.11 | 2.18    | 55.37 | 1.15    | 29.08 | 0.25        | 6.35  | 0.44        | 11.10 |
|                                  | 12         |                         | 1.11            | 28.24 | 1.06             | 26.90 | 1.05    | 26.67 | 1.81    | 45.97 | 0.91    | 23.11 | 1.82    | 46.23 | 1.55    | 39.40 | 0.50        | 12.70 | 0.70        | 17.78 |
|                                  | 40         |                         | 1.11            | 28.24 | 1.03             | 26.09 | 1.05    | 26.67 | 2.16    | 54.86 | 0.91    | 23.11 | 2.18    | 55.37 | 1.33    | 33.83 | 0.35        | 8.89  | 0.63        | 15.88 |
|                                  | 51*        |                         | 1.11            | 28.24 | 1.16             | 29.36 | 2.04    | 51.82 | 2.44    | 61.98 | 1.94    | 49.28 | 2.52    | 64.01 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94        | 23.80 |
|                                  | 75         |                         | 1.11            | 28.24 | 1.03             | 26.09 | 1.05    | 26.67 | 2.16    | 54.86 | 0.91    | 23.11 | 2.18    | 55.37 | 0.96    | 24.31 | 0.13        | 3.18  | 0.31        | 7.92  |

\* Denotes Style-2 (see page 486)

For more cable entry and length options see page 486 or email: [sales@backshellworld.com](mailto:sales@backshellworld.com)

All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

# Non-Environmental EMI/RFI Backshell

90° and 45°, Spin Coupling, cont.

**Amphenol**

## For Connector Family J

**26482 Matrix Series 2**

**5015 Matrix (MS345X)**

**83723 Matrix & Pyle Series III**

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III

| TABLE-B                    |         |                      |              |       |               |       |         |       |         |       |         |       |         |       |         |       |             |       |          |       |
|----------------------------|---------|----------------------|--------------|-------|---------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|-------------|-------|----------|-------|
| MIL PART NUMBER DESIGNATOR |         | CONNECTOR SHELL SIZE | A DIA. (MAX) |       | B (REF) L MAX |       | C (MAX) |       | D (MAX) |       | E (MAX) |       | F (MAX) |       | G (MAX) |       | CABLE RANGE |       |          |       |
| SHELL SIZE                 | DASH NO |                      |              |       |               |       |         |       |         |       |         |       |         |       |         |       | MIN WIRE    |       | MAX WIRE |       |
|                            |         |                      | INCH         | MM    | INCH          | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH        | MM    | INCH     | MM    |
| 18                         | 13      | 27/18                | 1.22         | 30.94 | 1.03          | 26.09 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 1.33    | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 14      |                      | 1.22         | 30.94 | 1.16          | 29.36 | 1.14    | 28.96 | 1.98    | 50.29 | 1.09    | 27.69 | 2.00    | 50.80 | 1.77    | 44.96 | 0.63        | 15.88 | 0.78     | 19.79 |
|                            | 41      |                      | 1.22         | 30.94 | 1.03          | 26.09 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 0.96    | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 42      |                      | 1.22         | 30.94 | 1.03          | 26.09 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 1.15    | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 52      |                      | 1.22         | 30.94 | 1.06          | 26.90 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 1.55    | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 72*     |                      | 1.22         | 30.94 | 1.16          | 29.36 | 2.05    | 52.07 | 2.44    | 61.98 | 1.94    | 49.28 | 2.52    | 64.01 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
| 20                         | 15      | 37/20                | 1.35         | 34.16 | 1.03          | 26.09 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 1.33    | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 16      |                      | 1.35         | 34.16 | 1.16          | 29.36 | 1.14    | 28.96 | 1.98    | 50.29 | 1.09    | 27.69 | 2.00    | 50.80 | 1.77    | 44.96 | 0.63        | 15.88 | 0.90     | 22.96 |
|                            | 43      |                      | 1.35         | 34.16 | 1.03          | 26.09 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 1.15    | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 54      |                      | 1.35         | 34.16 | 1.06          | 26.90 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 1.55    | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 55      |                      | 1.35         | 34.16 | 1.38          | 34.93 | 2.14    | 54.36 | 2.61    | 66.29 | 2.06    | 52.32 | 2.57    | 65.28 | 2.11    | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
| 22                         | 17      | 22                   | 1.47         | 37.29 | 1.06          | 26.90 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.55    | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 18      |                      | 1.47         | 37.29 | 1.38          | 34.93 | 1.29    | 32.77 | 2.09    | 53.09 | 1.19    | 30.23 | 2.16    | 54.86 | 2.11    | 53.67 | 0.88        | 22.23 | 1.03     | 26.14 |
|                            | 44      |                      | 1.47         | 37.29 | 1.03          | 26.09 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 0.96    | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 45      |                      | 1.47         | 37.29 | 1.03          | 26.09 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.15    | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 56      |                      | 1.47         | 37.29 | 1.03          | 26.09 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.33    | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 57      |                      | 1.47         | 37.29 | 1.16          | 29.36 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 58*     |                      | 1.47         | 37.29 | 1.38          | 34.93 | 2.14    | 54.36 | 2.61    | 66.29 | 2.06    | 52.32 | 2.57    | 65.28 | 2.11    | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
| 24                         | 19      | 24                   | 1.59         | 40.46 | 1.06          | 26.90 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.55    | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 20      |                      | 1.59         | 40.46 | 1.38          | 34.93 | 1.29    | 32.77 | 2.09    | 53.09 | 1.19    | 30.23 | 2.16    | 54.86 | 2.11    | 53.67 | 0.88        | 22.23 | 1.14     | 29.06 |
|                            | 46      |                      | 1.59         | 40.46 | 1.03          | 26.09 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.33    | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 59      |                      | 1.59         | 40.46 | 1.16          | 29.36 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 73*     |                      | 1.59         | 40.46 | 1.38          | 34.93 | 2.15    | 54.61 | 2.61    | 66.29 | 2.06    | 52.32 | 2.57    | 65.28 | 2.12    | 53.75 | 0.88        | 22.23 | 1.25     | 31.75 |
| 28                         | 21      | 28                   | 1.97         | 50.01 | 1.16          | 29.36 | 1.39    | 35.31 | 2.61    | 66.29 | 1.31    | 33.27 | 2.57    | 65.28 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 22      |                      | 1.97         | 50.01 | 1.50          | 38.10 | 1.39    | 35.31 | 2.26    | 57.40 | 1.31    | 33.27 | 2.22    | 56.39 | 2.36    | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
|                            | 60      |                      | 1.97         | 50.01 | 1.06          | 26.90 | 1.39    | 35.31 | 2.61    | 66.29 | 1.31    | 33.27 | 2.57    | 65.28 | 1.55    | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 61      |                      | 1.97         | 50.01 | 1.38          | 34.93 | 1.39    | 35.31 | 2.61    | 66.29 | 1.31    | 33.27 | 2.57    | 65.28 | 2.11    | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
| 32                         | 23      | 32                   | 2.22         | 56.36 | 1.16          | 29.36 | 1.74    | 44.20 | 2.86    | 72.64 | 1.38    | 35.05 | 2.67    | 67.82 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 24      |                      | 2.22         | 56.36 | 1.38          | 34.93 | 1.74    | 44.20 | 2.86    | 72.64 | 1.38    | 35.05 | 2.67    | 67.82 | 2.11    | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 25      |                      | 2.22         | 56.36 | 1.78          | 45.24 | 1.74    | 44.20 | 2.51    | 63.75 | 1.38    | 35.05 | 2.32    | 58.93 | 2.77    | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |
|                            | 62      |                      | 2.22         | 56.36 | 1.50          | 38.10 | 1.74    | 44.20 | 2.86    | 72.64 | 1.38    | 35.05 | 2.67    | 67.82 | 2.36    | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
| 36                         | 26      | 36                   | 2.47         | 62.71 | 1.16          | 29.36 | 1.94    | 49.28 | 2.83    | 71.88 | 1.41    | 35.81 | 2.76    | 70.10 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 27      |                      | 2.47         | 62.71 | 1.50          | 38.10 | 1.94    | 49.28 | 2.83    | 71.88 | 1.41    | 35.81 | 2.76    | 70.10 | 2.36    | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
|                            | 28      |                      | 2.47         | 62.71 | 1.83          | 46.48 | 1.94    | 49.28 | 2.48    | 62.99 | 1.41    | 35.81 | 2.41    | 61.21 | 3.02    | 76.71 | 1.44        | 36.50 | 1.84     | 46.74 |
|                            | 47      |                      | 2.47         | 62.71 | 1.06          | 26.90 | 1.94    | 49.28 | 2.83    | 71.88 | 1.41    | 35.81 | 2.76    | 70.10 | 1.55    | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 63      |                      | 2.47         | 62.71 | 1.38          | 34.93 | 1.94    | 49.28 | 2.83    | 71.88 | 1.41    | 35.81 | 2.76    | 70.10 | 2.11    | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 64      |                      | 2.47         | 62.71 | 1.78          | 45.24 | 1.94    | 49.28 | 2.83    | 71.88 | 1.41    | 35.81 | 2.76    | 70.10 | 2.77    | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |
| 40                         | 29      | 40                   | 2.72         | 69.06 | 1.16          | 29.36 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 30      |                      | 2.72         | 69.06 | 1.50          | 38.10 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.36    | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
|                            | 31      |                      | 2.72         | 69.06 | 1.83          | 46.48 | 2.69    | 68.33 | 2.48    | 62.99 | 2.16    | 54.86 | 2.41    | 61.21 | 3.02    | 76.71 | 1.44        | 36.50 | 1.88     | 47.63 |
|                            | 48      |                      | 2.72         | 69.06 | 1.06          | 26.90 | 1.94    | 49.28 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 1.55    | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 65      |                      | 2.72         | 69.06 | 1.38          | 34.93 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.11    | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 66      |                      | 2.72         | 69.06 | 1.78          | 45.24 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.77    | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |
| 44                         | 32      | 44                   | 2.97         | 75.41 | 1.16          | 29.36 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 33      |                      | 2.97         | 75.41 | 1.50          | 38.10 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.36    | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
|                            | 34      |                      | 2.97         | 75.41 | 1.83          | 46.48 | 2.69    | 68.33 | 2.48    | 62.99 | 2.16    | 54.86 | 2.41    | 61.21 | 3.02    | 76.71 | 1.44        | 36.50 | 1.88     | 47.63 |
|                            | 67      |                      | 2.97         | 75.41 | 1.38          | 34.93 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.11    | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 68      |                      | 2.97         | 75.41 | 1.78          | 45.24 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.77    | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |
| 48                         | 35      | 48                   | 3.22         | 81.76 | 1.16          | 29.36 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 36      |                      | 3.22         | 81.76 | 1.50          | 38.10 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.36    | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
|                            | 37      |                      | 3.22         | 81.76 | 1.83          | 46.48 | 2.69    | 68.33 | 2.48    | 62.99 | 2.16    | 54.86 | 2.41    | 61.21 | 3.02    | 76.71 | 1.44        | 36.50 | 1.88     | 47.63 |
|                            | 69      |                      | 3.22         | 81.76 | 1.38          | 34.93 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.11    | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 70      |                      | 3.22         | 81.76 | 1.78          | 45.24 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.77    | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |

\* Denotes Style-2 (see page 486)

For more cable entry and length options see page 486 or email: [sales@backshellworld.com](mailto:sales@backshellworld.com)

All dimensions for reference only.

38999

III

HD

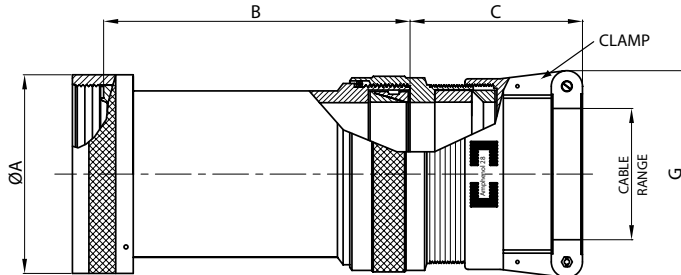
### For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III



**MIL Part Number**  
**M85049 / 10 -10 W**

MIL Series: \_\_\_\_\_  
Slash Sheet: \_\_\_\_\_  
10: Straight, Spin Coupling

Finish:  
See Table-2  
(pg. 486)

