



MIL-PRF-24758A

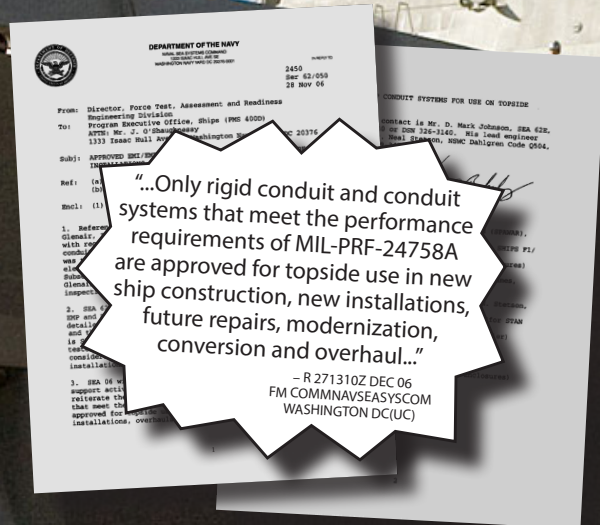
SHIPBOARD INTERCONNECT AND CONDUIT SOLUTIONS

DLA / US NAVY APPROVED FOR TOPSIDE APPLICATIONS

NOVEMBER 2013



**Do It Once,
Do It Right!**



A Seaman in the United States Navy, and the brand name of the Glenair MIL-24758A(SH) Weatherproof EMI Shielded Flexible Conduit System. Although haze gray in color, the product is named "*BlueJacket*" in honor of the dedicated Navy personnel who work with these products under arduous topside conditions.

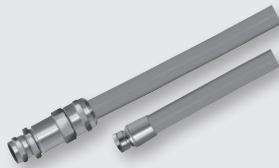
***Glenair Still Manufactures and Stocks Legacy MIL-C-24758 Conduit Systems and Fittings. See www.glenair.com.**



**“BlueJacket” Shipboard Connector and
MIL-PRF-24758A Conduit Solutions
Table of Contents**



MIL-PRF
24758A



MIL-PRF-24758A EMI/EMP Conduit Systems

A



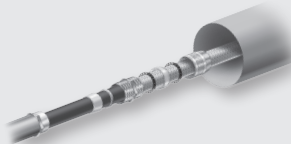
MIL-DTL-28840 Shipboard Electrical Connectors

B



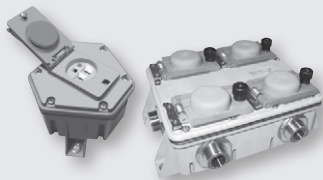
MIL-PRF-28876 Type Fiber Optic Shipboard Connectors

