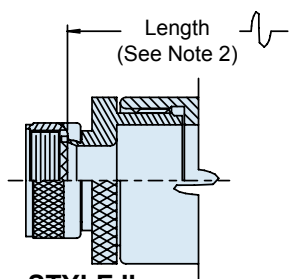
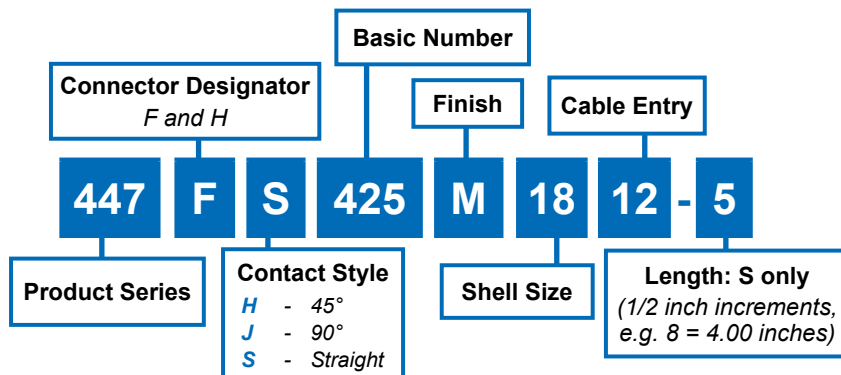


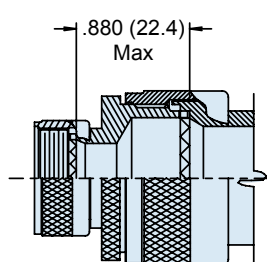
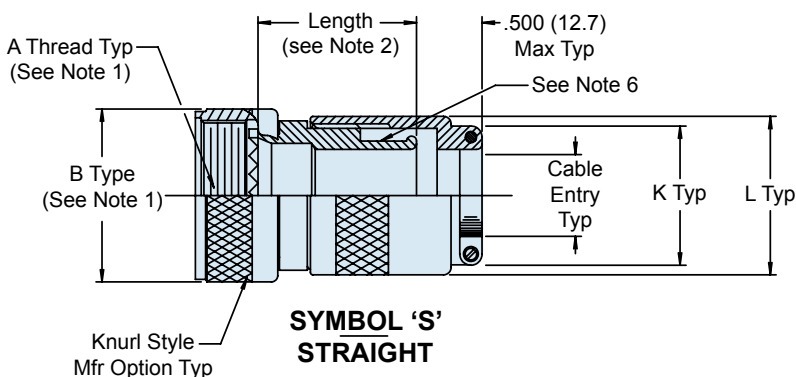
## Connector Designators:

MIL-DTL-38999 Series I, II (F)  
MIL-DTL-38999 Series III and IV (H)

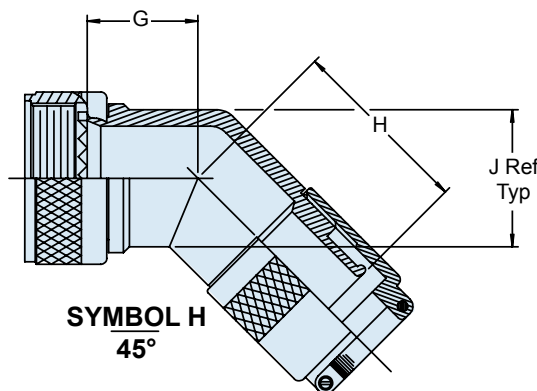
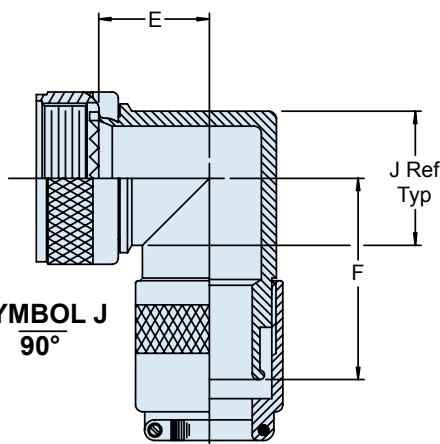
## F-H ROTATABLE COUPLING



**STYLE II**  
(See Note 3)  
**STRAIGHT**



**SYMBOL J**  
**90°**



## APPLICATION NOTES

- Standard minimum length for Style I is 1 inch (25.4), Style II is 1.5 inches (38.1). Consult factory about shorter lengths (Note: Applies to Symbol S Straight only).
- When cable diameter exceeds "Max Dash No" in Table I, Style II will be supplied.
- For effective grounding, connector with conductive finish should be used.
- Glenair Series 600 Backshell Assembly tools are recommended for assembly and installation.
- For shield termination see Glenair Drawings 600-050 and 600-052.
- Material/Finish:  
Adapters, Elbows, Coupling Nuts, Ferrule, Clamp - Al Alloy/See Table I  
Hardware - Cres/Passivate
- Metric dimensions (mm) are indicated in parentheses.