Dash Number:  
See Table-A

| TABLE – A                  |         |                      |              |       |         |       |               |       |               |       |             |       |          |       |
|----------------------------|---------|----------------------|--------------|-------|---------|-------|---------------|-------|---------------|-------|-------------|-------|----------|-------|
| MIL PART NUMBER DESIGNATOR |         | CONNECTOR SHELL SIZE | A DIA. (MAX) |       | B (MAX) |       | C (REF) L MAX |       | G (MAX) L MAX |       | CABLE RANGE |       |          |       |
| SHELL SIZE                 | DASH NO |                      | INCH         | MM    | INCH    | MM    | INCH          | MM    | INCH          | MM    | MIN WIRE    |       | MAX WIRE |       |
|                            |         |                      |              |       |         |       |               |       |               |       | INCH        | MM    | INCH     | MM    |
| 08                         | 05      | 8                    | 0.62         | 15.67 | 2.13    | 54.10 | 1.54          | 39.22 | 0.96          | 24.31 | 0.13        | 3.18  | 0.25     | 6.35  |
|                            | 06      |                      | 0.62         | 15.67 | 3.13    | 79.50 | 1.54          | 39.22 | 0.96          | 24.31 | 0.13        | 3.18  | 0.25     | 6.35  |
|                            | 07*     |                      | 0.62         | 15.67 | 2.88    | 73.15 | 1.54          | 39.22 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 08*     |                      | 0.62         | 15.67 | 3.88    | 98.55 | 1.54          | 39.22 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
| 10                         | 09      | 10                   | 0.73         | 18.64 | 2.13    | 54.10 | 1.54          | 39.22 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 10      |                      | 0.73         | 18.64 | 3.13    | 79.50 | 1.54          | 39.22 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 11*     |                      | 0.73         | 18.64 | 2.88    | 73.15 | 1.54          | 39.22 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 12*     |                      | 0.73         | 18.64 | 3.88    | 98.55 | 1.54          | 39.22 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 136     |                      | 0.73         | 18.64 | 2.13    | 54.10 | 1.54          | 39.22 | 1.15          | 29.08 | 0.25        | 6.35  | 0.38     | 9.53  |
|                            | 137     |                      | 0.73         | 18.64 | 3.13    | 79.50 | 1.54          | 39.22 | 1.15          | 29.08 | 0.25        | 6.35  | 0.38     | 9.53  |
| 12                         | 13      | 7/12                 | 0.86         | 21.79 | 2.13    | 54.10 | 1.54          | 39.22 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 14      |                      | 0.86         | 21.79 | 3.13    | 79.50 | 1.54          | 39.22 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 15*     |                      | 0.86         | 21.79 | 2.88    | 73.15 | 1.84          | 46.84 | 1.33          | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 16*     |                      | 0.86         | 21.79 | 3.88    | 98.55 | 1.84          | 46.84 | 1.33          | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 111     |                      | 0.86         | 21.79 | 2.13    | 54.10 | 1.84          | 46.84 | 1.33          | 33.83 | 0.35        | 8.89  | 0.50     | 12.70 |
|                            | 114     |                      | 0.86         | 21.79 | 2.13    | 54.10 | 1.54          | 39.22 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 115     |                      | 0.86         | 21.79 | 3.13    | 79.50 | 1.54          | 39.22 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 138     |                      | 0.86         | 21.79 | 2.13    | 54.10 | 1.84          | 46.84 | 1.33          | 33.83 | 0.35        | 8.89  | 0.50     | 12.70 |
| 14                         | 139     | 7/12                 | 0.86         | 21.79 | 3.13    | 79.50 | 1.84          | 46.84 | 1.33          | 33.83 | 0.35        | 8.89  | 0.50     | 12.70 |
|                            | 17      | 12/14                | 0.98         | 24.99 | 2.13    | 54.10 | 1.84          | 46.84 | 1.33          | 33.83 | 0.35        | 8.89  | 0.58     | 14.61 |
|                            | 18      |                      | 0.98         | 24.99 | 3.13    | 79.50 | 1.84          | 46.84 | 1.33          | 33.83 | 0.35        | 8.89  | 0.58     | 14.61 |
|                            | 19*     |                      | 0.98         | 24.99 | 2.88    | 73.15 | 1.92          | 48.67 | 1.55          | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 20*     |                      | 0.98         | 24.99 | 3.88    | 98.55 | 1.92          | 48.67 | 1.55          | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 116     |                      | 0.98         | 24.99 | 2.13    | 54.10 | 1.54          | 39.22 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 117     |                      | 0.98         | 24.99 | 3.13    | 79.50 | 1.54          | 39.22 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 150     |                      | 0.98         | 24.99 | 2.13    | 54.10 | 1.54          | 39.22 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
| 151                        | 0.98    |                      | 24.99        | 3.13  | 79.50   | 1.54  | 39.22         | 0.96  | 24.31         | 0.13  | 3.18        | 0.31  | 7.92     |       |
| 16                         | 21      | 19/16                | 1.11         | 28.24 | 2.13    | 54.10 | 1.92          | 48.67 | 1.55          | 39.40 | 0.50        | 12.70 | 0.70     | 17.78 |
|                            | 22      |                      | 1.11         | 28.24 | 3.13    | 79.50 | 1.92          | 48.67 | 1.55          | 39.40 | 0.50        | 12.70 | 0.70     | 17.78 |
|                            | 23*     |                      | 1.11         | 28.24 | 2.88    | 73.15 | 2.00          | 50.80 | 1.77          | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 24*     |                      | 1.11         | 28.24 | 3.88    | 98.55 | 2.00          | 50.80 | 1.77          | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 112     |                      | 1.11         | 28.24 | 2.13    | 54.10 | 1.54          | 39.22 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 113     |                      | 1.11         | 28.24 | 3.13    | 79.50 | 1.54          | 39.22 | 1.15          | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 118     |                      | 1.11         | 28.24 | 2.13    | 54.10 | 1.84          | 46.84 | 1.33          | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 119     |                      | 1.11         | 28.24 | 3.13    | 79.50 | 1.84          | 46.84 | 1.33          | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 152     |                      | 1.11         | 28.24 | 2.13    | 54.10 | 1.54          | 39.22 | 0.96          | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
| 153                        | 1.11    | 28.24                | 3.13         | 79.50 | 1.54    | 39.22 | 0.96          | 24.31 | 0.13          | 3.18  | 0.31        | 7.92  |          |       |

\* Denotes Style-2 (see page 486)

For more cable entry and length options see page 486 or email: [sales@backshellworld.com](mailto:sales@backshellworld.com)

All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

### For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III

38999

III  
HD  
Dualok  
II  
I  
SJT  
Accessories  
Aquacon  
Herm/Seal  
PCB

Fiber  
Optics  
Contacts  
High Speed

EMI Filter  
Transient

Matrix 2  
26482

Matrix I Pyle  
83723  
III

Pyle  
26500

Matrix  
5015  
Crimp Rear Release

Class I  
22992

Back-  
Shells

Options  
Others

| MIL PART NUMBER DESIGNATOR |         | CONNECTOR SHELL SIZE | TABLE - A    |       |         |        |               |       |               |        |             |       |          |       |
|----------------------------|---------|----------------------|--------------|-------|---------|--------|---------------|-------|---------------|--------|-------------|-------|----------|-------|
|                            |         |                      | A DIA. (MAX) |       | B (MAX) |        | C (REF) L MAX |       | G (MAX) L MAX |        | CABLE RANGE |       |          |       |
|                            |         |                      | INCH         | MM    | INCH    | MM     | INCH          | MM    | INCH          | MM     | MIN WIRE    |       | MAX WIRE |       |
| SHELL SIZE                 | DASH NO |                      |              |       |         |        |               |       |               |        | INCH        | MM    | INCH     | MM    |
| 18                         | 25      | 27/18                | 1.22         | 30.94 | 2.13    | 54.10  | 1.84          | 46.84 | 1.33          | 33.83  | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 26      |                      | 1.22         | 30.94 | 3.13    | 79.50  | 1.84          | 46.84 | 1.33          | 33.83  | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 27      |                      | 1.22         | 30.94 | 2.13    | 54.10  | 1.92          | 48.67 | 1.55          | 39.40  | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 28      |                      | 1.22         | 30.94 | 3.13    | 79.50  | 1.92          | 48.67 | 1.55          | 39.40  | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 29*     |                      | 1.22         | 30.94 | 2.88    | 73.15  | 2.00          | 50.80 | 1.77          | 44.96  | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 30*     |                      | 1.22         | 30.94 | 3.88    | 98.55  | 2.00          | 50.80 | 1.77          | 44.96  | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 120     |                      | 1.22         | 30.94 | 2.13    | 54.10  | 1.54          | 39.22 | 0.96          | 24.31  | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 121     |                      | 1.22         | 30.94 | 3.13    | 79.50  | 1.54          | 39.22 | 0.96          | 24.31  | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 122     |                      | 1.22         | 30.94 | 2.13    | 54.10  | 1.54          | 39.22 | 1.15          | 29.08  | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 123     |                      | 1.22         | 30.94 | 3.13    | 79.50  | 1.54          | 39.22 | 1.15          | 29.08  | 0.25        | 6.35  | 0.44     | 11.10 |
| 20                         | 31      | 37/20                | 1.35         | 34.16 | 3.13    | 79.50  | 1.84          | 46.84 | 1.33          | 33.83  | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 32      |                      | 1.35         | 34.16 | 4.13    | 104.90 | 1.84          | 46.84 | 1.33          | 33.83  | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 33      |                      | 1.35         | 34.16 | 3.13    | 79.50  | 1.92          | 48.67 | 1.55          | 39.40  | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 34      |                      | 1.35         | 34.16 | 4.13    | 104.90 | 1.92          | 48.67 | 1.55          | 39.40  | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 35*     |                      | 1.35         | 34.16 | 3.88    | 98.55  | 2.00          | 50.80 | 1.77          | 44.96  | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 36*     |                      | 1.35         | 34.16 | 4.88    | 123.95 | 2.00          | 50.80 | 1.77          | 44.96  | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 37*     |                      | 1.35         | 34.16 | 3.88    | 98.55  | 2.23          | 56.64 | 2.11          | 53.67  | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 38*     |                      | 1.35         | 34.16 | 4.88    | 123.95 | 2.23          | 56.64 | 2.11          | 53.67  | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 124     |                      | 1.35         | 34.16 | 3.13    | 79.50  | 1.54          | 39.22 | 1.15          | 29.08  | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 125     |                      | 1.35         | 34.16 | 4.13    | 104.90 | 1.54          | 39.22 | 1.15          | 29.08  | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 140     |                      | 1.35         | 34.16 | 3.13    | 79.50  | 2.00          | 50.80 | 1.77          | 44.96  | 0.63        | 15.88 | 0.90     | 22.96 |
|                            | 141     |                      | 1.35         | 34.16 | 4.13    | 104.90 | 2.00          | 50.80 | 1.77          | 44.96  | 0.63        | 15.88 | 0.90     | 22.96 |
|                            | 142     |                      | 1.35         | 34.16 | 3.13    | 79.50  | 2.00          | 50.80 | 1.77          | 44.96  | 0.63        | 15.88 | 0.90     | 22.96 |
| 22                         | 39      | 22                   | 1.47         | 37.29 | 3.13    | 79.50  | 1.84          | 46.84 | 1.33          | 33.83  | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 40      |                      | 1.47         | 37.29 | 4.13    | 104.90 | 1.84          | 46.84 | 1.33          | 33.83  | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 41      |                      | 1.47         | 37.29 | 3.13    | 79.50  | 1.92          | 48.67 | 1.55          | 39.40  | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 42      |                      | 1.47         | 37.29 | 4.13    | 104.90 | 1.92          | 48.67 | 1.55          | 39.40  | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 43      |                      | 1.47         | 37.29 | 3.13    | 79.50  | 2.00          | 50.80 | 1.77          | 44.96  | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 44      |                      | 1.47         | 37.29 | 4.13    | 104.90 | 2.00          | 50.80 | 1.77          | 44.96  | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 45*     |                      | 1.47         | 37.29 | 3.88    | 98.55  | 2.23          | 56.64 | 2.11          | 53.67  | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 46*     |                      | 1.47         | 37.29 | 4.88    | 123.95 | 2.23          | 56.64 | 2.11          | 53.67  | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 126     |                      | 1.47         | 37.29 | 3.13    | 79.50  | 1.54          | 39.22 | 0.96          | 24.31  | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 127     |                      | 1.47         | 37.29 | 4.13    | 104.90 | 1.54          | 39.22 | 0.96          | 24.31  | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 128     |                      | 1.47         | 37.29 | 3.13    | 79.50  | 1.54          | 39.22 | 1.15          | 29.08  | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 129     |                      | 1.47         | 37.29 | 4.13    | 104.90 | 1.54          | 39.22 | 1.15          | 29.08  | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 142     |                      | 1.47         | 37.29 | 3.13    | 79.50  | 2.23          | 56.64 | 2.11          | 53.67  | 0.88        | 22.23 | 1.03     | 26.14 |
|                            | 143     |                      | 1.47         | 37.29 | 4.13    | 104.90 | 2.23          | 56.64 | 2.11          | 53.67  | 0.88        | 22.23 | 1.03     | 26.14 |
|                            | 144     |                      | 1.47         | 37.29 | 3.13    | 79.50  | 2.23          | 56.64 | 2.11          | 53.67  | 0.88        | 22.23 | 1.03     | 26.14 |
| 24                         | 47      | 24                   | 1.59         | 40.46 | 3.13    | 79.50  | 1.92          | 48.67 | 1.55          | 39.40  | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 48      |                      | 1.59         | 40.46 | 4.13    | 104.90 | 1.92          | 48.67 | 1.55          | 39.40  | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 49      |                      | 1.59         | 40.46 | 3.13    | 79.50  | 2.00          | 50.80 | 1.77          | 44.96  | 0.63        | 15.88 | 0.81     | 20.62 |
|                            | 50      |                      | 1.59         | 40.46 | 4.13    | 104.90 | 2.00          | 50.80 | 1.77          | 44.96  | 0.63        | 15.88 | 0.81     | 20.62 |
|                            | 51      |                      | 1.59         | 40.46 | 3.13    | 79.50  | 2.00          | 50.80 | 1.77          | 44.96  | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 52      |                      | 1.59         | 40.46 | 4.13    | 104.90 | 2.00          | 50.80 | 1.77          | 44.96  | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 53*     |                      | 1.59         | 40.46 | 3.88    | 98.55  | 2.23          | 56.64 | 2.11          | 53.67  | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 54*     |                      | 1.59         | 40.46 | 4.88    | 123.95 | 2.23          | 56.64 | 2.11          | 53.67  | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 130     |                      | 1.59         | 40.46 | 3.13    | 79.50  | 1.84          | 46.84 | 1.33          | 33.83  | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 131     |                      | 1.59         | 40.46 | 4.13    | 104.90 | 1.84          | 46.84 | 1.33          | 33.83  | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 144     |                      | 1.59         | 40.46 | 3.13    | 79.50  | 2.23          | 56.64 | 2.11          | 53.67  | 0.88        | 22.23 | 1.14     | 29.06 |
|                            | 145     |                      | 1.59         | 40.46 | 4.13    | 104.90 | 2.23          | 56.64 | 2.11          | 53.67  | 0.88        | 22.23 | 1.14     | 29.06 |
|                            | 146     |                      | 1.59         | 40.46 | 3.13    | 79.50  | 2.23          | 56.64 | 2.11          | 53.67  | 0.88        | 22.23 | 1.14     | 29.06 |
| 28                         | 55      | 28                   | 1.97         | 50.01 | 3.13    | 79.50  | 1.92          | 48.67 | 1.55          | 39.40  | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 56      |                      | 1.97         | 50.01 | 4.13    | 104.90 | 1.92          | 48.67 | 1.55          | 39.40  | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 57      |                      | 1.97         | 50.01 | 3.13    | 79.50  | 2.00          | 50.80 | 1.77          | 44.96  | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 58      |                      | 1.97         | 50.01 | 4.13    | 104.90 | 2.00          | 50.80 | 1.77          | 44.96  | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 59      |                      | 1.97         | 50.01 | 3.13    | 79.50  | 2.23          | 56.64 | 2.11          | 53.67  | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 60      |                      | 1.97         | 50.01 | 4.13    | 104.90 | 2.23          | 56.64 | 2.11          | 53.67  | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 61      |                      | 1.97         | 50.01 | 3.13    | 79.50  | 2.02          | 51.41 | 23.63         | 600.20 | 1.00        | 25.40 | 1.38     | 34.93 |
|                            | 62      |                      | 1.97         | 50.01 | 4.13    | 104.90 | 2.02          | 51.41 | 2.36          | 60.02  | 1.00        | 25.40 | 1.38     | 34.93 |