C



GA-CSGA Cable Shield Grounding Assemblies

D



Composite Thermoplastic EMI/EMP Junction Boxes

E



Shipboard Wire and Cable Feedthroughs

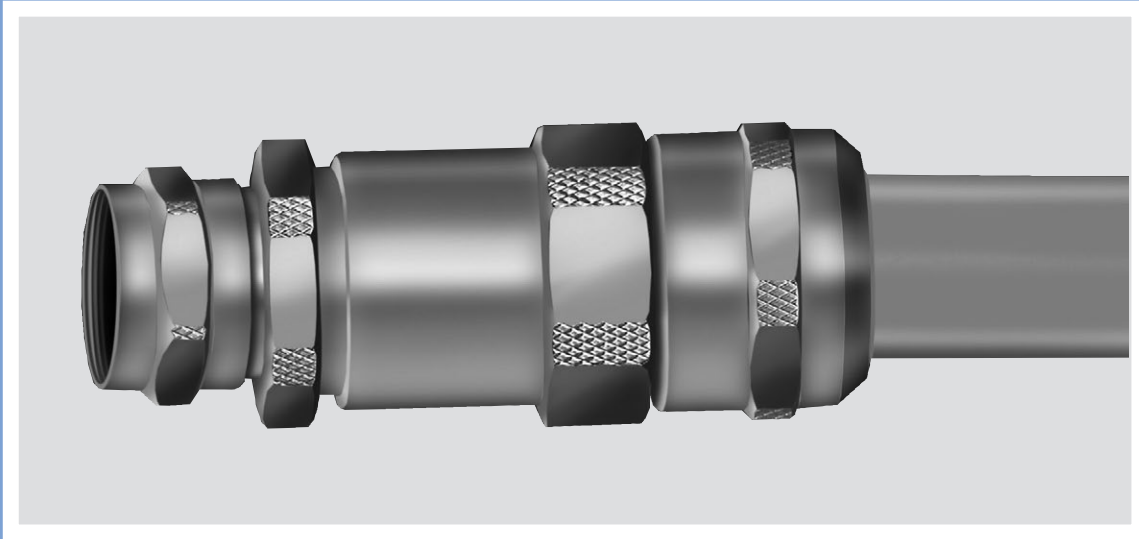
F



Appendix:
S9407-AB-HBK-010 Shipboard EMI Shielding Practices Handbook
Glenair Qualified GR 2000 and RP2000 Series Fittings
MasterSeal Self-Vulcanizing Tape
Selected Materials and Finishes
Accessory Interface Data

G

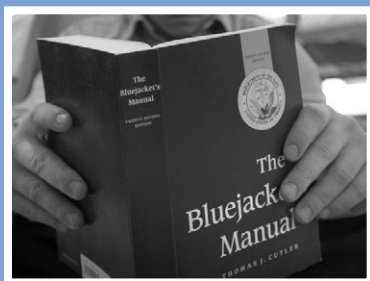
Haze Gray and Underway!



Introducing the Glenair MIL-PRF-24758A “BlueJacket” Conduit System

Most topside shipboard conduit users have simple expectations, such as conduit fittings that don't leak or corrode and will last for the full lifetime of a ship. They also want jacket materials that can withstand high heat, extreme UV radiation, demanding weather conditions and caustic chemicals and fluids.

Glenair's U.S. Navy qualified MIL-PRF-24758A conduit system delivers on these expectations—and a whole lot more. Our shielded brass conduit meets all EMI shielding and surface transfer impedance requirements. Our jacket material, which we've named “BlueJacket” in honor of the dedicated Navy personnel



who work with these products in arduous conditions on a daily basis, is a special formula that exceeds all the specifications of MIL-PRF-24758A. These demanding requirements include UV weathering, temperature tolerance, low smoke and toxicity index, flame resistance, and halogen free (IEC754-1) ratings.

And that's not all. Our unique fitting design provides the easiest assembly and the most reliable performance ever in topside conduit systems—no more loosening, no more leaks, no more corrosion, and no more costly replacement of relatively new components that failed to withstand the harsh environmental challenges of shipboard use.

So whether your requirements call for factory terminated M24758A assemblies with lightweight soldered fittings, or field terminated bulk conduit, adapters and fittings, Glenair BlueJacket is “Haze Gray and Underway” and more than ready to exceed all your expectations.

