

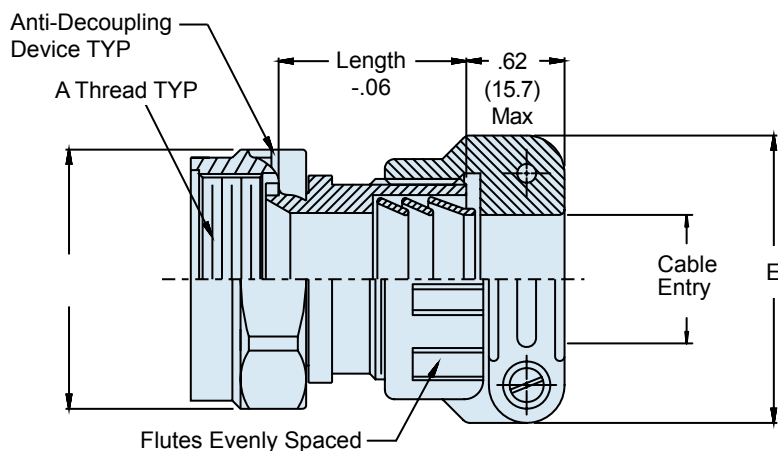
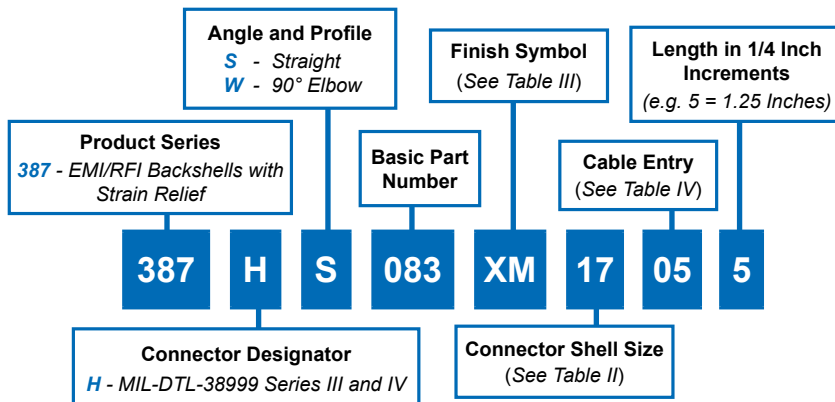
# 387-083

## Composite Multi-Shield Cone and Ring Style EMI/RFI Shield Termination Backshell with Self-Locking Rotatable Coupling and Strain Relief

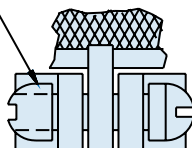
## CONNECTOR DESIGNATOR:

**H** MIL-DTL-38999 Series III and IV**SELF-LOCKING****ROTATABLE COUPLING****STANDARD PROFILE**

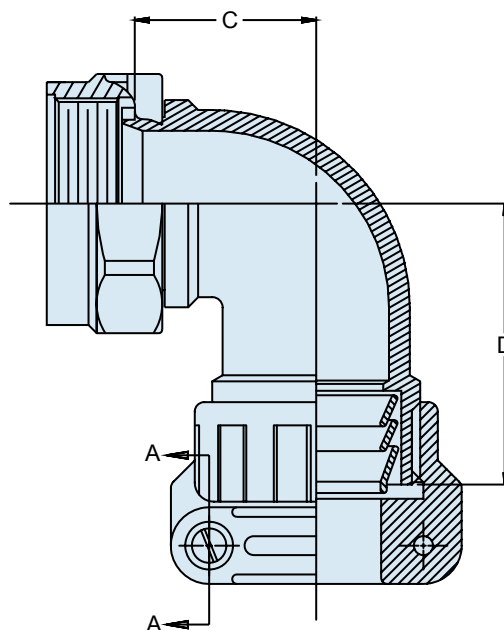
**Note: See Table I in Intro for  
Front-End Dimensional Details**



Telescoping Screw



Section A-A



## NOTES

1. See Table I in Intro for front-end dimensional details.
2. Coupling nut supplied unplated.
3. Metric dimensions (mm) are in parenthesis and are for reference only.