\* Denotes Style-2 (see page 486). For more cable entry and length options see page 486 or email: sales@backshellworld.com. All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

#### For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III

| TABLE – A                  |         |                      |              |       |         |        |               |        |               |       |             |       |          |       |
|----------------------------|---------|----------------------|--------------|-------|---------|--------|---------------|--------|---------------|-------|-------------|-------|----------|-------|
| MIL PART NUMBER DESIGNATOR |         | CONNECTOR SHELL SIZE | A DIA. (MAX) |       | B (MAX) |        | C (REF) L MAX |        | G (MAX) L MAX |       | CABLE RANGE |       |          |       |
| SHELL SIZE                 | DASH NO |                      | INCH         | MM    | INCH    | MM     | INCH          | MM     | INCH          | MM    | MIN WIRE    |       | MAX WIRE |       |
|                            |         |                      |              |       |         |        |               |        |               |       | INCH        | MM    | INCH     | MM    |
| 32                         | 63      | 32                   | 2.22         | 56.36 | 3.13    | 79.50  | 2.00          | 50.80  | 1.77          | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 64      |                      | 2.22         | 56.36 | 4.13    | 104.90 | 2.00          | 50.80  | 1.77          | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 65      |                      | 2.22         | 56.36 | 3.13    | 79.50  | 2.23          | 56.64  | 2.11          | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 66      |                      | 2.22         | 56.36 | 4.13    | 104.90 | 2.23          | 56.64  | 2.11          | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 67      |                      | 2.22         | 56.36 | 3.13    | 79.50  | 2.02          | 51.41  | 2.36          | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
|                            | 68      |                      | 2.22         | 56.36 | 4.13    | 104.90 | 2.02          | 51.41  | 2.36          | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
|                            | 69      |                      | 2.22         | 56.36 | 3.13    | 79.50  | 2.55          | 64.77  | 2.77          | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |
|                            | 70      |                      | 2.22         | 56.36 | 4.13    | 104.90 | 2.55          | 64.77  | 2.77          | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |
| 36                         | 71      | 36                   | 2.47         | 62.71 | 4.13    | 104.90 | 2.23          | 56.64  | 2.11          | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 72      |                      | 2.47         | 62.71 | 5.13    | 130.30 | 2.23          | 56.64  | 2.11          | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 73      |                      | 2.47         | 62.71 | 4.13    | 104.90 | 2.02          | 51.41  | 2.36          | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
|                            | 74      |                      | 2.47         | 62.71 | 5.13    | 130.30 | 2.02          | 51.41  | 2.36          | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
|                            | 75      |                      | 2.47         | 62.71 | 4.13    | 104.90 | 2.55          | 64.77  | 2.77          | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |
|                            | 76      |                      | 2.47         | 62.71 | 5.13    | 130.30 | 2.55          | 64.77  | 2.77          | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |
|                            | 77*     |                      | 2.47         | 62.71 | 5.01    | 127.25 | 2.60          | 66.04  | 3.02          | 76.71 | 1.44        | 36.50 | 1.88     | 47.63 |
|                            | 78*     |                      | 2.47         | 62.71 | 6.01    | 152.65 | 2.60          | 66.04  | 3.02          | 76.71 | 1.44        | 36.50 | 1.88     | 47.63 |
|                            | 132     |                      | 2.47         | 62.71 | 4.13    | 104.90 | 1.92          | 48.67  | 1.55          | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 133     |                      | 2.47         | 62.71 | 5.13    | 130.30 | 1.92          | 48.67  | 1.55          | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 146     |                      | 2.47         | 62.71 | 4.13    | 104.90 | 2.60          | 66.04  | 3.02          | 76.71 | 1.44        | 36.50 | 1.84     | 46.74 |
|                            | 147     |                      | 2.47         | 62.71 | 5.13    | 130.30 | 2.60          | 66.04  | 3.02          | 76.71 | 1.44        | 36.50 | 1.84     | 46.74 |
|                            | 148     |                      | 2.47         | 62.71 | 4.13    | 104.90 | 2.00          | 50.80  | 1.77          | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 149     |                      | 2.47         | 62.71 | 5.13    | 130.30 | 2.00          | 50.80  | 1.77          | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
| 40                         | 79      | 40                   | 2.72         | 69.06 | 4.13    | 104.90 | 2.23          | 56.64  | 2.11          | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 80      |                      | 2.72         | 69.06 | 5.13    | 130.30 | 2.23          | 56.64  | 2.11          | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 81      |                      | 2.72         | 69.06 | 4.13    | 104.90 | 2.02          | 51.41  | 2.36          | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
|                            | 82      |                      | 2.72         | 69.06 | 5.13    | 130.30 | 2.02          | 51.41  | 2.36          | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
|                            | 83      |                      | 2.72         | 69.06 | 4.13    | 104.90 | 2.55          | 64.77  | 2.77          | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |
|                            | 84      |                      | 2.72         | 69.06 | 5.13    | 130.30 | 2.55          | 64.77  | 2.77          | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |
|                            | 85      |                      | 2.72         | 69.06 | 4.13    | 104.90 | 2.60          | 66.04  | 3.02          | 76.71 | 1.44        | 36.50 | 1.88     | 47.63 |
|                            | 86      |                      | 2.72         | 69.06 | 5.13    | 130.30 | 2.60          | 66.04  | 3.02          | 76.71 | 1.44        | 36.50 | 1.88     | 47.63 |
|                            | 134     |                      | 2.72         | 69.06 | 4.13    | 104.90 | 1.92          | 48.67  | 1.55          | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 135     |                      | 2.72         | 69.06 | 5.13    | 130.30 | 1.92          | 48.67  | 1.55          | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 156     |                      | 2.72         | 69.06 | 4.13    | 104.90 | 2.00          | 50.80  | 1.77          | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 157     |                      | 2.72         | 69.06 | 5.13    | 130.30 | 2.00          | 50.80  | 1.77          | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 44      |                      | 87           | 44    | 2.97    | 75.41  | 4.13          | 104.90 | 2.23          | 56.64 | 2.11        | 53.67 | 0.88     | 22.23 |
| 88                         |         | 2.97                 | 75.41        |       | 5.13    | 130.30 | 2.23          | 56.64  | 2.11          | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
| 89                         |         | 2.97                 | 75.41        |       | 4.13    | 104.90 | 2.02          | 51.41  | 2.36          | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
| 90                         |         | 2.97                 | 75.41        |       | 5.13    | 130.30 | 2.02          | 51.41  | 2.36          | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
| 91                         |         | 2.97                 | 75.41        |       | 4.13    | 104.90 | 2.55          | 64.77  | 2.77          | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |
| 92                         |         | 2.97                 | 75.41        |       | 5.13    | 130.30 | 2.55          | 64.77  | 2.77          | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |
| 93                         |         | 2.97                 | 75.41        |       | 4.13    | 104.90 | 2.60          | 66.04  | 3.02          | 76.71 | 1.44        | 36.50 | 1.88     | 47.63 |
| 94                         |         | 2.97                 | 75.41        |       | 5.13    | 130.30 | 2.60          | 66.04  | 3.02          | 76.71 | 1.44        | 36.50 | 1.88     | 47.63 |
| 154                        |         | 2.97                 | 75.41        |       | 4.13    | 104.90 | 2.00          | 50.80  | 1.77          | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
| 155                        |         | 2.97                 | 75.41        |       | 5.13    | 130.30 | 2.00          | 50.80  | 1.77          | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
| 48                         | 95      | 48                   | 3.22         | 81.76 | 4.13    | 104.90 | 2.23          | 56.64  | 2.11          | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 96      |                      | 3.22         | 81.76 | 5.13    | 130.30 | 2.23          | 56.64  | 2.11          | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 97      |                      | 3.22         | 81.76 | 4.13    | 104.90 | 2.02          | 51.41  | 2.36          | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
|                            | 98      |                      | 3.22         | 81.76 | 5.13    | 130.30 | 2.02          | 51.41  | 2.36          | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
|                            | 99      |                      | 3.22         | 81.76 | 4.13    | 104.90 | 2.55          | 64.77  | 2.77          | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |
|                            | 100     |                      | 3.22         | 81.76 | 5.13    | 130.30 | 2.55          | 64.77  | 2.77          | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |
|                            | 101     |                      | 3.22         | 81.76 | 4.13    | 104.90 | 2.60          | 66.04  | 3.02          | 76.71 | 1.44        | 36.50 | 1.88     | 47.63 |
|                            | 102     |                      | 3.22         | 81.76 | 5.13    | 130.30 | 2.60          | 66.04  | 3.02          | 76.71 | 1.44        | 36.50 | 1.88     | 47.63 |

\* Denotes Style-2 (see page 486)

For more cable entry and length options see page 486 or email: [sales@backshellworld.com](mailto:sales@backshellworld.com)

All dimensions for reference only.



# Environmental EMI/RFI Backshell

90° and 45°, Spin Coupling

Amphenol

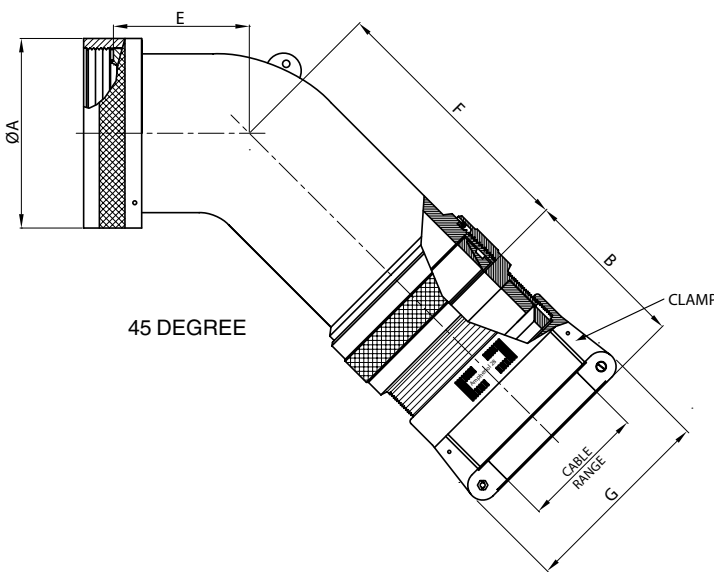
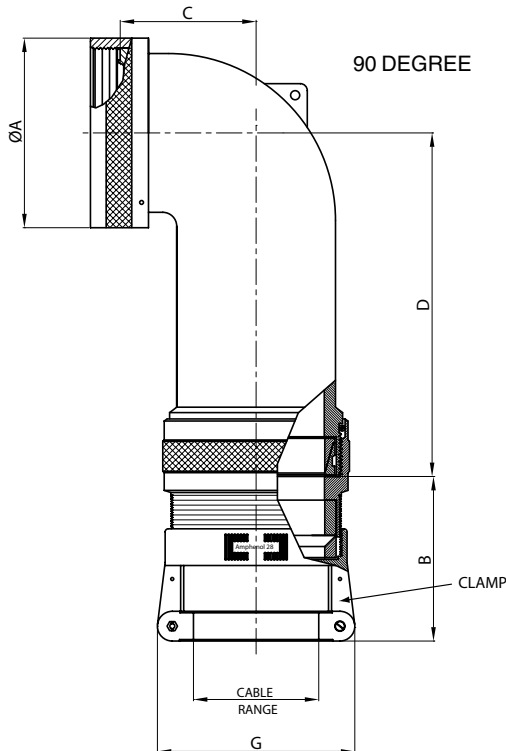
For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III



**MIL Part Number**  
**M85049 / 8 -10 W**

MIL Series \_\_\_\_\_ Finish: See Table-2 (pg. 486)  
Slash Sheet: \_\_\_\_\_ Dash Number: See Table-A  
8: 90°, Spin Coupling  
6: 45°, Spin Coupling