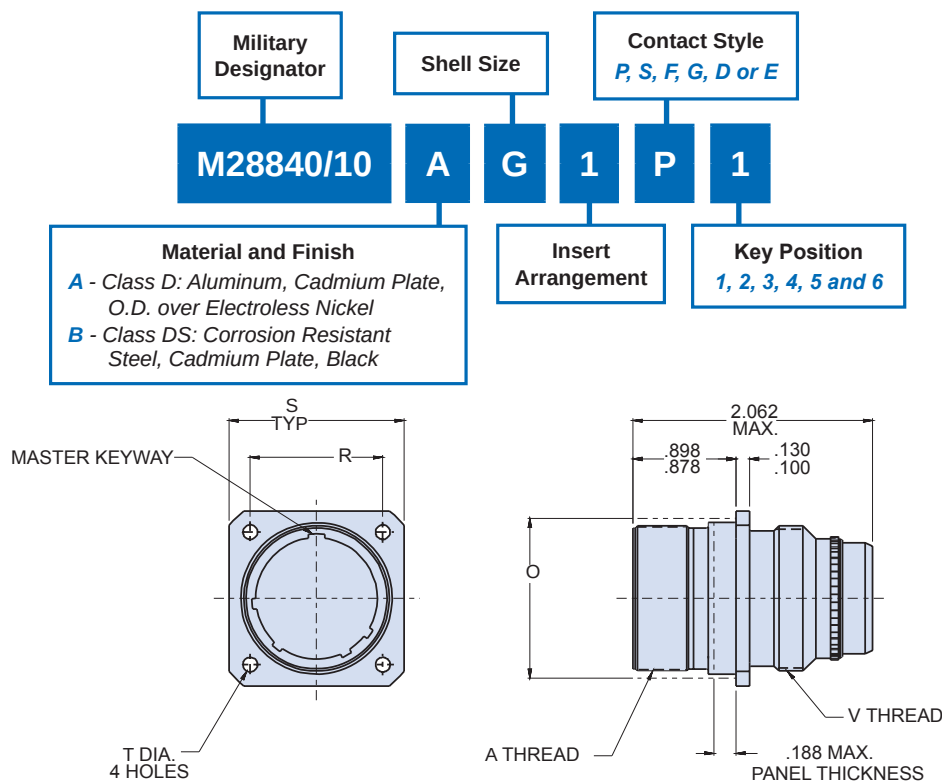


1211 Air Way
Glendale, California 91201-2497
Telephone: 818-247-6000 · Facsimilie: 818-500-9912 · EMail: sales@glenair.com
www.glenair.com

M28840/10 Wall Mount Receptacle Connector



MIL-DTL
28840

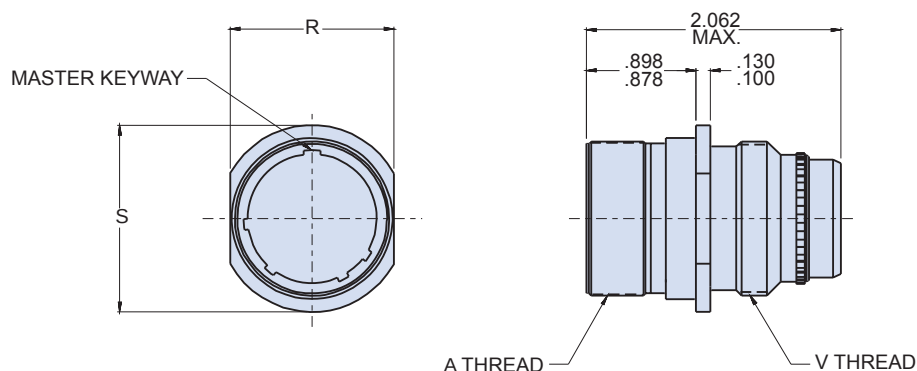
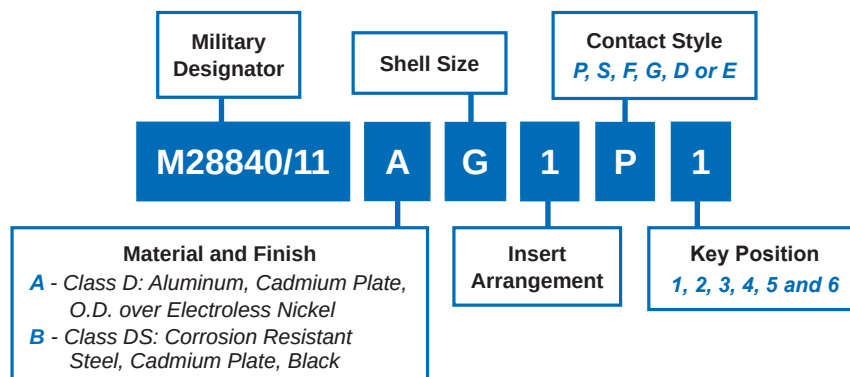


