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## REVISION

| ZONE | REV | DESCRIPTION | DATE       | CHANGED BY | APPROVED   |
|------|-----|-------------|------------|------------|------------|
|      | B   | ECO-13347   | 01/03/2024 | DZINN      | REVANGELIS |

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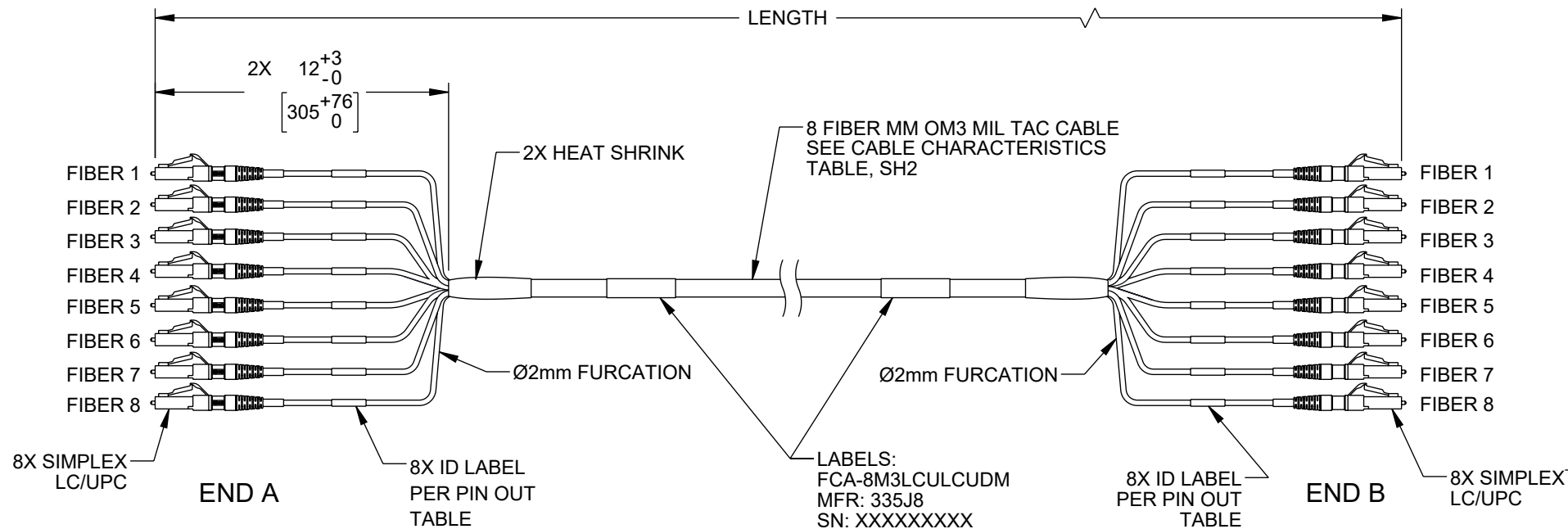
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| ITEM NUMBER        | LENGTH |       |
|--------------------|--------|-------|
|                    | METERS | FEET  |
| FCA-8M3LCULCUDM-10 | 10     | 32.81 |
| FCA-8M3LCULCUDM-15 | 15     | 49.21 |
| FCA-8M3LCULCUDM-20 | 20     | 65.62 |

| LENGTH (L)  | LENGTH TOLERANCE               |
|---|--------------------------------|
| $L \leq 6\text{M}$ [19.69 FT]                             | $+0.15\text{ M}$ [.49 FT] / -0 |
| $L > 6\text{M}$ [19.69 FT] & $\leq 30\text{M}$ [98.43 FT] | $+0.3\text{ M}$ [.98 FT] / -0  |
| $L > 30\text{M}$ [98.43 FT]                               | $+1\text{ M}$ [3.28 FT] / -0   |

| PIN OUT |       |
|---------|-------|
| END A   | END B |
| 1       | 1     |
| 2       | 2     |
| 3       | 3     |
| 4       | 4     |
| 5       | 5     |
| 6       | 6     |
| 7       | 7     |
| 8       | 8     |

## NOTES:

- LC CONNECTOR ASSEMBLY POLISH TYPE: UPC
- CONNECTORS ARE SUPPLIED WITH DUST CAPS INSTALLED, NOT SHOWN.
- FABRICATED, INSPECTED, AND TESTED IAW IPC-A-640, CLASS 3.
- CABLE ASSEMBLY SHALL BE HAND COILED AND INDIVIDUALLY PACKAGED AND LABELED.