TABLE - A

| MIL PART NUMBER DESIGNATOR |     | CONNECTOR SHELL SIZE | A DIA. (MAX) |       | B (REF) |       | C (MAX) |       | D (MAX) |       | E (MAX) |       | F (MAX) |       | G (MAX) |       | CABLE RANGE |       |          |       |
|----------------------------|-----|----------------------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|-------------|-------|----------|-------|
|                            |     |                      |              |       |         |       |         |       |         |       |         |       |         |       |         |       | MIN WIRE    |       | MAX WIRE |       |
|                            |     |                      | INCH         | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH        | MM    | INCH     | MM    |
| 08                         | 3   | 8                    | 0.62         | 15.67 | 1.54    | 39.22 | 0.67    | 17.02 | 1.26    | 32.00 | 0.63    | 16.00 | 1.25    | 31.75 | 0.96    | 24.31 | 0.13        | 3.18  | 0.25     | 6.35  |
| 10                         | 4   | 10                   | 0.73         | 18.64 | 1.54    | 39.22 | 0.76    | 19.30 | 1.98    | 50.29 | 0.69    | 17.53 | 1.92    | 48.77 | 0.96    | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 49* |                      | 0.73         | 18.64 | 1.54    | 39.22 | 1.52    | 38.61 | 2.00    | 50.80 | 1.50    | 38.10 | 1.98    | 50.29 | 1.15    | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 5   |                      | 0.73         | 18.64 | 1.54    | 39.22 | 0.76    | 19.30 | 1.38    | 35.05 | 0.69    | 17.53 | 1.31    | 33.27 | 1.15    | 29.08 | 0.25        | 6.35  | 0.38     | 9.53  |
| 12                         | 6   | 7/12                 | 0.86         | 21.79 | 1.54    | 39.22 | 0.77    | 19.56 | 2.00    | 50.80 | 0.75    | 19.05 | 1.98    | 50.29 | 0.96    | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 71* |                      | 0.86         | 21.79 | 1.84    | 46.84 | 1.81    | 45.97 | 2.16    | 54.86 | 1.65    | 41.91 | 2.18    | 55.37 | 1.33    | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 7   |                      | 0.86         | 21.79 | 1.54    | 39.22 | 0.77    | 19.56 | 2.00    | 50.80 | 0.75    | 19.05 | 1.98    | 50.29 | 1.15    | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 8   |                      | 0.86         | 21.79 | 1.84    | 46.84 | 0.77    | 19.56 | 1.40    | 35.56 | 0.75    | 19.05 | 1.98    | 50.29 | 1.33    | 33.83 | 0.35        | 8.89  | 0.50     | 12.70 |
| 14                         | 9   | 12/14                | 0.98         | 24.99 | 1.54    | 39.22 | 0.87    | 22.10 | 2.07    | 52.58 | 0.81    | 20.57 | 2.07    | 52.58 | 1.15    | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 10  |                      | 0.98         | 24.99 | 1.84    | 46.84 | 0.87    | 22.10 | 1.72    | 43.69 | 0.81    | 20.57 | 1.72    | 43.69 | 1.33    | 33.83 | 0.35        | 8.89  | 0.58     | 14.61 |
|                            | 50* |                      | 0.98         | 24.99 | 1.92    | 48.67 | 1.89    | 48.01 | 2.33    | 59.18 | 1.84    | 46.74 | 2.37    | 60.20 | 1.55    | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 74  |                      | 0.98         | 24.99 | 1.54    | 39.22 | 0.87    | 22.10 | 2.07    | 52.58 | 0.81    | 20.57 | 2.07    | 52.58 | 0.96    | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
| 16                         | 11  | 19/16                | 1.11         | 28.24 | 1.54    | 39.22 | 1.05    | 26.67 | 2.16    | 54.86 | 0.91    | 23.11 | 2.18    | 55.37 | 1.15    | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 12  |                      | 1.11         | 28.24 | 1.92    | 48.67 | 1.05    | 26.67 | 1.81    | 45.97 | 0.91    | 23.11 | 1.82    | 46.23 | 1.55    | 39.40 | 0.50        | 12.70 | 0.70     | 17.78 |
|                            | 40  |                      | 1.11         | 28.24 | 1.84    | 46.84 | 1.05    | 26.67 | 2.16    | 54.86 | 0.91    | 23.11 | 2.18    | 55.37 | 1.33    | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 51* |                      | 1.11         | 28.24 | 2.00    | 50.80 | 2.04    | 51.82 | 2.44    | 61.98 | 1.94    | 49.28 | 2.52    | 64.01 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 75  |                      | 1.11         | 28.24 | 1.54    | 39.22 | 1.05    | 26.67 | 2.16    | 54.86 | 0.91    | 23.11 | 2.18    | 55.37 | 0.96    | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |

\* Denotes Style-2 (see page 486)

For more cable entry and length options see page 486 or email: sales@backshellworld.com

All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

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III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

26482

83723

III

Matrix | Pyle

26500

Pyle

5015

Crimp Rear Release Matrix

22992

Class I

Back-

Shells

Options

Others

#### For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III

TABLE - A

| MIL PART NUMBER DESIGNATOR |         | CONNECTOR SHELL SIZE | A DIA. (MAX) |       | B (REF) |       | C (MAX) |       | D (MAX) |       | E (MAX) |       | F (MAX) |       | G (MAX) |       | CABLE RANGE |       |          |       |
|----------------------------|---------|----------------------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|-------------|-------|----------|-------|
|                            |         |                      |              |       |         |       |         |       |         |       |         |       |         |       |         |       | MIN WIRE    |       | MAX WIRE |       |
| SHELL SIZE                 | DASH NO |                      | INCH         | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH        | MM    | INCH     | MM    |
| 18                         | 13      | 27/18                | 1.22         | 30.94 | 1.84    | 46.84 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 1.33    | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 14      |                      | 1.22         | 30.94 | 2.00    | 50.80 | 1.14    | 28.96 | 1.98    | 50.29 | 1.09    | 27.69 | 2.00    | 50.80 | 1.77    | 44.96 | 0.63        | 15.88 | 0.78     | 19.79 |
|                            | 41      |                      | 1.22         | 30.94 | 1.54    | 39.22 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 0.96    | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 42      |                      | 1.22         | 30.94 | 1.54    | 39.22 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 1.15    | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 52      |                      | 1.22         | 30.94 | 1.92    | 48.67 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 1.55    | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
| 20                         | 72*     | 37/20                | 1.22         | 30.94 | 2.00    | 50.80 | 2.05    | 52.07 | 2.44    | 61.98 | 1.94    | 49.28 | 2.52    | 64.01 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 15      |                      | 1.35         | 34.16 | 1.84    | 46.84 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 1.33    | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 16      |                      | 1.35         | 34.16 | 2.00    | 50.80 | 1.14    | 28.96 | 1.98    | 50.29 | 1.09    | 27.69 | 2.00    | 50.80 | 1.77    | 44.96 | 0.63        | 15.88 | 0.90     | 22.96 |
|                            | 43      |                      | 1.35         | 34.16 | 1.54    | 39.22 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 1.15    | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
|                            | 54      |                      | 1.35         | 34.16 | 1.92    | 48.67 | 1.14    | 28.96 | 2.33    | 59.18 | 1.09    | 27.69 | 2.37    | 60.20 | 1.55    | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
| 22                         | 55      | 22                   | 1.35         | 34.16 | 2.23    | 56.64 | 2.14    | 54.36 | 2.61    | 66.29 | 2.06    | 52.32 | 2.57    | 65.28 | 2.11    | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 17      |                      | 1.47         | 37.29 | 1.92    | 48.72 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.55    | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 18      |                      | 1.47         | 37.29 | 2.23    | 56.64 | 1.29    | 32.77 | 2.09    | 53.09 | 1.19    | 30.23 | 2.16    | 54.86 | 2.11    | 53.67 | 0.88        | 22.23 | 1.03     | 26.14 |
|                            | 44      |                      | 1.47         | 37.29 | 1.54    | 39.22 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 0.96    | 24.31 | 0.13        | 3.18  | 0.31     | 7.92  |
|                            | 45      |                      | 1.47         | 37.29 | 1.54    | 39.22 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.15    | 29.08 | 0.25        | 6.35  | 0.44     | 11.10 |
| 24                         | 56      | 24                   | 1.47         | 37.29 | 1.84    | 46.84 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.33    | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 57      |                      | 1.47         | 37.29 | 2.00    | 50.80 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 58*     |                      | 1.47         | 37.29 | 2.23    | 56.64 | 2.14    | 54.36 | 2.61    | 66.29 | 2.06    | 52.32 | 2.57    | 65.28 | 2.11    | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 19      |                      | 1.59         | 40.46 | 1.92    | 48.67 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.55    | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 20      |                      | 1.59         | 40.46 | 2.23    | 56.64 | 1.29    | 32.77 | 2.09    | 53.09 | 1.19    | 30.23 | 2.16    | 54.86 | 2.11    | 53.67 | 0.88        | 22.23 | 1.14     | 29.06 |
| 26                         | 46      | 28                   | 1.59         | 40.46 | 1.84    | 46.84 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.33    | 33.83 | 0.35        | 8.89  | 0.63     | 15.88 |
|                            | 59      |                      | 1.59         | 40.46 | 2.00    | 50.80 | 1.29    | 32.77 | 2.44    | 61.98 | 1.19    | 30.23 | 2.52    | 64.01 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 73*     |                      | 1.59         | 40.46 | 2.23    | 56.64 | 2.15    | 54.61 | 2.61    | 66.29 | 2.06    | 52.32 | 2.57    | 65.28 | 2.12    | 53.75 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 21      |                      | 1.97         | 50.01 | 2.00    | 50.80 | 1.39    | 35.31 | 2.61    | 66.29 | 1.31    | 33.27 | 2.57    | 65.28 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 22      |                      | 1.97         | 50.01 | 2.02    | 51.41 | 1.39    | 35.31 | 2.26    | 57.40 | 1.31    | 33.27 | 2.22    | 56.39 | 2.36    | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
| 28                         | 60      | 32                   | 1.97         | 50.01 | 1.92    | 48.67 | 1.39    | 35.31 | 2.61    | 66.29 | 1.31    | 33.27 | 2.57    | 65.28 | 1.55    | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 61      |                      | 1.97         | 50.01 | 2.23    | 56.64 | 1.39    | 35.31 | 2.61    | 66.29 | 1.31    | 33.27 | 2.57    | 65.28 | 2.11    | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 23      |                      | 2.22         | 56.36 | 2.00    | 50.80 | 1.74    | 44.20 | 2.86    | 72.64 | 1.38    | 35.05 | 2.67    | 67.82 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 24      |                      | 2.22         | 56.36 | 2.23    | 56.64 | 1.74    | 44.20 | 2.86    | 72.64 | 1.38    | 35.05 | 2.67    | 67.82 | 2.11    | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 25      |                      | 2.22         | 56.36 | 2.55    | 64.77 | 1.74    | 44.20 | 2.51    | 63.75 | 1.38    | 35.05 | 2.32    | 58.93 | 2.77    | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |
| 32                         | 62      | 36                   | 2.22         | 56.36 | 2.02    | 51.41 | 1.74    | 44.20 | 2.86    | 72.64 | 1.38    | 35.05 | 2.67    | 67.82 | 2.36    | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
|                            | 26      |                      | 2.47         | 62.71 | 2.00    | 50.80 | 1.94    | 49.28 | 2.83    | 71.88 | 1.41    | 35.81 | 2.76    | 70.10 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 27      |                      | 2.47         | 62.71 | 2.02    | 51.41 | 1.94    | 49.28 | 2.83    | 71.88 | 1.41    | 35.81 | 2.76    | 70.10 | 2.36    | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
|                            | 28      |                      | 2.47         | 62.71 | 2.60    | 66.04 | 1.94    | 49.28 | 2.48    | 62.99 | 1.41    | 35.81 | 2.41    | 61.21 | 3.02    | 76.71 | 1.44        | 36.50 | 1.84     | 46.74 |
|                            | 47      |                      | 2.47         | 62.71 | 1.92    | 48.67 | 1.94    | 49.28 | 2.83    | 71.88 | 1.41    | 35.81 | 2.76    | 70.10 | 1.55    | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
| 36                         | 63      | 40                   | 2.47         | 62.71 | 2.23    | 56.64 | 1.94    | 49.28 | 2.83    | 71.88 | 1.41    | 35.81 | 2.76    | 70.10 | 2.11    | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 64      |                      | 2.47         | 62.71 | 2.55    | 64.77 | 1.94    | 49.28 | 2.83    | 71.88 | 1.41    | 35.81 | 2.76    | 70.10 | 2.77    | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |
|                            | 29      |                      | 2.72         | 69.06 | 2.00    | 50.80 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 30      |                      | 2.72         | 69.06 | 2.02    | 51.41 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.36    | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
|                            | 31      |                      | 2.72         | 69.06 | 2.60    | 66.04 | 2.69    | 68.33 | 2.48    | 62.99 | 2.16    | 54.86 | 2.41    | 61.21 | 3.02    | 76.71 | 1.44        | 36.50 | 1.88     | 47.63 |
| 40                         | 48      | 44                   | 2.72         | 69.06 | 1.92    | 48.67 | 1.94    | 49.28 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 1.55    | 39.40 | 0.50        | 12.70 | 0.75     | 19.05 |
|                            | 65      |                      | 2.72         | 69.06 | 2.23    | 56.64 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.11    | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 66      |                      | 2.72         | 69.06 | 2.55    | 64.77 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.77    | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |
|                            | 32      |                      | 2.97         | 75.41 | 2.00    | 50.80 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 33      |                      | 2.97         | 75.41 | 2.02    | 51.41 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.36    | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
| 44                         | 34      | 48                   | 2.97         | 75.41 | 2.60    | 66.04 | 2.69    | 68.33 | 2.48    | 62.99 | 2.16    | 54.86 | 2.41    | 61.21 | 3.02    | 76.71 | 1.44        | 36.50 | 1.88     | 47.63 |
|                            | 67      |                      | 2.97         | 75.41 | 2.23    | 56.64 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.11    | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 68      |                      | 2.97         | 75.41 | 2.55    | 64.77 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.77    | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |
|                            | 35      |                      | 3.22         | 81.76 | 2.00    | 50.80 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 1.77    | 44.96 | 0.63        | 15.88 | 0.94     | 23.80 |
|                            | 36      |                      | 3.22         | 81.76 | 2.02    | 51.41 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.36    | 60.02 | 1.00        | 25.40 | 1.38     | 34.93 |
| 48                         | 37      | 48                   | 3.22         | 81.76 | 2.60    | 66.04 | 2.69    | 68.33 | 2.48    | 62.99 | 2.16    | 54.86 | 2.41    | 61.21 | 3.02    | 76.71 | 1.44        | 36.50 | 1.88     | 47.63 |
|                            | 69      |                      | 3.22         | 81.76 | 2.23    | 56.64 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.11    | 53.67 | 0.88        | 22.23 | 1.25     | 31.75 |
|                            | 70      |                      | 3.22         | 81.76 | 2.55    | 64.77 | 2.69    | 68.33 | 2.83    | 71.88 | 2.16    | 54.86 | 2.76    | 70.10 | 2.77    | 70.36 | 1.25        | 31.75 | 1.63     | 41.28 |

\* Denotes Style-2 (see page 486) For more cable entry and length options see page 486 or email: sales@backshellworld.com. All dimensions for reference only.