B

Military Shell Size	Shell Size	A Thread Class 2A	V Thread Class 2A	Ø Ref. Mtg. Hole	R True Position ϕ to ϕ	S	T Diameter
A	11	.750-.1P-.2L-D.S.	.750-20 UNEF	.812 (20.62)	.750 (19.05)	1.043 (26.49) 1.003 (25.48)	.130 (3.30) .115 (2.92)
B	13	.875-.1P-.2L-D.S.	.875-20 UNEF	.937 (23.80)	.843 (21.41)	1.158 (29.41) 1.118 (28.40)	
C	15	1.062-.1P-.2L-D.S.	1.000-20 UNEF	1.124 (28.55)	.968 (24.59)	1.278 (32.46) 1.238 (31.45)	
D	17	1.125-.1P-.2L-D.S.	1.125-18 UNEF	1.187 (30.15)	1.015 (25.78)	1.403 (35.64) 1.363 (34.62)	
E	19	1.312-.1P-.2L-D.S.	1.250-18 UNEF	1.374 (34.90)	1.140 (28.96)	1.528 (38.81) 1.488 (37.80)	
F	23	1.500-.1P-.2L-D.S.	1.437-18 UNEF	1.562 (39.67)	1.281 (32.54)	1.738 (44.15) 1.698 (43.13)	
G	25	1.625-.1P-.2L-D.S.	1.562-18 UNEF	1.687 (42.85)	1.392 (35.36)	1.838 (46.69) 1.798 (45.67)	.157 (3.99) .142 (3.61)
H	29	1.812-.1P-.2L-D.S.	1.875-16 UN	1.874 (47.60)	1.568 (39.83)	2.158 (54.81) 2.118 (53.80)	
J	33	2.000-.1P-.2L-D.S.	2.062-16 UNS	2.062 (52.37)	1.734 (44.04)	2.348 (59.64) 2.308 (58.62)	.183 (4.65) .168 (4.27)

M28840/11 In-Line Receptacle Connector

B

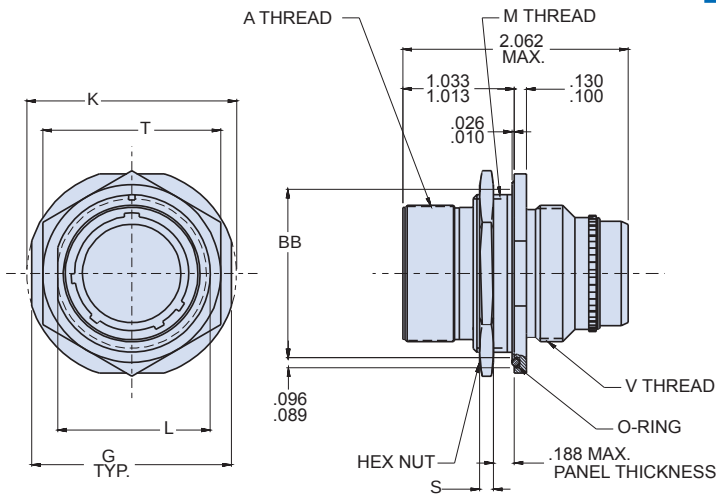


Military Shell Size	Shell Size	A Thread Class 2A	V Thread Class 2A	R	S Diameter
A	11	.750-.1P-.2L-D.S.	.750-20 UNEF	.768 (19.51) .758 (19.25)	.963 (24.46) .943 (23.95)
B	13	.875-.1P-.2L-D.S.	.875-20 UNEF	.893 (22.68) .883 (22.43)	1.088 (27.63) 1.063 (27.13)
C	15	1.062-.1P-.2L-D.S.	1.000-20 UNEF	1.080 (27.43) 1.070 (27.18)	1.275 (32.38) 1.255 (31.88)
D	17	1.125-.1P-.2L-D.S.	1.125-18 UNEF	1.143 (29.03) 1.133 (28.78)	1.338 (33.98) 1.318 (33.48)
E	19	1.312-.1P-.2L-D.S.	1.250-18 UNEF	1.330 (33.78) 1.320 (33.53)	1.525 (38.74) 1.505 (38.23)
F	23	1.500-.1P-.2L-D.S.	1.437-18 UNEF	1.518 (38.56) 1.508 (38.30)	1.713 (43.51) 1.693 (43.00)
G	25	1.625-.1P-.2L-D.S.	1.562-18 UNEF	1.643 (41.73) 1.633 (41.48)	1.838 (46.09) 1.818 (46.18)
H	29	1.812-.1P-.2L-D.S.	1.875-16 UN	1.893 (48.08) 1.883 (47.83)	2.088 (53.04) 2.068 (52.53)
J	33	2.000-.1P-.2L-D.S.	2.062-16 UNS	2.080 (52.83) 2.070 (52.58)	2.275 (57.78) 2.255 (57.28)