**387-083**  
**Composite Multi-Shield Cone and Ring Style**  
**EMI/RFI Shield Termination Backshell**  
**with Self-Locking Rotatable Coupling and Strain Relief**



**TABLE II: SHELL SIZE**

| Shell Size | Shell Size Code | A Thread ISO Metric | B Max       | C<br>±.078 (2.0) | D<br>±.078 (2.0) | Max Available Entry |
|------------|-----------------|---------------------|-------------|------------------|------------------|---------------------|
| 09         | A               | M12x 1-6H           | .94 (23.9)  | .722 (18.3)      | 1.750 (44.4)     | 04                  |
| 11         | B               | M15x 1-6H           | 1.06 (26.9) | .784 (19.9)      | 1.820 (46.2)     | 06                  |
| 13         | C               | M18x 1-6H           | 1.17 (29.7) | .816 (20.7)      | 1.860 (47.2)     | 08                  |
| 15         | D               | M22x 1-6H           | 1.29 (32.8) | .878 (22.3)      | 1.880 (47.8)     | 10                  |
| 17         | E               | M25x 1-6H           | 1.42 (36.1) | .942 (23.9)      | 1.942 (49.3)     | 12                  |
| 19         | F               | M28x 1-6H           | 1.54 (39.1) | 1.003 (25.5)     | 2.000 (50.8)     | 14                  |
| 21         | G               | M31x 1-6H           | 1.67 (42.4) | 1.037 (26.3)     | 2.062 (52.4)     | 16                  |
| 23         | H               | M34x 1-6H           | 2.01 (51.1) | 1.116 (28.3)     | 2.194 (55.7)     | 17                  |
| 25         | J               | M37x 1-6H           | 2.12 (53.8) | 1.194 (30.3)     | 2.257 (57.3)     | 20                  |

**TABLE IV: CABLE ENTRY**

| Dash Number | E Max        | Cable Entry<br>±.039 (1.0) |
|-------------|--------------|----------------------------|
| 04          | 1.125 (28.6) | .312 (7.9)                 |
| 06          | 1.250 (31.8) | .437 (11.1)                |
| 08          | 1.312 (33.3) | .500 (12.7)                |
| 10          | 1.438 (36.5) | .625 (15.9)                |
| 12          | 1.625 (41.3) | .750 (19.1)                |
| 14          | 1.688 (42.9) | .874 (22.2)                |
| 16          | 1.750 (44.5) | .937 (23.8)                |
| 17          | 1.906 (48.5) | 1.094 (27.8)               |
| 20          | 2.062 (52.4) | 1.250 (31.8)               |

**TABLE III: FINISH**

| Symbol | Finish Description                                                                  |
|--------|-------------------------------------------------------------------------------------|
| XM     | 2000 Hour Corrosion Resistant Electroless Nickel                                    |
| XMT    | 2000 Hour Corrosion Resistant Ni-PTFE, Nickel-Fluorocarbon Polymer. 1000 Hour Grey™ |
| XW     | 2000 Hour Corrosion Resistant Cadmium/ Olive Drab over Electroless Nickel           |

**BACKSHELL WEIGHT**

| Symbol "S" Straight Weight Table |             |                 | Symbol "W" 90° Weight Table |             |                 |
|----------------------------------|-------------|-----------------|-----------------------------|-------------|-----------------|
| Shell Size                       | Dash Number | Max Weight (KG) | Shell Size                  | Dash Number | Max Weight (KG) |
| 09                               | 04          | .0296           | 09                          | 04          | .0326           |
| 11                               | 06          | .0327           | 11                          | 06          | .0360           |
| 13                               | 08          | .0370           | 13                          | 08          | .0420           |
| 15                               | 10          | .0430           | 15                          | 10          | .0480           |
| 17                               | 12          | .0500           | 17                          | 12          | .0550           |
| 19                               | 12          | .0560           | 19                          | 12          | .0610           |
| 21                               | 16          | .0640           | 21                          | 16          | .0690           |
| 23                               | 16          | .0700           | 23                          | 16          | .0750           |
| 25                               | 20          | .0750           | 25                          | 20          | .0800           |