# Shrink Boot Adapter

## Straight, Spin Coupling

# Amphenol

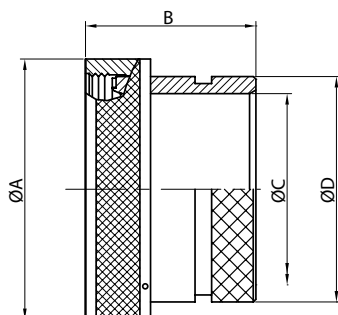
### For Connector Family J

**26482 Matrix Series 2**

**5015 Matrix (MS345X)**

**83723 Matrix & Pyle Series III**

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III



#### MIL Part Number

**M85049 / 60-1 W 10**

MIL Series ————  
Dash Number: See Table-A  
Finish: See Table-2 (pg. 486)  
Slash Sheet: ————  
60-1: Straight, Spin Coupling

**TABLE-A**

| MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE | A DIA. (MAX) |       | B (MAX) |       | C DIA. (MIN) |       | D DIA. (MAX) |       |
|----------------------------------|-------------------------|--------------|-------|---------|-------|--------------|-------|--------------|-------|
|                                  |                         | INCH         | MM    | INCH    | MM    | INCH         | MM    | INCH         | MM    |
| 8                                | 8                       | 0.62         | 15.67 | 1.19    | 30.15 | 0.25         | 6.35  | 0.53         | 13.54 |
| 10                               | 10                      | 0.73         | 18.64 | 1.19    | 30.15 | 0.36         | 9.02  | 0.61         | 15.37 |
| 12                               | 7/12                    | 0.86         | 21.79 | 1.19    | 30.15 | 0.49         | 12.47 | 0.77         | 19.66 |
| 14                               | 12/14                   | 0.98         | 24.99 | 1.19    | 30.15 | 0.57         | 14.35 | 0.84         | 21.29 |
| 16                               | 19/16                   | 1.11         | 28.24 | 1.19    | 30.15 | 0.69         | 17.53 | 0.96         | 24.46 |
| 18                               | 27/18                   | 1.22         | 30.94 | 1.19    | 30.15 | 0.77         | 19.53 | 1.04         | 26.47 |
| 20                               | 37/20                   | 1.35         | 34.16 | 1.19    | 30.15 | 0.89         | 22.71 | 1.22         | 30.91 |
| 22                               | 22                      | 1.47         | 37.29 | 1.19    | 30.15 | 1.02         | 25.88 | 1.36         | 34.42 |
| 24                               | 24                      | 1.59         | 40.46 | 1.19    | 30.15 | 1.13         | 28.80 | 1.44         | 36.65 |
| 28                               | 28                      | 1.97         | 50.01 | 1.51    | 38.38 | 1.37         | 34.77 | 1.71         | 43.41 |
| 32                               | 32                      | 2.22         | 56.36 | 1.51    | 38.38 | 1.62         | 41.02 | 1.92         | 48.74 |
| 36                               | 36                      | 2.47         | 62.71 | 1.51    | 38.38 | 1.83         | 46.48 | 2.17         | 55.09 |
| 40                               | 40                      | 2.72         | 69.06 | 1.51    | 38.38 | 2.05         | 51.94 | 2.40         | 61.01 |
| 44                               | 44                      | 2.97         | 75.41 | 1.51    | 38.38 | 2.30         | 58.42 | 2.66         | 67.49 |
| 48                               | 48                      | 3.22         | 81.76 | 1.51    | 38.38 | 2.55         | 64.77 | 2.91         | 73.84 |

\* Denotes Style-2 (see page 486)

For more cable entry and length options see page 486 or email: [sales@backshellworld.com](mailto:sales@backshellworld.com)

All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

Matrix | Pyle

83723

III

Pyle

26500

Crimp Rear

Release

Matrix

5015

22992

Class I

Back-

Shells

Options

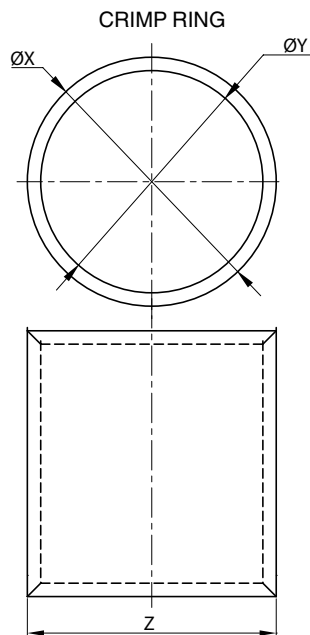
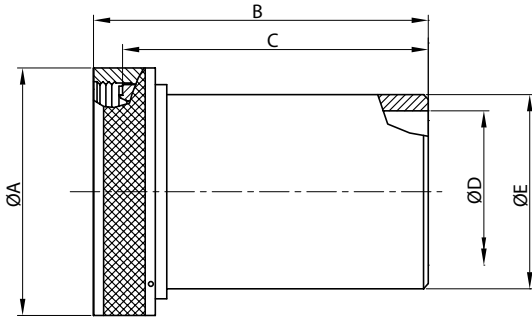
Others

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III



#### MIL Part Number

M85049 / 26 -1 -10 W

MIL Series: M85049 / 26  
Slash Sheet: 26: Straight, Spin Coupling

Crimp Ring:  
1: Adapter  
2: Crimp Ring  
3: Adapter with Crimp Ring

Finish:  
See Table-2  
(pg. 486)  
(Omit for "26-2")

Dash Number:  
See Table-A  
(for 26-1 & 26-3)  
Table -B (for 26-2)

TABLE - A

| MIL PART NUMBER DESIGNATOR | CONNECTOR SHELL SIZE | A DIA (MAX) |       | B (MAX) |       | C (MAX) |       | D DIA (MAX) |       | E DIA. (MAX) |       |
|----------------------------|----------------------|-------------|-------|---------|-------|---------|-------|-------------|-------|--------------|-------|
|                            |                      | INCH        | MM    | INCH    | MM    | INCH    | MM    | INCH        | MM    | INCH         | MM    |
| 8                          | 8                    | 0.62        | 15.67 | 1.28    | 32.34 | 0.96    | 24.38 | 0.25        | 6.35  | 0.35         | 8.81  |
| 10                         | 10                   | 0.73        | 18.64 | 1.28    | 32.34 | 0.96    | 24.38 | 0.33        | 8.26  | 0.50         | 12.70 |
| 12                         | 7/12                 | 0.86        | 21.79 | 1.28    | 32.34 | 0.96    | 24.38 | 0.42        | 10.67 | 0.51         | 12.95 |
| 14                         | 12/14                | 0.98        | 24.99 | 1.28    | 32.34 | 0.96    | 24.38 | 0.54        | 13.72 | 0.63         | 16.00 |
| 16                         | 19/16                | 1.11        | 28.24 | 1.28    | 32.34 | 0.96    | 24.38 | 0.67        | 17.02 | 0.76         | 19.30 |
| 18                         | 27/18                | 1.22        | 30.94 | 1.28    | 32.34 | 0.96    | 24.38 | 0.79        | 20.04 | 0.89         | 22.61 |
| 20                         | 37/20                | 1.35        | 34.16 | 1.28    | 32.34 | 0.96    | 24.38 | 0.91        | 23.22 | 1.01         | 25.65 |
| 22                         | 22                   | 1.47        | 37.29 | 1.28    | 32.34 | 0.96    | 24.38 | 1.04        | 26.39 | 1.13         | 28.70 |
| 24                         | 24                   | 1.59        | 40.46 | 1.28    | 32.34 | 0.96    | 24.38 | 1.11        | 28.24 | 1.20         | 30.48 |
| 28                         | 28                   | 1.97        | 50.01 | 1.44    | 36.55 | 0.96    | 24.38 | 1.39        | 35.28 | 1.56         | 39.62 |
| 32                         | 32                   | 2.22        | 56.36 | 1.44    | 36.55 | 0.96    | 24.38 | 1.64        | 41.53 | 1.81         | 45.97 |
| 36                         | 36                   | 2.47        | 62.71 | 1.44    | 36.55 | 0.96    | 24.38 | 1.85        | 46.99 | 2.06         | 52.32 |
| 40                         | 40                   | 2.72        | 69.06 | 1.44    | 36.55 | 0.96    | 24.38 | 2.07        | 52.45 | 2.31         | 58.67 |
| 44                         | 44                   | 2.97        | 75.41 | 1.44    | 36.55 | 0.96    | 24.38 | 2.32        | 58.93 | 2.56         | 65.02 |
| 48                         | 48                   | 3.22        | 81.76 | 1.44    | 36.55 | 0.96    | 24.38 | 2.57        | 65.28 | 2.81         | 71.37 |

TABLE-B

| TABLE-B                    |               |                      |       |       |      |       |       |       |      |       |      |       |
|----------------------------|---------------|----------------------|-------|-------|------|-------|-------|-------|------|-------|------|-------|
| MIL PART NUMBER DESIGNATOR |               | CONNECTOR SHELL SIZE | X DIA |       |      |       | Y DIA |       |      |       | Z    |       |
| DASH NO                    | PART NO COLOR |                      | MIN   |       | MAX  |       | MIN   |       | MAX  |       |      |       |
|                            |               |                      | INCH  | MM    | INCH | MM    | INCH  | MM    | INCH | MM    | INCH | MM    |
| 8                          | GREEN         | 8                    | 0.45  | 11.38 | 0.46 | 11.63 | 0.40  | 10.16 | 0.41 | 10.41 | 0.25 | 6.35  |
| 10                         | RED           | 10                   | 0.66  | 16.76 | 0.68 | 17.27 | 0.59  | 14.86 | 0.60 | 15.11 | 0.44 | 11.18 |
| 12                         | RED           | 7/12                 | 0.66  | 16.76 | 0.68 | 17.27 | 0.59  | 14.86 | 0.60 | 15.11 | 0.44 | 11.18 |
| 14                         | BLUE          | 12/14                | 0.78  | 19.81 | 0.80 | 20.32 | 0.71  | 17.91 | 0.72 | 18.16 | 0.44 | 11.18 |
| 16                         | GRAY          | 19/16                | 0.91  | 23.11 | 0.93 | 23.62 | 0.84  | 21.21 | 0.85 | 21.46 | 0.44 | 11.18 |
| 18                         | BROWN         | 27/18                | 1.08  | 27.43 | 1.10 | 27.94 | 1.01  | 25.53 | 1.02 | 25.78 | 0.44 | 11.18 |
| 20                         | GREEN         | 37/20                | 1.20  | 30.48 | 1.22 | 30.99 | 1.13  | 28.58 | 1.14 | 28.83 | 0.44 | 11.18 |
| 22                         | PINK          | 22                   | 1.32  | 33.53 | 1.34 | 34.04 | 1.25  | 31.62 | 1.26 | 31.88 | 0.44 | 11.18 |
| 24                         | YELLOW        | 24                   | 1.39  | 35.23 | 1.41 | 35.74 | 1.31  | 33.32 | 1.32 | 33.58 | 0.44 | 11.18 |
| 28                         | RED           | 28                   | 1.74  | 44.20 | 1.76 | 44.70 | 1.67  | 42.29 | 1.68 | 42.55 | 0.44 | 11.18 |
| 32                         | GRAY          | 32                   | 1.99  | 50.55 | 2.01 | 51.05 | 1.92  | 48.64 | 1.93 | 48.90 | 0.44 | 11.18 |
| 36                         | GREEN         | 36                   | 2.24  | 56.90 | 2.26 | 57.40 | 2.17  | 54.99 | 2.18 | 55.25 | 0.44 | 11.18 |
| 40                         | ORANGE        | 40                   | 2.49  | 63.25 | 2.51 | 63.75 | 2.42  | 61.34 | 2.43 | 61.60 | 0.44 | 11.18 |
| 44                         | YELLOW        | 44                   | 2.74  | 69.20 | 2.76 | 70.10 | 2.67  | 67.69 | 2.68 | 67.95 | 0.44 | 11.18 |
| 48                         | BLUE          | 48                   | 2.99  | 75.95 | 3.01 | 76.45 | 2.92  | 74.04 | 2.93 | 74.30 | 0.44 | 11.18 |

All dimensions for reference only.

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)

## Band Lock Adapter

### Straight, 90° and 45°, Self-Lock

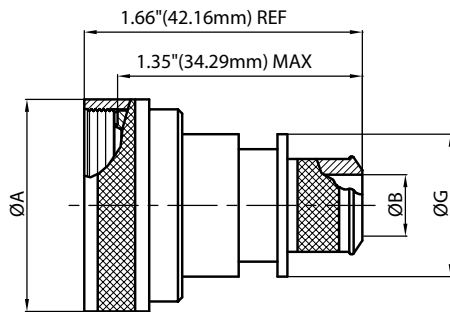
For Connector Family J

26482 Matrix Series 2

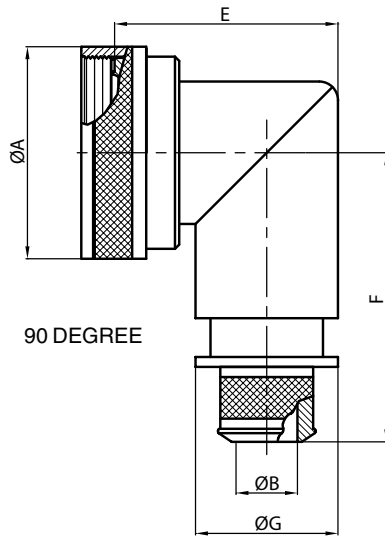
5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

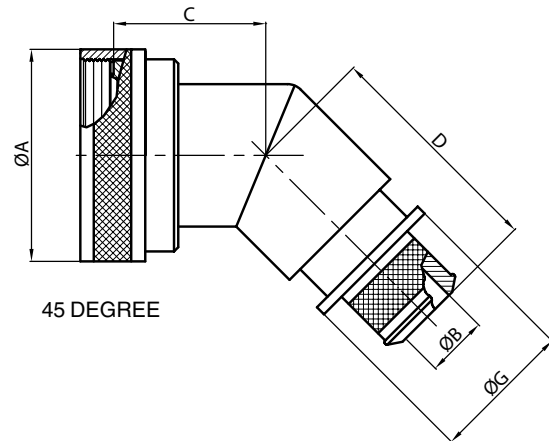
Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III