M28840/14 Jam Nut Mount Receptacle Connector



MIL-DTL
28840



Material and Finish

- A** - Class D: Aluminum, Cadmium Plate, O.D. over Electroless Nickel
- B** - Class DS: Corrosion Resistant Steel, Cadmium Plate, Black

Key Position

1, 2, 3, 4, 5 and 6

Insert Arrangement

M28840/14

Military Designator

A

Shell Size

G

1

P

1

Contact Style
P, S, F, G, D or E

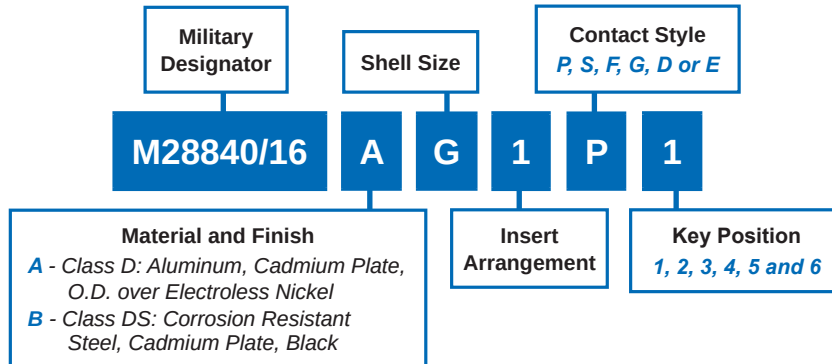
B

Designator	BB	G	K	L Across Flat	M Thread Class 2A	N Max.	P	R Max.	S Hex Nut Thickness	T ±.017 (0.43)
A (11)	.979 (24.87) .969 (24.61)	1.274 (32.36) 1.254 (31.85)	1.368 (34.75) 1.348 (34.24)	.841 (21.36) .832 (21.13)	7/8-20 UNEF	.750 (19.05)	.890 (22.61) .880 (22.35)	.875 (22.22)	.125 (3.17)	1.062 (26.97)
B (13)	1.104 (28.04) 1.094 (27.79)	1.399 (35.53) 1.379 (35.03)	1.508 (38.30) 1.488 (37.80)	.966 (24.54) .957 (24.31)	1-20 UNEF	.875 (22.22)	1.015 (24.78) 1.005 (25.53)	1.000 (25.40)		1.188 (30.18)
C (15)	1.292 (32.82) 1.282 (32.56)	1.587 (40.31) 1.567 (39.80)	1.681 (42.70) 1.661 (42.19)	1.156 (29.29) 1.144 (29.06)	1 3/16-18 UNEF	1.062 (26.97)	1.203 (30.56) 1.193 (30.30)	1.188 (30.18)		1.375 (34.93)
D (17)	1.354 (34.39) 1.344 (34.14)	1.649 (41.88) 1.629 (41.38)	1.743 (44.27) 1.723 (43.76)	1.216 (30.89) 1.207 (30.66)	1 1/4-18 UNEF	1.125 (28.58)	1.265 (32.13) 1.255 (31.88)	1.250 (31.75)		1.438 (36.53)
E (19)	1.542 (39.17) 1.532 (38.91)	1.837 (46.66) 1.817 (46.15)	1.931 (49.05) 1.911 (48.54)	1.403 (35.64) 1.394 (35.41)	1 7/16-18 UNEF	1.312 (33.32)	1.453 (36.91) 1.443 (36.65)	1.438 (36.52)		1.625 (41.28)
F (23)	1.729 (43.92) 1.718 (43.66)	2.024 (51.41) 2.004 (50.90)	2.118 (53.80) 2.098 (53.29)	1.591 (40.41) 1.582 (40.18)	1 5/8-18 UNEF	1.500 (38.10)	1.640 (41.66) 1.630 (41.40)	1.625 (41.28)		1.812 (46.02)
G (25)	1.854 (47.09) 1.844 (46.84)	2.149 (54.58) 2.129 (54.08)	2.243 (56.97) 2.223 (56.46)	1.716 (43.59) 1.707 (43.36)	1 3/4-18 UNS	1.625 (41.28)	1.765 (44.83) 1.755 (44.58)	1.750 (44.45)	.189 (4.8)	2.000 (50.80)
H (29)	2.042 (51.87) 2.032 (51.61)	2.337 (59.36) 2.317 (58.85)	2.435 (61.85) 2.415 (61.34)	1.903 (46.34) 1.894 (48.11)	1 15/16-16 UN	1.812 (46.02)	1.953 (49.61) 1.943 (49.35)	1.938 (49.22)		2.188 (55.58)
J (33)	2.229 (56.62) 2.219 (56.36)	2.524 (64.11) 2.504 (63.60)	2.618 (66.50) 2.598 (65.99)	2.091 (53.11) 2.082 (52.88)	2 1/8-16 UN	2.000 (50.80)	2.140 (54.36) 2.130 (54.10)	2.125 (53.98)		2.375 (69.85)

