

# 370-016

## Composite Cable-Sealing Environmental Backshell with Self-Locking Rotatable Coupling and Strain-Relief Clamp or Nut

## 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

**Product Series**  
370 - Environmental  
Strain Relief

**Angle and Profile**  
S - Straight  
W - 90° Split Clamp

**Coupling Nut  
Finish Symbol**  
(See Table III)

**Dash Number**  
(Table IV)

370

H

S

016

XO

19

20

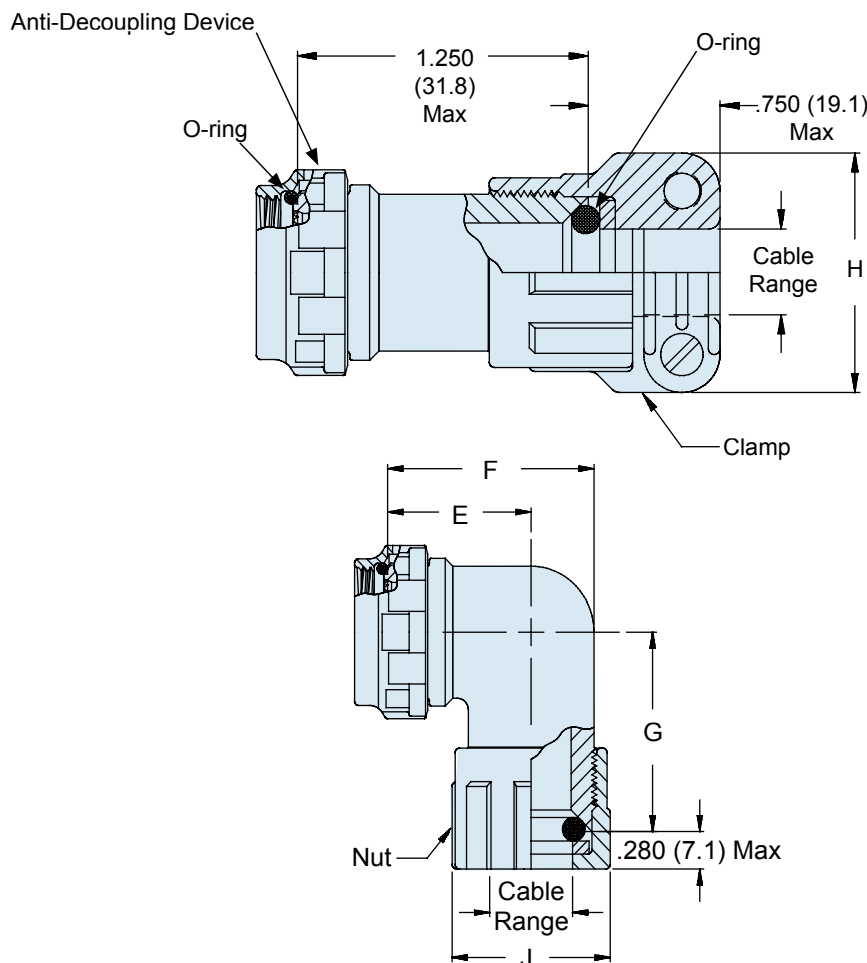
C

**Connector  
Designator**  
A, F, L, H, G and U

**Basic Part  
Number**

**Connector  
Shell Size**  
(See Table II)

**Strain Relief Style**  
C - Clamp  
N - Nut



**370-016**  
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**with Self-Locking Rotatable Coupling**  
**and Strain-Relief Clamp or Nut**



