

# 380-100

## Composite Cone and Ring Style

### EMI/RFI Shield Termination Backshell

#### with Self-Locking Rotatable Coupling and Qwik Clamp

## CONNECTOR DESIGNATOR:

|          |                                                             |
|----------|-------------------------------------------------------------|
| <b>A</b> | MIL-DTL-5015, -26482 Series II, and -83723 Series I and III |
| <b>F</b> | MIL-DTL-38999 Series I, II                                  |
| <b>L</b> | MIL-DTL-38999 Series 1.5 (JN1003)                           |
| <b>H</b> | MIL-DTL-38999 Series III and IV                             |
| <b>G</b> | MIL-DTL-28840                                               |
| <b>U</b> | DG123 and DG123A                                            |

SELF-LOCKING

ROTATABLE COUPLING

STANDARD PROFILE

## Angle and Profile

S - Straight  
W - 90° Elbow  
T - 45° Elbow

## Finish Symbol

(See Table III)

## Product Series

380 - EMI/RFI Non Environmental  
Backshells with Strain Relief

Basic Part  
NumberCable Entry  
(See Table IV)

380

H

S

100

XM

19

28

## Connector Designator

A, F, L, H, G and U

## Connector Shell Size

(See Table II)

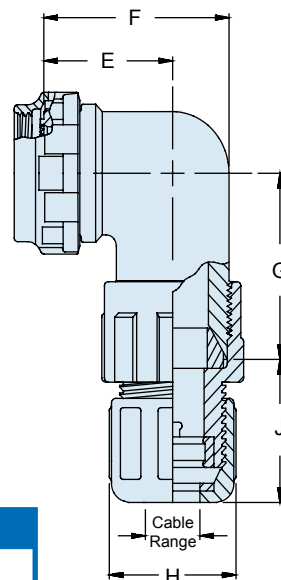
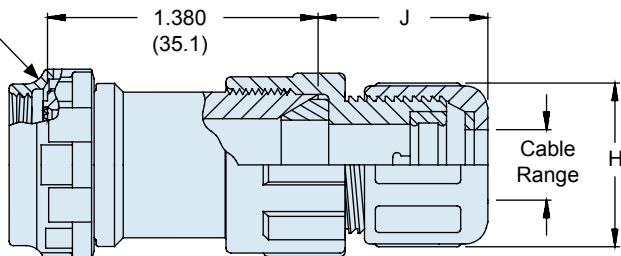
Anti-Decoupling  
Device

TABLE II: CONNECTOR SHELL SIZE

| Shell Size For<br>Connector Designator |     |    |    |    | E     |        | F     |        | G     |        | Max Entry<br>Dash No.** |
|----------------------------------------|-----|----|----|----|-------|--------|-------|--------|-------|--------|-------------------------|
| A                                      | F/L | H  | G  | U  | ± .06 | (1.5)  | ± .09 | (2.3)  | ± .09 | (2.3)  |                         |
| 08                                     | 08  | 09 | —  | —  | .69   | (17.5) | .88   | (22.4) | 1.06  | (26.9) | 08                      |
| 10                                     | 10  | 11 | —  | 08 | .75   | (19.1) | 1.00  | (25.4) | 1.13  | (28.7) | 12                      |
| 12                                     | 12  | 13 | 11 | 10 | .81   | (20.6) | 1.13  | (28.7) | 1.19  | (30.2) | 16                      |
| 14                                     | 14  | 15 | 13 | 12 | .88   | (22.4) | 1.31  | (33.3) | 1.25  | (31.8) | 20                      |
| 16                                     | 16  | 17 | 15 | 14 | .94   | (23.9) | 1.38  | (35.1) | 1.31  | (33.3) | 24                      |
| 18                                     | 18  | 19 | 17 | 16 | .97   | (24.6) | 1.44  | (36.6) | 1.34  | (34.0) | 28                      |
| 20                                     | 20  | 21 | 19 | 18 | 1.06  | (26.9) | 1.63  | (41.4) | 1.44  | (36.6) | 32                      |
| 22                                     | 22  | 23 | —  | 20 | 1.13  | (28.7) | 1.75  | (44.5) | 1.50  | (38.1) | 36                      |
| 24                                     | 24  | 25 | 23 | 22 | 1.19  | (30.2) | 1.88  | (47.8) | 1.56  | (39.6) | 40                      |
| 28                                     | —   | —  | 25 | 24 | 1.34  | (34.0) | 2.13  | (54.1) | 1.66  | (42.2) | 44                      |