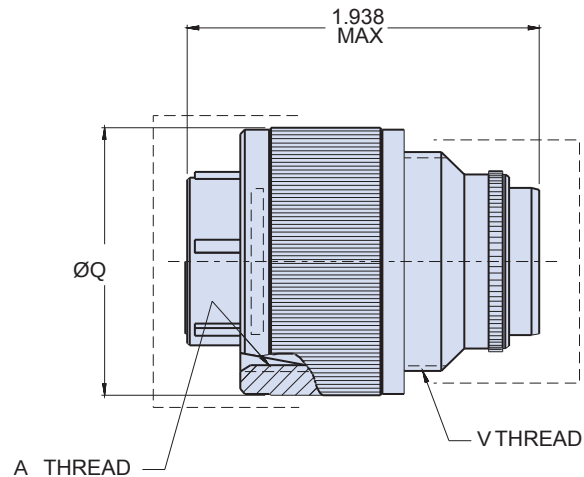
M28840/16 Plug Connector



MIL-DTL
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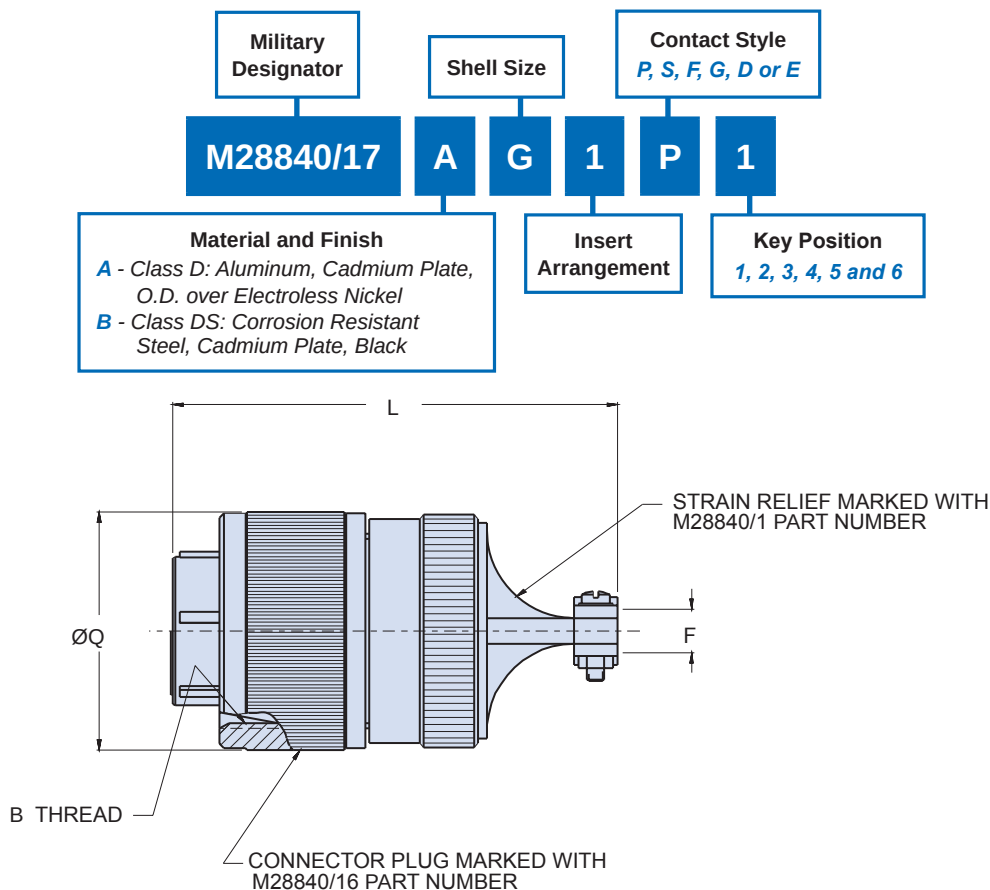
B