# 447-425

## EMI/RFI Non-Environmental Band-in-a-Can Backshell With Cable Clamp Strain-Relief Rotatable Coupling - Standard Profile



| TABLE III: BACKSHELL DIMENSIONS (Continued Below) |    |               |               |               |               |               |               |               |
|---------------------------------------------------|----|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Shell Size                                        |    |               |               |               |               |               |               |               |
| A,F,L,S                                           | H  | E Max.        | F Max.        | G Max.        | H Max.        | M Max.        | N Max.        | P Max.        |
| 08                                                | 09 | .639 (16.23)  | 1.380 (35.05) | .750 (19.05)  | 1.500 (38.10) | .817 (20.75)  | 1.057 (26.85) | 1.125 (28.58) |
| 10                                                | 11 | .664 (16.87)  | 1.410 (35.81) | .810 (20.57)  | 1.550 (39.37) | .861 (21.87)  | 1.111 (28.22) | 1.250 (31.75) |
| 12                                                | 13 | .688 (17.48)  | 1.430 (36.32) | .870 (22.10)  | 1.610 (40.89) | .911 (23.14)  | 1.161 (29.49) | 1.375 (34.93) |
| 14                                                | 15 | .705 (17.91)  | 1.460 (37.08) | .920 (23.37)  | 1.680 (42.67) | .965 (24.51)  | 1.215 (30.86) | 1.500 (38.10) |
| 16                                                | 17 | .732 (18.59)  | 1.480 (37.59) | .980 (24.89)  | 1.740 (44.20) | 1.264 (32.11) | 1.625 (41.28) | 1.875 (47.63) |
| 18                                                | 19 | .748 (19.00)  | 1.490 (37.85) | 1.020 (25.91) | 1.760 (44.70) | 1.064 (27.03) | 1.314 (33.38) | 1.750 (44.45) |
| 20                                                | 21 | .773 (19.63)  | 1.510 (38.35) | 1.080 (27.43) | 1.820 (46.23) | 1.118 (28.40) | 1.368 (34.75) | 1.875 (47.63) |
| 22                                                | 23 | .800 (20.32)  | 1.550 (39.37) | 1.140 (28.96) | 1.900 (48.26) | 1.172 (29.77) | 1.422 (36.12) | 2.000 (50.80) |
| 24                                                | 25 | .823 (20.90)  | 1.580 (40.13) | 1.200 (30.48) | 1.970 (50.04) | 1.221 (31.01) | 1.471 (37.36) | 2.125 (53.98) |
| 28                                                |    | .930 (23.62)  | 1.610 (40.89) | 1.380 (35.05) | 2.000 (40.80) | 1.271 (32.28) | 1.522 (38.66) | 2.250 (57.15) |
| 32                                                |    | .980 (24.89)  | 1.610 (40.89) | 1.500 (38.10) | 2.000 (40.80) | 1.375 (34.93) | 1.626 (41.30) | 2.500 (63.50) |
| 36                                                |    | 1.040 (26.42) | 1.610 (40.89) | 1.620 (41.15) | 2.040 (51.82) | TBD           | TBD           | TBD           |
| 40                                                |    | 1.100 (27.94) | 1.610 (40.89) | 1.740 (44.20) | 2.150 (54.61) | TBD           | TBD           | TBD           |
| 44                                                |    | 1.150 (29.21) | 1.610 (40.89) | 1.870 (47.50) | 2.280 (57.91) | TBD           | TBD           | TBD           |
| 48                                                |    | 1.200 (30.48) | 1.640 (41.66) | 1.990 (50.55) | 2.400 (60.96) | TBD           | TBD           | TBD           |
| 61                                                |    | .880 (22.35)  | 1.580 (40.13) | 1.260 (32.00) | 1.970 (50.04) | 1.221 (31.01) | 1.417 (35.99) | 2.125 (53.98) |