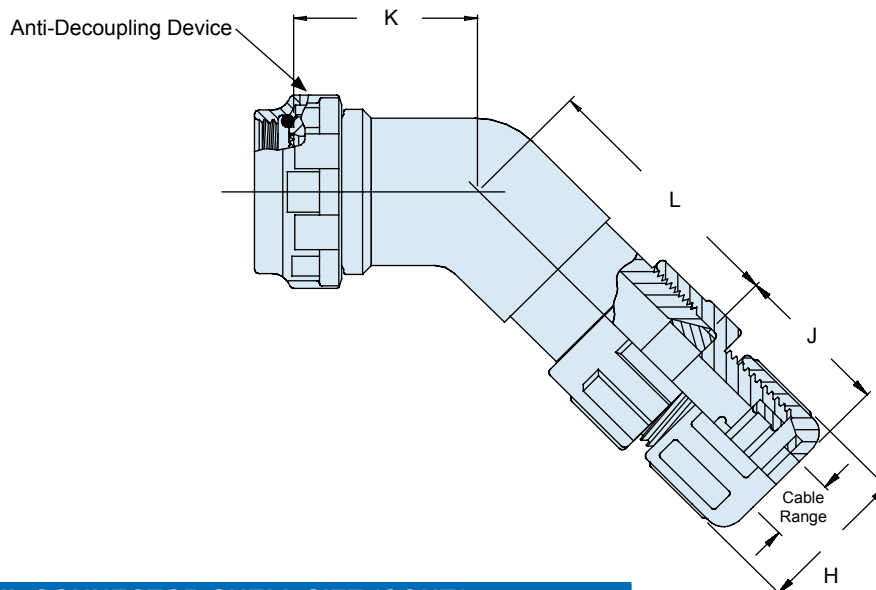
\*\*Consult factory for additional entry sizes available.  
See introduction for additional connector front-end details.

US PATENT 5211576

**380-100**  
**Composite Cone and Ring Style**  
**EMI/RFI Shield Termination Backshell**  
**with Self-Locking Rotatable Coupling and Qwik Clamp**



Composite  
Backshells



A

**TABLE II: CONNECTOR SHELL SIZE (CONT.)**

| Shell Size For<br>Connector Designator |    | K     |        | L     |        | Max Entry<br>Dash No. * |
|----------------------------------------|----|-------|--------|-------|--------|-------------------------|
| A & F/L                                | H  | ± .06 | (1.5)  | ± .06 | (1.5)  |                         |
| 08                                     | 09 | .72   | (18.3) | .88   | (22.4) | 08                      |
| 10                                     | 11 | .75   | (19.1) | .94   | (23.9) | 12                      |
| 12                                     | 13 | .75   | (19.1) | 1.00  | (25.4) | 16                      |
| 14                                     | 15 | .76   | (19.3) | 1.03  | (26.2) | 20                      |
| 16                                     | 17 | .78   | (19.8) | 1.06  | (26.9) | 24                      |
| 18                                     | 19 | .79   | (20.1) | 1.07  | (27.2) | 28                      |
| 20                                     | 21 | .82   | (20.8) | 1.09  | (27.7) | 32                      |
| 22                                     | 23 | .86   | (21.8) | 1.14  | (29.0) | 36                      |
| 24                                     | 25 | .92   | (23.4) | 1.17  | (29.7) | 40                      |

\* Consult factory for additional entry sizes available.

**NOTES**

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

**TABLE IV: CABLE ENTRY**

| Entry<br>Code | H<br>(Max)  | J<br>(Max)  | Cable Range |             |         |         |
|---------------|-------------|-------------|-------------|-------------|---------|---------|
|               |             |             | Minimum     | Maximum     | Minimum | Maximum |
| 08            | .72 (18.3)  | .87 (22.1)  | .10 (2.5)   | .25 (6.4)   |         |         |
| 12            | .91 (23.1)  | 1.01 (25.7) | .20 (5.1)   | .38 (9.7)   |         |         |
| 16            | 1.09 (27.7) | 1.11 (28.2) | .33 (8.4)   | .50 (12.7)  |         |         |
| 20            | 1.22 (31.0) | 1.11 (28.2) | .45 (11.4)  | .63 (15.9)  |         |         |
| 24            | 1.34 (34.0) | 1.11 (28.2) | .52 (13.2)  | .75 (19.1)  |         |         |
| 28            | 1.53 (38.9) | 1.26 (32.0) | .64 (16.3)  | .88 (22.2)  |         |         |
| 32            | 1.72 (43.7) | 1.41 (35.8) | .77 (19.6)  | 1.00 (25.4) |         |         |
| 36            | 1.85 (47.0) | 1.41 (35.8) | .86 (21.8)  | 1.13 (28.6) |         |         |
| 40            | 1.97 (50.0) | 1.41 (35.8) | .98 (24.9)  | 1.25 (31.8) |         |         |
| 44            | 2.09 (53.1) | 1.53 (38.9) | 1.13 (28.6) | 1.38 (34.9) |         |         |

**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            |