Designator	A Thread Class 2B	V Thread Class 2A	Ø Q Max.
A (11)	.750-1P-.2L-DS	3/4-20 UNEF	1.028 (26.11)
B (13)	.875-1P-.2L-DS	7/8-20 UNEF	1.141 (28.98)
C (15)	1.062-1P-.2L-DS	1-20 UNEF	1.263 (32.08)
D (17)	1.125-1P-.2L-DS	1 1/8-18 UNEF	1.387 (35.23)
E (19)	1.312-1P-.2L-DS	1 1/4-18 UNEF	1.513 (38.43)
F (23)	1.500-1P-.2L-DS	1 7/16-18 UNEF	1.703 (43.26)
G (25)	1.625-1P-.2L-DS	1 9/16-18 UNEF	1.825 (46.36)
H (29)	1.812-1P-.2L-DS	1 7/8-16 UN	2.143 (54.43)
J (33)	2.000-1P-.2L-DS	2 1/16-16 UNS	2.329 (59.16)

M28840/17 Plug Connector with Straight Strain Relief

B

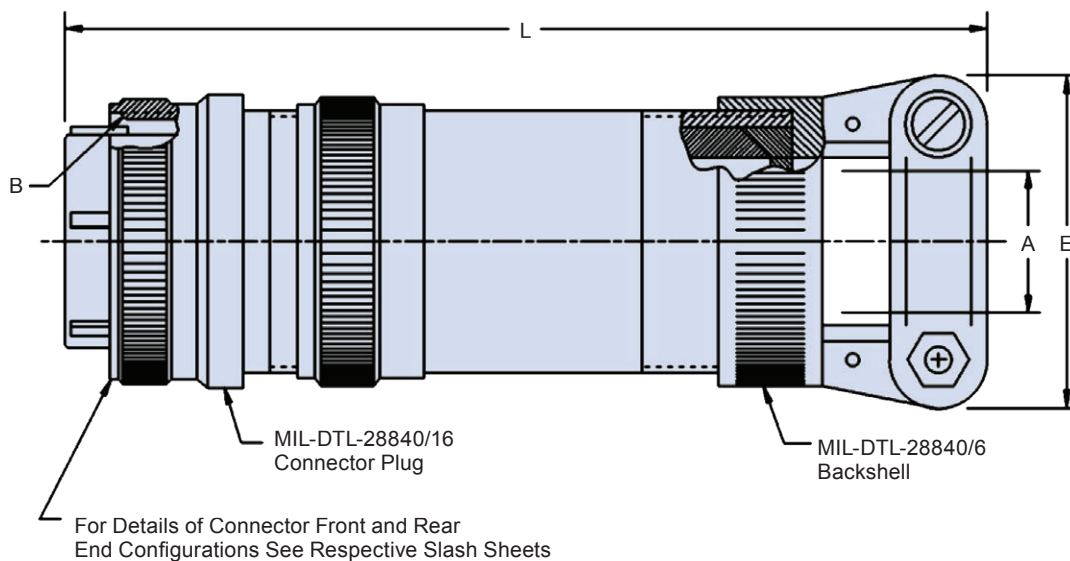
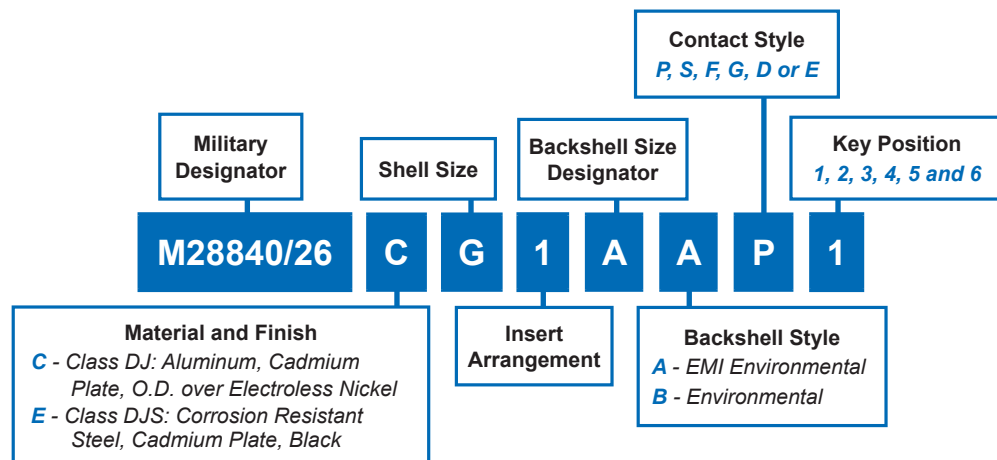