REGULATORY COMPLIANCE:  
EU RoHS DIRECTIVE (MOST RECENT RELEASED VERSION).

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UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:  
X =  $\pm 2$  [5]  
.XX =  $\pm 0.02$  [0.5]  
.XXX =  $\pm 0.005$  [0.13]  
FRACTIONS  
 $\pm 1/32$   
ANGLES  $\pm 1^\circ$

CABLE LENGTH TOLERANCES:  
 $\leq 12$  [305] =  $\pm 1$  [25] / -0  
 $> 12$  [305]  $\leq 60$  [1524] =  $\pm 2$  [51] / -0  
 $> 60$  [1524]  $\leq 120$  [3048] =  $\pm 4$  [102] / -0  
 $> 120$  [3048]  $\leq 300$  [7620] =  $\pm 6$  [152] / -0  
 $> 300$  [7620] =  $\pm 5\%$  / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY  
AND SUBJECT TO CHANGE WITHOUT NOTICE.  
UN-DIMENSIONED/NON-CRITICAL FEATURES  
MAY VARY IN SIZE AND LOCATION  
COLORS MAY VARY

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INTERPRET ALL DIMENSIONS AND  
TOLERANCES PER ASME Y14.5

SCALE  
NONE

SHEET  
1 OF 2

## DESCRIPTION

DEPLOYABLE MIL TACTICAL CABLE ASSY, MM, OM3,  
LC UPC 8X TO LC UPC 8X

| SIZE | CAGE CODE | DRAWN BY | ITEM NO.        | REV |
|------|-----------|----------|-----------------|-----|
| A    | 43321     | DZINN    | FCA-8M3LCULCUDM | B   |

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| FIBER PERFORMANCE                 |                                      |
|-----------------------------------|--------------------------------------|
| INDUSTRY STANDARD DESIGNATION     | LASER OPTIMIZED OM3<br>ISO/IEC 11801 |
| CORE/CLADDING DIAMETER (µm)       | 50/125                               |
| WAVELENGTH (nm)                   | 850/1310                             |
| GIGABYTE ETHERNET DISTANCE (M)    | 1000/600                             |
| 10-GIGABYTE ETHERNET DISTANCE (M) | 300/300                              |
| PRIMARY COATING DIAMETER (µm)     | 500                                  |
| SECONDARY BUFFER DIAMETER (µm)    | 900                                  |

| MECHANICAL AND ENVIRONMENTAL |                |
|------------------------------|----------------|
| IMPACT RESISTANCE TIA-455-25 | 1500 IMPACTS   |
| CRUSH RESISTANCE TIA-455-41  | 1800 N/cm      |
| FLEX RESISTANCE TIA-455-104  | 2000 CYCLES    |
| OPERATING TEMPERATURE        | -55°C TO +85°C |
| STORAGE TEMPERATURE          | -70°C TO +85°C |

| CABLE CHARACTERISTICS |                  |
|-----------------------|------------------|
| JACKET MATERIAL       | POLYURETHANE     |
| BUFFER MATERIAL       | HARD ELASTOMERIC |
| CABLE DIAMETER        | 6.5 mm [.26 in]  |

| INSTALLATION AND OPERATING CHARACTERISTICS |                  |                 |
|--|------------------|-----------------|
|  | INSTALLATION     | OPERATING       |
| MAX TENSILE LOAD                           | 1800 N [400 lbs] | 600 N [130 lbs] |
| MIN BEND RADIUS                            | 6.5 cm [2.6 in]  | 3.3 cm [1.3 in] |

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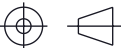
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SCALE  
NONE

SHEET  
2 OF 2

DESCRIPTION  
OPTICAL CABLE ASSEMBLY OM3