| TABLE III: BACKSHELL DIMENSIONS (Continued From Above) |    |               |               |               |               |               |               |               |              |                  |
|--------------------------------------------------------|----|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|------------------|
| Shell Size                                             |    |               |               |               |               |               |               |               |              | Function C       |
| A,F,L,S                                                | H  | R Max.        | S Max.        | T Max.        | U Max.        | V Max.        | W Max.        | Y Max.        | Z Ref.       | Max. Wire Bundle |
| 08                                                     | 09 | 1.375 (34.93) | .520 (13.21)  | 1.840 (46.74) | .680 (17.27)  | 1.780 (45.21) | .681 (17.30)  | 2.120 (53.85) | .340 (8.64)  | .250 (6.35)      |
| 10                                                     | 11 | 1.500 (38.10) | .520 (13.21)  | 1.900 (48.26) | .750 (19.05)  | 1.840 (46.74) | .731 (18.57)  | 2.280 (57.91) | .270 (6.86)  | .375 (9.53)      |
| 12                                                     | 13 | 1.625 (41.28) | .560 (14.22)  | 1.970 (50.04) | .810 (20.57)  | 1.910 (48.51) | .731 (18.57)  | 2.280 (57.91) | .270 (6.86)  | .375 (9.53)      |
| 14                                                     | 15 | 1.750 (44.45) | .620 (15.75)  | 2.000 (50.80) | .870 (22.10)  | 1.940 (49.28) | .831 (21.11)  | 2.350 (59.69) | .280 (7.11)  | .500 (12.70)     |
| 16                                                     | 17 | .680 (17.27)  | 2.100 (53.34) | .930 (23.62)  | 2.040 (51.82) | 2.040 (51.82) | .981 (24.92)  | 2.400 (60.96) | .420 (10.67) | .625 (15.88)     |
| 18                                                     | 19 | 2.000 (40.80) | .750 (19.05)  | 2.160 (54.86) | 1.000 (25.40) | 2.100 (53.34) | 1.181 (30.00) | 2.430 (61.72) | .640 (16.26) | .625 (15.88)     |
| 20                                                     | 21 | 2.125 (53.98) | .820 (20.83)  | 2.220 (56.39) | 1.060 (26.92) | 2.160 (54.86) | 1.181 (30.00) | 2.430 (61.72) | .640 (16.26) | .625 (15.88)     |
| 22                                                     | 23 | 2.250 (57.15) | .880 (22.35)  | 2.280 (57.91) | 1.120 (28.45) | 2.220 (56.39) | 1.181 (30.00) | 2.580 (65.53) | .540 (13.72) | .750 (19.05)     |
| 24                                                     | 25 | 2.375 (60.33) | .940 (23.88)  | 2.340 (59.44) | 1.180 (29.97) | 2.280 (57.91) | 1.181 (30.00) | 2.580 (65.53) | .540 (13.72) | .750 (19.05)     |
| 28                                                     |    | 2.500 (63.50) | 1.090 (27.69) | 2.460 (62.48) | 1.340 (34.04) | 2.450 (62.23) | TBD           | TBD           | TBD          | TBD              |
| 32                                                     |    | 2.750 (69.85) | TBD           | TBD           | TBD           | TBD           | TBD           | TBD           | TBD          | TBD              |
| 36                                                     |    | TBD           | TBD           | TBD           | 1.590 (40.39) | 2.680 (68.07) | TBD           | TBD           | TBD          | TBD              |
| 40                                                     |    | TBD           | TBD           | TBD           | 1.720 (43.69) | 2.890 (73.41) | TBD           | TBD           | TBD          | TBD              |
| 44                                                     |    | TBD           | TBD           | TBD           | TBD           | TBD           | TBD           | TBD           | TBD          | TBD              |
| 48                                                     |    | TBD           | TBD           | TBD           | TBD           | TBD           | TBD           | TBD           | TBD          | TBD              |
| 61                                                     |    | 2.375 (60.33) | .940 (23.88)  | TBD           | 1.180 (29.97) | 2.290 (58.17) | 1.181 (30.00) | 2.580 (65.53) | .540 (13.72) | .750 (19.05)     |

| TABLE IV: CABLE ENTRY |              |              |              |              |
|-----------------------|--------------|--------------|--------------|--------------|
| Dash No.              | K Max.       | L Max.       | Cable Entry  |              |
|                       |              |              | Min.         | Max.         |
| 10                    | .220 (5.6)   | 1.000 (25.4) | .130 (3.3)   | .250 (6.4)   |
| 12                    | .310 (7.9)   | 1.250 (31.8) | .250 (6.4)   | .380 (9.7)   |
| 14                    | .440 (11.2)  | 1.340 (34.0) | .310 (7.9)   | .440 (11.2)  |
| 16                    | .560 (14.2)  | 1.470 (37.3) | .375 (9.5)   | .630 (16.0)  |
| 18                    | .630 (16.0)  | 1.560 (39.6) | .560 (14.2)  | .960 (17.5)  |
| 20                    | .750 (19.1)  | 1.620 (41.1) | .630 (16.0)  | .750 (19.1)  |
| 22                    | .880 (22.4)  | 1.750 (44.5) | .750 (19.1)  | .880 (22.4)  |
| 24                    | 1.000 (25.4) | 1.870 (47.5) | .880 (22.4)  | 1.000 (25.4) |
| 28                    | 1.060 (26.9) | 1.970 (50.0) | 1.000 (25.4) | 1.130 (28.7) |
| 32                    | 1.190 (30.2) | 2.090 (53.1) | 1.130 (28.7) | 1.250 (31.8) |

| TABLE II: FINISHES |                                                                     |
|--------------------|---------------------------------------------------------------------|
| Symbol             | Finish                                                              |
| B                  | Cadmium Plate, Olive Drab                                           |
| C                  | Anodize, Black                                                      |
| GB                 | Black Anodize, Hard Coat                                            |
| M                  | Electroless Nickel                                                  |
| N                  | Cad Plate, Olive Drab over Electroless Nickel                       |
| NF                 | Cadmium Plate, Olive Drab over Electroless Nickel                   |
| MT                 | Ni-PTFE 1000 Hour Grey <sup>TM</sup><br>Nickel Fluorocarbon Polymer |
| Z1                 | Stainless Steel Passivate                                           |
| ZL                 | CRES, Electroless Nickel                                            |
| ZN                 | Zinc-Nickel                                                         |