Designator	B Thread Class 2B	F Cable Entry		L Max.	Q Max.	Max. O.D. Over Rear Clamps
		Open	Closed			
A (11)	.750-1P-.2L-DS	.286	.177	2.438	1.028	.832
B (13)	.875-1P-.2L-DS	.286			1.141	
C (15)	1.062-1P-.2L-DS	.416			1.263	
D (17)	1.125-1P-.2L-DS	.476	.291	2.688	1.387	1.094
E (19)	1.312-1P-.2L-DS	.626	.348	2.812	1.513	1.319
F (23)	1.500-1P-.2L-DS	.831	.429	2.938	1.703	1.557
G (25)	1.625-1P-.2L-DS	.956	.523	3.062	1.825	1.653
H (29)	1.812-1P-.2L-DS	1.081	.643	3.188	2.143	1.819
J (33)	2.000-1P-.2L-DS	1.187	.704	3.375	2.329	2.020

M28840/26 Plug Connector with Straight EMI/RFI Backshell



MIL-DTL
28840





M28840/26 Plug Connector with Straight EMI/RFI Backshell

B

Military Shell Size	Shell Size	B Thread Class 2B	Backshell Size Designator	A Cable Entry		E Max.	L Max.
				Open	Closed		
A	11	.750-1P-.2L-DS	A	.312	.188	.938	6.500
			B	.438	.281	1.125	
			C	.562	.344	1.312	
B	13	.875-1P-.2L-DS	A	.312	.188	.938	6.500
			B	.438	.281	1.125	
			C	.562	.344	1.312	
C	15	1.062-1P-.2L-DS	D	.652	.375	1.312	7.000
			A	.438	.281	1.125	6.500
			B	.562	.344	1.312	
D	17	1.125-1P-.2L-DS	C	.625	.375	1.312	7.000
			D	.750	.438	1.593	
			E	.312	.188	.938	
E	19	1.312-1P-.2L-DS	A	.625	.375	1.312	7.500
			B	.938	.625	1.750	7.625
			C	.625	.375	1.312	7.812
F	23	1.500-1P-.2L-DS	A	.750	.438	1.593	7.625
			B	.938	.625	1.750	8.312
			C	1.188	.812	2.093	
G	25	1.625-1P-.2L-DS	A	.938	.625	1.750	
			B	1.188	.812	2.093	
			C	1.250	.875	2.093	
H	29	1.812-1P-.2L-DS	D	1.380	1.000	2.343	
			A	1.188	.812	2.093	8.312
			B	1.380	1.000	2.343	
J	33	2.000-1P-.2L-DS	A	1.380	1.000	2.343	
			B	1.625	1.250	2.750	8.625