STRAIGHT



90 DEGREE



45 DEGREE

**MIL Part Number**

**M85049 / 82 -10 W 02**

MIL Series: M85049 / 82  
Slash Sheet: 82: Straight, Self-Lock  
84: 90°, Self-Lock  
83: 45°, Self-Lock

Entry Size: See Table-A

Finish: See Table-2 (pg. 486)

Shell Size: See Table-A

TABLE-A

| TABLE-A                    |            |                      |              |       |                |                |         |       |         |       |         |       |          |       |       |       |
|----------------------------|------------|----------------------|--------------|-------|----------------|----------------|---------|-------|---------|-------|---------|-------|----------|-------|-------|-------|
| MIL PART NUMBER DESIGNATOR |            | CONNECTOR SHELL SIZE | A DIA. (MAX) |       | B DIA. (MAX)   |                | C (MAX) |       | D (MAX) |       | E (MAX) |       | F (MAX.) |       | G MAX |       |
| ACCESSORY SHELL SIZE       | ENTRY SIZE |                      |              |       | +0.00<br>-0.02 | +0.00<br>-0.50 |         |       |         |       |         |       |          |       |       |       |
|                            |            |                      | INCH         | MM    | INCH           | MM             | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH     | MM    | INCH  | MM    |
| 08                         | 02         | 8                    | 0.89         | 22.48 | N/A            | N/A            | 0.87    | 22.10 | 1.16    | 29.46 | 1.19    | 30.18 | 1.42     | 35.99 | N/A   | N/A   |
|                            | 03         |                      |              |       | 0.26           | 6.60           |         |       |         |       |         |       |          |       | 0.56  | 14.22 |
| 10                         | 02         | 10                   | 1.01         | 25.65 | N/A            | N/A            | 0.89    | 22.61 | 1.18    | 29.97 | 1.28    | 32.54 | 1.48     | 37.59 | N/A   | N/A   |
|                            | 03         |                      |              |       | 0.32           | 8.13           |         |       |         |       |         |       |          |       | 0.63  | 16.00 |
| 12                         | 02         | 7 / 12               | 1.14         | 28.83 | 0.32           | 8.13           | 0.92    | 23.37 | 1.20    | 30.48 | 1.41    | 35.71 | 1.54     | 39.17 | 0.63  | 16.00 |
|                            | 03         |                      |              |       | 0.45           | 11.43          |         |       |         |       |         |       |          |       | 0.75  | 19.05 |
| 14                         | 02         | 12 / 14              | 1.26         | 32.00 | 0.45           | 11.43          | 0.94    | 23.88 | 1.22    | 30.99 | 1.53    | 38.89 | 1.61     | 40.77 | 0.75  | 19.05 |
|                            | 03         |                      |              |       | 0.57           | 14.48          |         |       |         |       |         |       |          |       | 0.89  | 22.61 |
| 16                         | 02         | 19 / 16              | 1.39         | 35.18 | 0.51           | 12.95          | 0.96    | 24.38 | 1.25    | 31.75 | 1.66    | 42.06 | 1.67     | 42.34 | 0.82  | 20.83 |
|                            | 03         |                      |              |       | 0.64           | 16.26          |         |       |         |       |         |       |          |       | 0.95  | 24.13 |
| 18                         | 02         | 27 / 18              | 1.51         | 38.35 | 0.64           | 16.26          | 0.98    | 24.89 | 1.26    | 32.00 | 1.72    | 43.64 | 1.73     | 43.94 | 0.95  | 24.13 |
|                            | 03         |                      |              |       | 0.76           | 19.30          |         |       |         |       |         |       |          |       | 1.07  | 27.18 |
| 20                         | 02         | 37 / 20              | 1.64         | 41.53 | 0.64           | 16.26          | 1.00    | 25.40 | 1.29    | 32.77 | 1.84    | 46.84 | 1.79     | 45.52 | 0.95  | 24.13 |
|                            | 03         |                      |              |       | 0.82           | 20.83          |         |       |         |       |         |       |          |       | 1.13  | 28.07 |
| 22                         | 02         | 22                   | 1.76         | 44.70 | 0.70           | 17.78          | 1.03    | 26.16 | 1.31    | 33.27 | 1.94    | 49.23 | 1.85     | 46.99 | 1.02  | 25.99 |
|                            | 03         |                      |              |       | 0.95           | 24.13          |         |       |         |       |         |       |          |       | 1.26  | 32.00 |
| 24                         | 02         | 24                   | 1.89         | 47.88 | 0.76           | 19.30          | 1.05    | 26.67 | 1.34    | 34.04 | 2.09    | 53.16 | 1.92     | 48.69 | 1.07  | 27.18 |
|                            | 03         |                      |              |       | 1.01           | 25.65          |         |       |         |       |         |       |          |       | 1.32  | 33.53 |
| 28                         | 02         | 28                   | 2.14         | 54.23 | 0.89           | 22.61          | 1.10    | 27.94 | 1.38    | 35.05 | 2.53    | 64.29 | 2.04     | 51.87 | 1.19  | 30.23 |
|                            | 03         |                      |              |       | 1.14           | 28.96          |         |       |         |       |         |       |          |       | 1.47  | 37.34 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

Matrix I Pyle

83723

III

26500

Pyle

5015

Crimp Rear Release Matrix

22992

Class I

Back-

Shells

Options

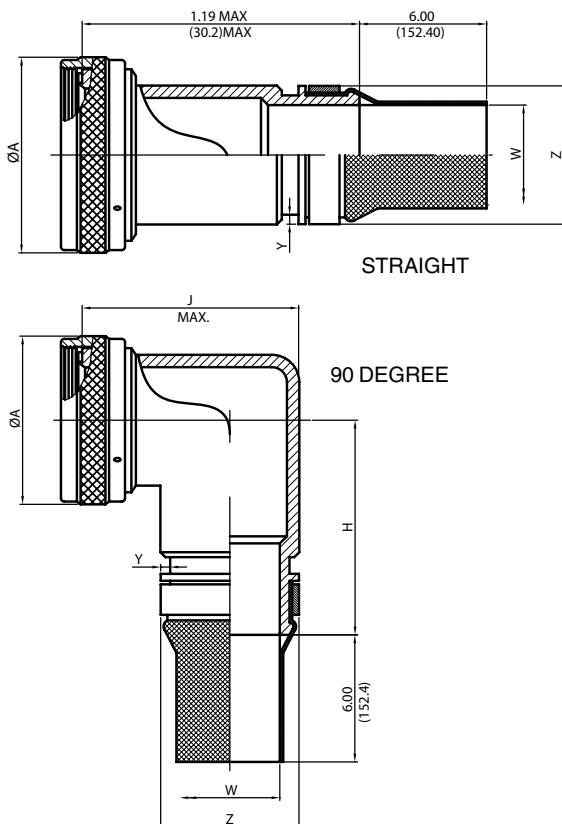
Others

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III



#### MIL Part Number

M85049 / 109 S 10 T W 03 -6 D

MIL Series: M85049 / 109  
Slash Sheet: 109: Straight, 111: 90°  
Coupling: -: Spin Coupling, S: Self-Lock  
Shell Size: See Table-A  
Drain Hole Option: D  
Shield Length: 6 inches min., 18 inches max., 1 inch increments, 6: 6 inch, 7: 7 inch, so on  
Entry Size: See Table-A & B  
Finish: See Table-2 (pg. 486)  
Shield Finish: (Material: Copper) K: Nickel, T: Tin

TABLE - A

| TABLE – A                 |                         |     |                         |             |       |         |       |         |        |
|---------------------------|-------------------------|-----|-------------------------|-------------|-------|---------|-------|---------|--------|
| PART NUMBER<br>DESIGNATOR |                         |     | CONNECTOR<br>SHELL SIZE | A DIA.(MAX) |       | H (MAX) |       | J (MAX) |        |
| SHELL<br>SIZE-<br>MIL     | ALLOWABLE<br>ENTRY SIZE |     |                         | INCH        | MM    | INCH    | MM    | INCH    | MM     |
|                           | MIN                     | MAX |                         |             |       |         |       |         |        |
| 08                        | -                       | 01  | 8                       | 0.885       | 22.48 | 1.73    | 43.94 | 1.12    | 28.45  |
| 10                        | 01                      | 03  | 10                      | 1.010       | 25.65 | 1.85    | 46.99 | 1.25    | 31.75  |
| 12                        | 01                      | 05  | 7/12                    | 1.135       | 28.83 | 1.87    | 47.50 | 1.38    | 35.05  |
| 14                        | 02                      | 06  | 12/14                   | 1.260       | 32.00 | 1.94    | 49.28 | 1.44    | 36.58  |
| 16                        | 04                      | 08  | 19/16                   | 1.385       | 35.18 | 2.03    | 51.56 | 1.56    | 39.62  |
| 18                        | 05                      | 09  | 27/18                   | 1.510       | 38.35 | 2.20    | 55.88 | 1.75    | 44.45  |
| 20                        | 07                      | 11  | 37/20                   | 1.635       | 41.53 | 2.20    | 55.88 | 1.75    | 44.45  |
| 22                        | 09                      | 13  | 22                      | 1.760       | 44.70 | 2.31    | 58.67 | 2.00    | 50.80  |
| 24                        | 11                      | 14  | 24                      | 1.885       | 47.88 | 2.31    | 58.67 | 2.00    | 50.80  |
| 28                        | 14                      | 16  | 28                      | 2.135       | 54.23 | 2.48    | 62.99 | 2.25    | 57.15  |
| 32                        | 16                      | 17  | 32                      | 2.395       | 60.83 | 2.73    | 69.34 | 2.75    | 69.85  |
| 36                        | 17                      | 19  | 36                      | 2.635       | 66.93 | 2.73    | 69.34 | 3.125   | 79.38  |
| 40                        | 19                      | 21  | 40                      | 2.885       | 73.28 | 2.88    | 73.15 | 4.125   | 104.78 |
| 44                        | 21                      | 23  | 44                      | 3.135       | 79.63 | 3.00    | 76.20 | 4.125   | 104.78 |
| 48                        | 23                      | 25  | 48                      | 3.385       | 85.98 | 3.12    | 79.25 | 4.125   | 104.78 |

TABLE - B

| ENTRY SIZE | W ±0.020 | W ±0.508 | Y +0.008 -0.000 | Y +0.200 -0.000 | Z MAX | Z MAX |
|------------|----------|----------|-----------------|-----------------|-------|-------|
|            | INCH     | MM       | INCH            | MM              | INCH  | MM    |
| 01         | 0.250    | 6.350    | 0.044           | 1.12            | 0.56  | 14.22 |
| 02         | 0.312    | 7.920    | 0.044           | 1.12            | 0.63  | 16.00 |
| 03         | 0.375    | 9.530    | 0.044           | 1.12            | 0.69  | 17.53 |
| 04         | 0.438    | 11.130   | 0.044           | 1.12            | 0.75  | 19.05 |
| 05         | 0.500    | 12.700   | 0.044           | 1.12            | 0.82  | 20.83 |
| 06         | 0.562    | 14.270   | 0.044           | 1.12            | 0.89  | 22.61 |
| 07         | 0.625    | 15.880   | 0.044           | 1.12            | 0.95  | 24.13 |
| 08         | 0.688    | 17.480   | 0.044           | 1.12            | 1.02  | 25.91 |
| 09         | 0.750    | 19.050   | 0.069           | 1.75            | 1.07  | 27.18 |
| 10         | 0.812    | 20.620   | 0.069           | 1.75            | 1.13  | 28.70 |
| 11         | 0.875    | 22.230   | 0.069           | 1.75            | 1.19  | 30.23 |
| 12         | 0.938    | 23.830   | 0.069           | 1.75            | 1.26  | 32.00 |
| 13         | 1.000    | 25.400   | 0.069           | 1.75            | 1.32  | 33.53 |
| 14         | 1.125    | 28.575   | 0.069           | 1.75            | 1.47  | 37.34 |
| 15         | 1.250    | 31.750   | 0.069           | 1.75            | 1.60  | 40.64 |
| 16         | 1.375    | 34.930   | 0.069           | 1.75            | 1.71  | 43.43 |
| 17         | 1.500    | 38.100   | 0.086           | 2.18            | 1.84  | 46.74 |
| 18         | 1.625    | 41.280   | 0.086           | 2.18            | 2.00  | 50.80 |
| 19         | 1.750    | 44.450   | 0.086           | 2.18            | 2.12  | 53.85 |
| 20         | 1.875    | 47.630   | 0.086           | 2.18            | 2.27  | 57.66 |
| 21         | 2.000    | 50.800   | 0.086           | 2.18            | 2.44  | 61.98 |
| 22         | 2.125    | 53.980   | 0.086           | 2.18            | 2.60  | 66.04 |
| 23         | 2.250    | 57.150   | 0.086           | 2.18            | 2.75  | 69.85 |
| 24         | 2.375    | 60.325   | 0.086           | 2.18            | 2.90  | 73.66 |
| 25         | 2.500    | 63.500   | 0.086           | 2.18            | 3.06  | 77.72 |

Note: For more cable entry and length options, email: sales@backshellworld.com  
All dimensions for reference only.