**TABLE II: CONNECTOR SHELL SIZE ORDER NUMBER**

| Shell Size For<br>Connector Designator* |     |    |    |    |      |        |      |        |      |        |  | 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) |  | 10                      |
| 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) |  | 14                      |
| 14                                      | 14  | 15 | 13 | 12 | .88  | (22.4) | 1.31 | (33.3) | 1.25 | (31.8) |  | 16                      |
| 16                                      | 16  | 17 | 15 | 14 | .94  | (23.9) | 1.38 | (35.1) | 1.31 | (33.3) |  | 20                      |
| 18                                      | 18  | 19 | 17 | 16 | .97  | (24.6) | 1.44 | (36.6) | 1.34 | (34.0) |  | 20                      |
| 20                                      | 20  | 21 | 19 | 18 | 1.06 | (26.9) | 1.63 | (41.4) | 1.44 | (36.6) |  | 22                      |
| 22                                      | 22  | 23 | —  | 20 | 1.13 | (28.7) | 1.75 | (44.5) | 1.50 | (38.1) |  | 24                      |
| 24                                      | 24  | 25 | 23 | 22 | 1.19 | (30.2) | 1.88 | (47.8) | 1.56 | (39.6) |  | 28                      |
| 28                                      | —   | —  | 25 | 24 | 1.34 | (34.0) | 2.13 | (54.1) | 1.66 | (42.2) |  | 32                      |

\*\*Consult factory for additional entry sizes available.

**TABLE IV: CABLE ENTRY**

| Dash<br>No. | Clamp<br>Saddle Closed |        | H    |        | J    |        | Cable Range * |        |         |        |
|-------------|------------------------|--------|------|--------|------|--------|---------------|--------|---------|--------|
|             |                        |        | ±.06 | (1.5)  | ±.06 | (1.5)  | Minimum       |        | Maximum |        |
| 10          | .16                    | (4.1)  | .94  | (23.9) | .80  | (20.3) | .13           | (3.3)  | .25     | (6.4)  |
| 12          | .29                    | (5.1)  | 1.17 | (29.7) | .93  | (23.6) | .25           | (6.4)  | .38     | (9.7)  |
| 14          | .40                    | (10.2) | 1.28 | (32.5) | 1.06 | (26.9) | .31           | (7.9)  | .44     | (11.2) |
| 16          | .52                    | (13.2) | 1.41 | (35.8) | 1.22 | (31.0) | .50           | (12.7) | .63     | (15.9) |
| 18          | .58                    | (14.7) | 1.50 | (38.1) | 1.24 | (31.5) | .56           | (14.2) | .69     | (17.5) |
| 20          | .64                    | (16.0) | 1.56 | (39.6) | 1.37 | (34.8) | .63           | (16.0) | .75     | (19.1) |
| 22          | .72                    | (18.3) | 1.69 | (42.9) | 1.49 | (37.8) | .75           | (19.1) | .88     | (22.2) |
| 24          | .79                    | (20.1) | 1.81 | (46.0) | 1.62 | (41.1) | .88           | (22.4) | 1.00    | (25.4) |
| 28          | .89                    | (22.0) | 1.91 | (48.5) | 1.68 | (42.7) | 1.00          | (25.4) | 1.13    | (28.6) |
| 32          | .96                    | (24.0) | 2.02 | (51.3) | 1.82 | (46.2) | 1.13          | (28.6) | 1.25    | (31.8) |

\* Cable range equals diameter of cable outer jacket.

**NOTES**

1. Coupling nut supplied unplated.
2. See Table I in Intro for front-end dimensional details.

**TABLE III: FINISH**

| Symbol | Finish Description                                                                  |
|--------|-------------------------------------------------------------------------------------|
| XB     | No Plating - Black Color (Non-Conductive Finish)                                    |
| XM     | 2000 Hour Corrosion Resistant Electroless Nickel                                    |
| XMT    | 2000 Hour Corrosion Resistant Ni-PTFE, Nickel-Fluorocarbon Polymer. 1000 Hour Grey™ |
| XO     | No Plating - Brown Color (Non-Conductive Finish)                                    |
| XW     | 2000 Hour Corrosion Resistant Cadmium/Olive Drab over Electroless Nickel            |