## Quick Clamp

Straight, 90° and 45°, Self-Lock/Non Self-Lock

For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III

### MIL Part Number

**M85049 / 53 - 10 W**

MIL Series

Slash Sheet:

53: Straight

55: 90°

54: 45°

Finish:  
See Table-2  
(pg. 486)

Dash Number:  
See Table-A

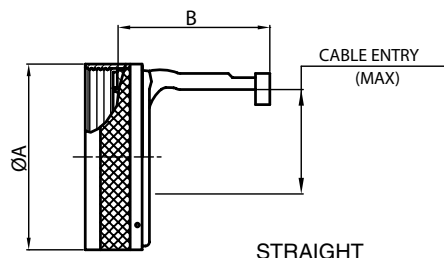
Coupling:

–: Non Self-Lock

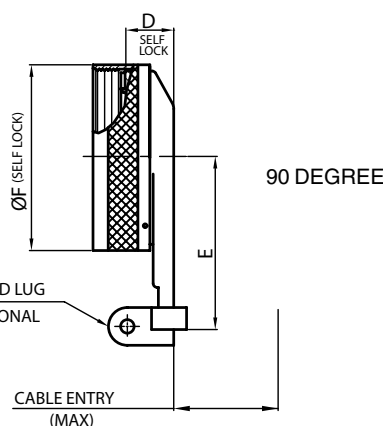
G: Non Self-Lock with  
grounding Lug (only for 90°)

S: Self-Lock (only for 90°)

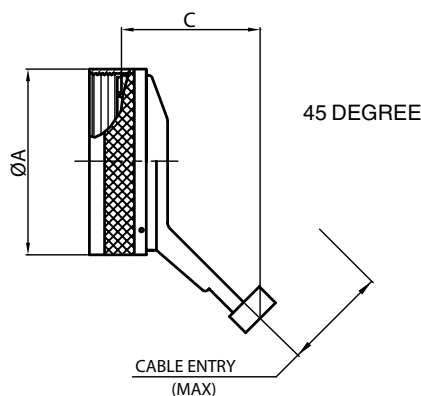
T: Self-Lock with  
grounding lug (only for 90°)



STRAIGHT



90 DEGREE



45 DEGREE

TABLE - A

| MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE | A DIA.(MAX) |       | B (MAX) |       | C (MAX) |       | D (MAX) |       | E (MAX) |       | F DIA.(MAX) |       | WIRING<br>ENTRY MAX |       |
|----------------------------------|-------------------------|-------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|-------------|-------|---------------------|-------|
|                                  |                         | INCH        | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH        | MM    | INCH                | MM    |
| 8                                | 8                       | 0.66        | 16.69 | 0.95    | 24.23 | 1.23    | 31.29 | 0.73    | 18.54 | 1.22    | 30.99 | 0.89        | 22.48 | 0.26                | 6.60  |
| 10                               | 10                      | 0.78        | 19.86 | 0.95    | 24.23 | 1.23    | 31.29 | 0.73    | 18.54 | 1.29    | 32.77 | 1.01        | 25.65 | 0.37                | 9.27  |
| 12                               | 07/12/12                | 0.94        | 23.80 | 0.95    | 24.23 | 1.23    | 31.29 | 0.73    | 18.54 | 1.62    | 41.15 | 1.14        | 28.83 | 0.50                | 12.73 |
| 14                               | 12/14/12                | 1.05        | 26.67 | 1.20    | 30.58 | 1.23    | 31.29 | 0.73    | 18.54 | 1.66    | 42.16 | 1.26        | 32.00 | 0.58                | 14.61 |
| 16                               | 19/16                   | 1.24        | 31.47 | 1.20    | 30.58 | 1.23    | 31.29 | 0.73    | 18.54 | 1.72    | 43.69 | 1.39        | 35.18 | 0.70                | 17.78 |
| 18                               | 27/18                   | 1.38        | 35.00 | 1.20    | 30.58 | 1.23    | 31.29 | 0.73    | 18.54 | 1.72    | 43.69 | 1.51        | 38.35 | 0.78                | 19.79 |
| 20                               | 37/20                   | 1.50        | 38.10 | 1.31    | 33.27 | 1.48    | 37.64 | 0.75    | 19.05 | 1.79    | 45.47 | 1.64        | 41.53 | 0.90                | 22.96 |
| 22                               | 22                      | 1.63        | 41.43 | 1.43    | 36.32 | 1.48    | 37.64 | 0.75    | 19.05 | 1.85    | 46.99 | 1.76        | 44.70 | 1.03                | 26.14 |
| 24                               | 24                      | 1.75        | 44.45 | 1.56    | 39.62 | 1.48    | 37.64 | 0.75    | 19.05 | 1.91    | 48.51 | 1.89        | 47.88 | 1.14                | 29.06 |
| 28                               | 28                      | 1.97        | 50.04 | 1.56    | 39.62 | 1.47    | 37.31 | 0.75    | 19.05 | 2.06    | 52.32 | 2.14        | 54.23 | 1.38                | 35.03 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter  
Transient

26482  
Matrix 2

83723  
III  
Matrix | Pyle

26500  
Pyle

5015  
Crimp Rear  
Release  
Matrix

22992  
Class 1

Back-  
Shells

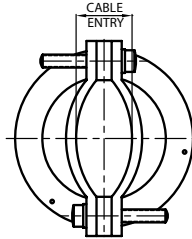
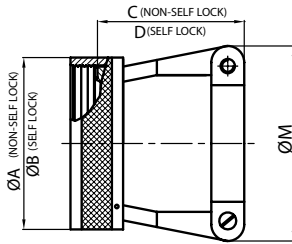
Options  
Others

26482 Matrix Series 2

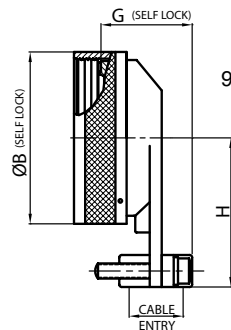
5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

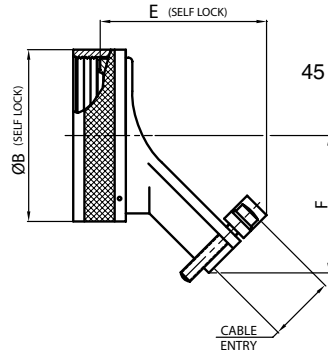
Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III



STRAIGHT



90 DEGREE



45 DEGREE

#### MIL Part Number

M85049 / 52 - 10 W

MIL Series

Slash Sheet:

52: Straight

51: 90°

43: 45°

Coupling:

S: Self-Lock

-: Non Self-Lock for 45° & Straight

-1-: Non Self-Lock for 90°

Finish:

See Table-2  
(pg. 486)

Dash Number:  
See Table-A

TABLE - A

| MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE | A DIA.(MAX) |       | B DIA.(MAX) |       | C (MAX) |       | D (MAX) |       | E (MAX) |       | F (MAX) |       |
|----------------------------------|-------------------------|-------------|-------|-------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
|                                  |                         | INCH        | MM    | INCH        | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    |
| 8                                | 8                       | 0.62        | 15.67 | 0.89        | 22.48 | 0.63    | 16.00 | 0.73    | 18.54 | 1.32    | 33.53 | 0.77    | 19.61 |
| 10                               | 10                      | 0.73        | 18.64 | 1.01        | 25.65 | 0.74    | 18.80 | 0.85    | 21.59 | 1.36    | 34.65 | 0.80    | 20.40 |
| 12                               | 7/12                    | 0.86        | 21.79 | 1.14        | 28.83 | 0.86    | 21.84 | 0.98    | 24.89 | 1.44    | 36.53 | 0.87    | 22.00 |
| 14                               | 12/14                   | 0.98        | 24.99 | 1.26        | 32.00 | 0.86    | 21.84 | 0.98    | 24.89 | 1.48    | 37.59 | 0.93    | 23.57 |
| 16                               | 19/16                   | 1.11        | 28.24 | 1.39        | 35.18 | 0.99    | 25.15 | 1.10    | 27.94 | 1.59    | 40.28 | 0.99    | 25.17 |
| 18                               | 27/18                   | 1.22        | 30.94 | 1.51        | 38.35 | 1.24    | 31.50 | 1.35    | 34.29 | 1.70    | 43.28 | 1.11    | 28.19 |
| 20                               | 37/20                   | 1.35        | 34.16 | 1.64        | 41.53 | 1.36    | 34.54 | 1.48    | 37.59 | 1.75    | 44.40 | 1.17    | 29.77 |
| 22                               | 22                      | 1.47        | 37.29 | 1.76        | 44.70 | 1.49    | 37.85 | 1.60    | 40.64 | 1.79    | 45.52 | 1.24    | 31.37 |
| 24                               | 24                      | 1.59        | 40.46 | 1.89        | 47.88 | 1.61    | 40.89 | 1.73    | 43.94 | 1.84    | 46.63 | 1.30    | 32.94 |
| 28                               | 28                      | 1.97        | 50.01 | 2.14        | 54.23 | 1.76    | 44.70 | 1.88    | 47.75 | 1.96    | 49.81 | 1.54    | 39.19 |
| 32                               | 32                      | 2.22        | 56.36 | 2.40        | 60.83 | 1.95    | 49.53 | 2.13    | 54.10 | 2.05    | 52.04 | 1.67    | 42.37 |
| 36                               | 36                      | 2.47        | 62.71 | 2.64        | 66.93 | 2.33    | 59.18 | 2.44    | 61.98 | 2.09    | 53.16 | 1.79    | 45.54 |
| 40                               | 40                      | 2.72        | 69.06 | 2.89        | 73.28 | 2.51    | 63.75 | 2.63    | 66.80 | 2.09    | 53.19 | 1.92    | 48.72 |
| 44                               | 44                      | 2.97        | 75.41 | 3.14        | 79.63 | 2.89    | 73.41 | 3.00    | 76.20 | 2.36    | 59.94 | 2.13    | 54.15 |
| 48                               | 48                      | 3.22        | 81.76 | 3.39        | 85.98 | 3.26    | 82.80 | 3.40    | 86.36 | 2.45    | 62.18 | 2.26    | 57.33 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.



## Strain Relief Clamp

Straight, 90° and 45°, Self-Lock/Non Self-Lock, cont.

### For Connector Family J

**26482 Matrix Series 2**

**5015 Matrix (MS345X)**

**83723 Matrix & Pyle Series III**

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III

TABLE – A

| MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE | G (MAX) |       | H (MAX) |       | M (MAX) |       | CABLE ENTRY |       |      |       |
|----------------------------------|-------------------------|---------|-------|---------|-------|---------|-------|-------------|-------|------|-------|
|                                  |                         | INCH    | MM    | INCH    | MM    | INCH    | MM    | MIN         |       | MAX  |       |
|                                  |                         |         |       |         |       |         |       | INCH        | MM    | INCH | MM    |
| 08                               | 8                       | 0.93    | 23.62 | 0.75    | 18.95 | 0.78    | 19.86 | 0.13        | 3.18  | 0.20 | 5.18  |
| 10                               | 10                      | 1.02    | 25.91 | 0.81    | 20.45 | 0.86    | 21.89 | 0.19        | 4.75  | 0.29 | 7.26  |
| 12                               | 7/12                    | 1.21    | 30.73 | 0.87    | 22.02 | 1.00    | 25.48 | 0.29        | 7.39  | 0.42 | 10.57 |
| 14                               | 12/14                   | 1.27    | 32.26 | 0.93    | 23.62 | 1.06    | 26.95 | 0.35        | 8.92  | 0.48 | 12.09 |
| 16                               | 19/16                   | 1.42    | 36.07 | 0.99    | 25.25 | 1.33    | 33.88 | 0.50        | 12.73 | 0.63 | 15.90 |
| 18                               | 27/18                   | 1.53    | 38.86 | 1.17    | 29.74 | 1.47    | 37.24 | 0.52        | 13.16 | 0.71 | 17.93 |
| 20                               | 37/20                   | 1.65    | 41.91 | 1.23    | 31.34 | 1.57    | 39.93 | 0.58        | 14.76 | 0.83 | 21.11 |
| 22                               | 22                      | 1.78    | 45.21 | 1.30    | 32.92 | 1.69    | 42.88 | 0.64        | 16.36 | 0.96 | 24.28 |
| 24                               | 24                      | 1.90    | 48.26 | 1.36    | 34.49 | 1.79    | 45.47 | 0.71        | 17.93 | 1.08 | 27.46 |
| 28                               | 28                      | 2.20    | 55.88 | 1.57    | 39.93 | 2.04    | 51.69 | 0.75        | 19.05 | 1.19 | 30.15 |
| 32                               | 32                      | 2.27    | 57.66 | 1.80    | 45.64 | 2.39    | 60.60 | 0.88        | 22.23 | 1.25 | 31.75 |
| 36                               | 36                      | 2.39    | 60.71 | 1.92    | 48.82 | 2.50    | 63.40 | 0.94        | 23.83 | 1.38 | 34.93 |
| 40                               | 40                      | 2.52    | 64.01 | 2.05    | 51.99 | 2.57    | 65.18 | 0.94        | 23.83 | 1.50 | 38.10 |
| 44                               | 44                      | 2.77    | 70.36 | 2.30    | 58.32 | 2.86    | 72.64 | 1.19        | 30.18 | 1.75 | 44.45 |
| 48                               | 48                      | 2.89    | 73.41 | 2.42    | 61.49 | 3.34    | 84.94 | 1.31        | 33.32 | 1.88 | 47.63 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

High Speed  
Fiber Optics  
Contacts

EMI Filter  
Transient

26482  
Matrix 2

83723  
III  
Matrix | Pyle

26500  
Pyle

5015  
Crimp Rear  
Release  
Matrix

22992  
Class I

Back-  
Shells

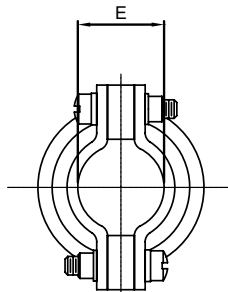
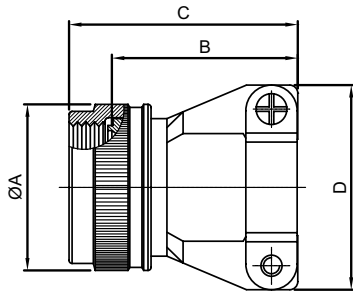
Options  
Others

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III



#### MIL Part Number

**M85049 / 118 - 10 W**

MIL Series

Slash Sheet:  
118: Straight

Finish:  
See Table-2  
(pg. 486)

Dash Number:  
See Table-A

Coupling:  
S: Self-Lock  
-: Non Self-Lock

TABLE - A

| MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE/<br>CODE (REF.) | A DIA.(MAX) |       | B LENGTH  |             | C (MAX) |       | D (MAX) |       | E (CLOSED) |       |
|----------------------------------|-----------------------------------------|-------------|-------|-----------|-------------|---------|-------|---------|-------|------------|-------|
|                                  |                                         |             |       |           |             |         |       |         |       | ±.031      | ±.787 |
| CONNECTOR<br>SHELL SIZE          |                                         | INCH        | MM    | INCH      | MM          | INCH    | MM    | INCH    | MM    | INCH       | MM    |
| 08                               | 8S                                      | 0.89        | 22.61 | 0.77/0.51 | 19.56/12.95 | 1.14    | 28.96 | 0.88    | 22.35 | 0.22       | 5.56  |
| 10                               | 10S, 10SL                               | 1.01        | 25.65 | 0.89/0.64 | 22.61/16.26 | 1.25    | 31.75 | 0.94    | 23.88 | 0.26       | 6.71  |
| 12                               | 12, 12S                                 | 1.14        | 28.96 | 1.01/0.76 | 25.65/19.30 | 1.38    | 35.05 | 1.12    | 28.45 | 0.34       | 8.74  |
| 14                               | 14, 14S                                 | 1.26        | 32.00 | 1.01/0.76 | 25.65/19.30 | 1.38    | 35.05 | 1.19    | 30.23 | 0.46       | 11.68 |
| 16                               | 16, 16S                                 | 1.39        | 35.31 | 1.13/0.88 | 28.70/22.35 | 1.50    | 38.10 | 1.44    | 36.58 | 0.55       | 13.84 |
| 18                               | 18                                      | 1.51        | 38.35 | 1.38/1.13 | 35.05/28.70 | 1.75    | 44.45 | 1.56    | 39.62 | 0.62       | 15.62 |
| 20                               | 20                                      | 1.64        | 41.66 | 1.51/1.25 | 38.35/31.75 | 1.88    | 47.75 | 1.69    | 42.93 | 0.69       | 17.53 |
| 22                               | 22                                      | 1.76        | 44.70 | 1.62/1.38 | 41.15/35.05 | 2.00    | 50.80 | 1.75    | 44.45 | 0.78       | 19.81 |
| 24                               | 24                                      | 1.89        | 48.01 | 1.76/1.51 | 44.70/38.35 | 2.13    | 54.10 | 1.88    | 47.75 | 0.85       | 21.59 |
| 28                               | 28                                      | 2.14        | 54.36 | 2.03/1.67 | 51.56/42.42 | 2.56    | 65.02 | 2.12    | 53.85 | 0.95       | 24.13 |
| 32                               | 32                                      | 2.40        | 60.96 | 2.28/1.87 | 57.91/47.50 | 2.81    | 71.37 | 2.50    | 63.50 | 1.02       | 25.78 |
| 36                               | 36                                      | 2.64        | 67.06 | 2.53/2.22 | 64.26/56.39 | 3.06    | 77.72 | 2.62    | 66.55 | 1.19       | 30.15 |
| 40                               | 40                                      | 2.89        | 73.41 | 2.63/2.41 | 66.80/61.21 | 3.16    | 80.26 | 2.68    | 68.07 | 1.22       | 30.99 |
| 44                               | 44                                      | 3.14        | 79.76 | 3.00/2.80 | 76.20/71.12 | 3.53    | 89.66 | 3.00    | 76.20 | 1.50       | 38.10 |
| 48                               | 48                                      | 3.39        | 86.11 | 3.40/3.20 | 86.36/81.28 | 3.93    | 99.82 | 3.50    | 88.90 | 1.63       | 41.28 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

## Strain Relief Clamp

90°, Self-Lock/Non Self-Lock

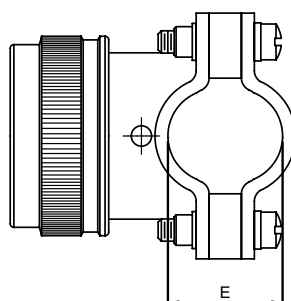
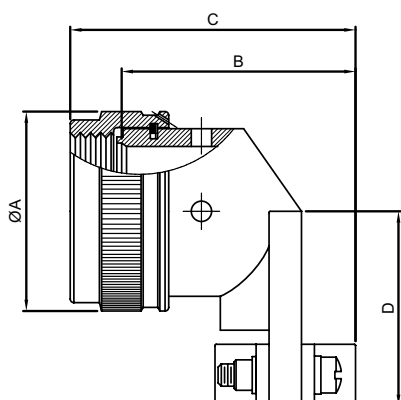
For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III



90 DEGREE

### MIL Part Number

M85049 / 120 - 10 W

MIL Series

Slash Sheet:  
120: 90°

Finish:  
See Table-2  
(pg. 486)

Dash Number:  
See Table-A

Coupling:  
S: Self-Lock  
-: Non Self-Lock

TABLE - A

| MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE | A DIA.(MAX) |       | B (MAX) |       | C (MAX) |       | D (MAX) |       | E (CLOSED) |       |
|----------------------------------|-------------------------|-------------|-------|---------|-------|---------|-------|---------|-------|------------|-------|
|                                  |                         | INCH        | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | ±.031      | ±.787 |
| DASH NO                          |                         |             |       |         |       |         |       |         |       |            |       |
| 08                               | 8S                      | 0.88        | 22.35 | 0.93    | 23.62 | 1.29    | 32.77 | 0.81    | 20.57 | 0.22       | 5.56  |
| 10                               | 10S, 10SL               | 0.94        | 23.88 | 1.02    | 25.91 | 1.38    | 35.05 | 0.87    | 22.10 | 0.26       | 6.71  |
| 12                               | 12, 12S                 | 1.12        | 28.45 | 1.21    | 30.73 | 1.57    | 39.88 | 0.93    | 23.62 | 0.34       | 8.74  |
| 14                               | 14, 14S                 | 1.19        | 30.23 | 1.27    | 32.26 | 1.63    | 41.40 | 1.00    | 25.40 | 0.46       | 11.68 |
| 16                               | 16, 16S                 | 1.44        | 36.58 | 1.42    | 36.07 | 1.78    | 45.21 | 1.06    | 26.92 | 0.55       | 13.84 |
| 18                               | 18                      | 1.56        | 39.62 | 1.53    | 38.86 | 1.89    | 48.01 | 1.23    | 31.24 | 0.62       | 15.62 |
| 20                               | 20                      | 1.69        | 42.93 | 1.65    | 41.91 | 2.01    | 51.05 | 1.30    | 33.02 | 0.70       | 17.73 |
| 22                               | 22                      | 1.75        | 44.45 | 1.78    | 45.21 | 2.14    | 54.36 | 1.36    | 34.54 | 0.78       | 19.81 |
| 24                               | 24                      | 1.88        | 47.75 | 1.90    | 48.26 | 2.26    | 57.40 | 1.42    | 36.07 | 0.85       | 21.59 |
| 28                               | 28                      | 2.12        | 53.85 | 2.20    | 55.88 | 2.72    | 69.09 | 1.63    | 41.40 | 0.95       | 24.13 |
| 32                               | 32                      | 2.50        | 63.50 | 2.27    | 57.66 | 2.79    | 70.87 | 1.86    | 47.24 | 1.02       | 25.78 |
| 36                               | 36                      | 2.62        | 66.55 | 2.39    | 60.71 | 2.91    | 73.91 | 1.98    | 50.29 | 1.19       | 30.15 |
| 40                               | 40                      | 2.68        | 68.07 | 2.52    | 64.01 | 3.04    | 77.22 | 2.10    | 53.34 | 1.22       | 30.99 |
| 44                               | 44                      | 3.00        | 76.20 | 2.77    | 70.36 | 3.29    | 83.57 | 2.36    | 59.94 | 1.50       | 38.10 |
| 48                               | 48                      | 3.50        | 88.90 | 2.89    | 73.41 | 3.41    | 86.61 | 2.48    | 62.99 | 1.63       | 41.28 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

Matrix III

83723

Matrix Pyle

26500

Pyle

5015

Crimp Rear Release Matrix

22992

Class I

Back-

Shells

Options

Others

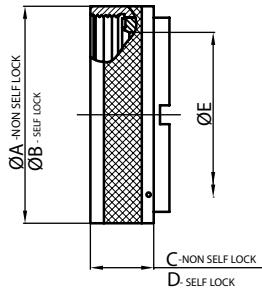
### For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III



#### MIL Part Number

M85049 / 31 - 10 W

MIL Series

Slash Sheet:  
31: Straight

Finish:  
See Table-2  
(pg. 486)

Dash Number:  
See Table-A

Coupling:  
S: Self-Lock  
-: Non Self-Lock

TABLE-A

| TABLE-A                          |                         |              |       |              |       |         |       |         |       |         |       |
|----------------------------------|-------------------------|--------------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|
| MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE | A DIA. (MAX) |       | B DIA. (MAX) |       | C (MAX) |       | D (MAX) |       | E (MAX) |       |
| DASH NO                          |                         | INCH         | MM    | INCH         | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    |
| 08                               | 8                       | 0.62         | 15.67 | 0.89         | 22.48 | 0.54    | 13.72 | 0.71    | 18.03 | 0.27    | 6.86  |
| 10                               | 10                      | 0.73         | 18.64 | 1.01         | 25.65 | 0.54    | 13.72 | 0.71    | 18.03 | 0.38    | 9.53  |
| 12                               | 7/12                    | 0.86         | 21.79 | 1.14         | 28.83 | 0.54    | 13.72 | 0.71    | 18.03 | 0.51    | 12.98 |
| 14                               | 12/14                   | 0.98         | 24.99 | 1.26         | 32.00 | 0.54    | 13.72 | 0.71    | 18.03 | 0.59    | 14.86 |
| 16                               | 19/16                   | 1.11         | 28.24 | 1.39         | 35.18 | 0.54    | 13.72 | 0.71    | 18.03 | 0.71    | 18.03 |
| 18                               | 27/18                   | 1.22         | 30.94 | 1.51         | 38.35 | 0.54    | 13.72 | 0.71    | 18.03 | 0.79    | 20.04 |
| 20                               | 37/20                   | 1.35         | 34.16 | 1.64         | 41.53 | 0.54    | 13.72 | 0.71    | 18.03 | 0.91    | 23.22 |
| 22                               | 22                      | 1.47         | 37.29 | 1.76         | 44.70 | 0.54    | 13.72 | 0.71    | 18.03 | 1.04    | 26.39 |
| 24                               | 24                      | 1.59         | 40.46 | 1.89         | 47.88 | 0.54    | 13.72 | 0.71    | 18.03 | 1.15    | 29.31 |
| 28                               | 28                      | 1.97         | 50.01 | 2.14         | 54.23 | 0.70    | 17.83 | 0.89    | 22.61 | 1.39    | 35.28 |
| 32                               | 32                      | 2.22         | 56.36 | 2.40         | 60.83 | 0.70    | 17.83 | 0.89    | 22.61 | 1.64    | 41.53 |
| 36                               | 36                      | 2.47         | 62.71 | 2.64         | 66.93 | 0.70    | 17.83 | 0.89    | 22.61 | 1.85    | 46.99 |
| 40                               | 40                      | 2.72         | 69.06 | 2.89         | 73.28 | 0.70    | 17.83 | 0.89    | 22.61 | 2.07    | 52.45 |
| 44                               | 44                      | 2.97         | 75.41 | 3.14         | 79.63 | 0.70    | 17.83 | 0.89    | 22.61 | 2.32    | 58.93 |
| 48                               | 48                      | 3.22         | 81.76 | 3.39         | 85.98 | 0.70    | 17.83 | 0.89    | 22.61 | 2.57    | 65.28 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

## Shrink Boot Nut

Straight, Self-Lock/Non Self-Lock

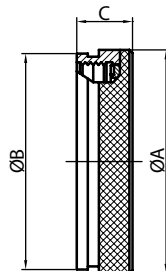
For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:  
MIL-DTL-26482 Series 2,  
MIL-DTL-5015 Matrix (MS345X)  
MIL-DTL-83723 Series III



### MIL Part Number

**M85049 / 31 - 10 W**

MIL Series: M85049 / 31  
Slash Sheet: 31: Straight  
Finish: See Table-2 (pg. 486)  
Dash Number: See Table-A  
Coupling: S: Self-Lock, -: Non Self-Lock

TABLE-A

| MIL PART NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE | A DIA. (MAX) |       | B DIA. (MAX) |       | C (MAX) |       |
|-------------------------------|-------------------------|--------------|-------|--------------|-------|---------|-------|
|                               |                         | INCH         | MM    | INCH         | MM    | INCH    | MM    |
| 08                            | 8                       | 0.69         | 17.48 | 0.66         | 16.69 | 0.54    | 13.72 |
| 10                            | 10                      | 0.80         | 20.40 | 0.77         | 19.66 | 0.54    | 13.72 |
| 12                            | 7/12                    | 0.94         | 23.83 | 0.90         | 22.81 | 0.54    | 13.72 |
| 14                            | 12/14                   | 1.06         | 27.00 | 1.02         | 26.01 | 0.54    | 13.72 |
| 16                            | 19/16                   | 1.24         | 31.45 | 1.15         | 29.26 | 0.54    | 13.72 |
| 18                            | 27/18                   | 1.31         | 33.27 | 1.24         | 31.57 | 0.54    | 13.72 |
| 20                            | 37/20                   | 1.44         | 36.47 | 1.37         | 34.80 | 0.54    | 13.72 |
| 22                            | 22                      | 1.56         | 39.62 | 1.44         | 36.65 | 0.54    | 13.72 |
| 24                            | 24                      | 1.69         | 42.82 | 1.62         | 41.10 | 0.54    | 13.72 |
| 28                            | 28                      | 2.06         | 52.37 | 1.97         | 50.01 | 0.70    | 17.83 |
| 32                            | 32                      | 2.31         | 58.72 | 2.22         | 56.36 | 0.70    | 17.83 |
| 36                            | 36                      | 2.56         | 65.07 | 2.47         | 62.71 | 0.70    | 17.83 |
| 40                            | 40                      | 2.81         | 71.42 | 2.72         | 69.06 | 0.70    | 17.83 |
| 44                            | 44                      | 3.06         | 77.77 | 2.97         | 75.41 | 0.70    | 17.83 |
| 48                            | 48                      | 3.31         | 84.12 | 3.22         | 81.76 | 0.70    | 17.83 |

Note: For more cable entry and length options, email: [sales@backshellworld.com](mailto:sales@backshellworld.com)  
All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter  
Transient

Matrix 2

26482

Matrix I Pyle

83723  
III

Pyle

26500

Matrix

5015  
Crimp Rear  
Release

Class I

22992

Back-  
Shells

Options  
Others