

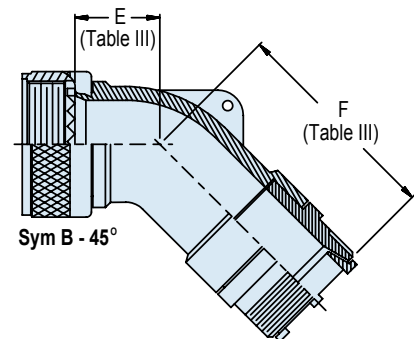
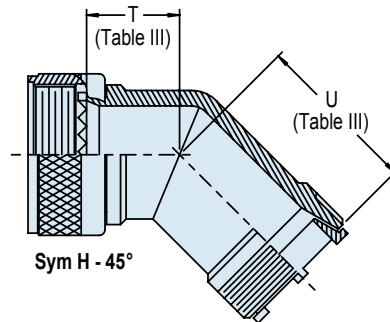
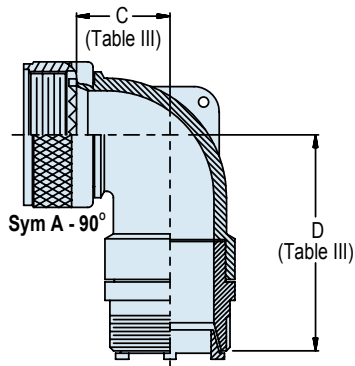
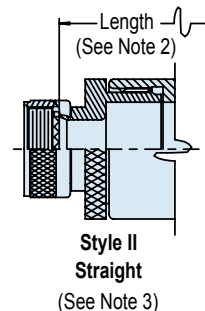
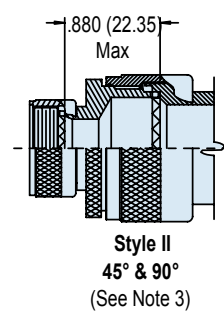
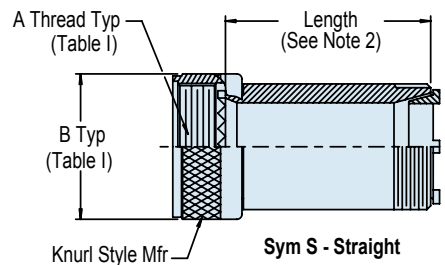
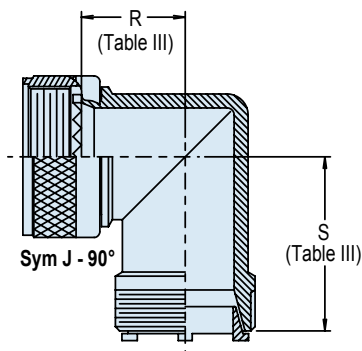
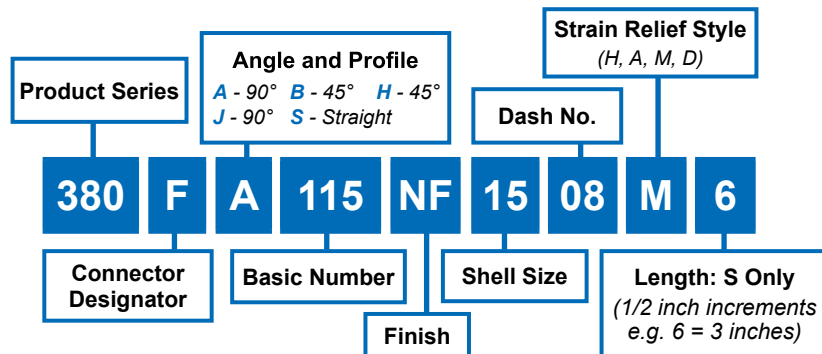
### CONNECTOR DESIGNATORS

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

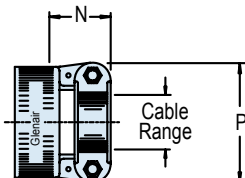
## A-F-H-L-S

### ROTATABLE COUPLING

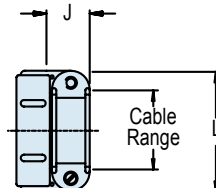
### TYPE B INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION



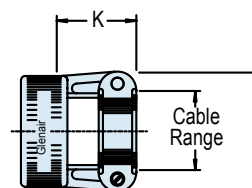
**STYLE H**  
Heavy Duty  
(Table VI)



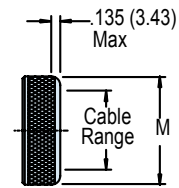
**STYLE A**  
Medium Duty  
(Table V)



**STYLE M**  
Medium Duty  
(Table V)



**STYLE D**  
Medium Duty  
(Table V)



**380-115**  
**EMI/RFI Non-Environmental Backshell**  
**with Strain Relief**  
**Type B - Rotatable Coupling - Low Profile**



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**TABLE III: ELBOW DIMENSIONS**

| Shell Size |         |    | C            | D            | E            | F            | R             | S             | T             | U             |
|------------|---------|----|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|
| A          | F, L, S | H  | Max          | Max          | Max          | Max          | Max           | Max           | Max           | Max           |
| 08         | 08      | 09 | .500 (12.7)  | 1.684 (42.8) | .457 (11.6)  | 1.674 (42.5) | .910 (23.11)  | 1.910 (48.77) | .780 (19.81)  | 1.780 (45.21) |
| 10         | 10      | 11 | .595 (15.1)  | 1.804 (45.8) | .520 (13.2)  | 1.734 (44.0) | .970 (24.64)  | 1.970 (50.04) | .810 (20.57)  | 1.810 (45.97) |
| 12         | 12      | 13 | .610 (15.5)  | 1.824 (46.3) | .582 (14.8)  | 1.794 (45.6) | 1.030 (26.16) | 2.030 (50.56) | .830 (21.08)  | 1.830 (46.48) |
| 14         | 14      | 15 | .700 (17.8)  | 1.894 (48.1) | .645 (16.4)  | 1.884 (47.9) | 1.090 (27.68) | 2.090 (53.09) | .850 (21.59)  | 1.850 (46.99) |
| 16         | 16      | 17 | .885 (22.5)  | 1.984 (50.4) | .738 (18.7)  | 1.994 (50.6) | 1.150 (29.21) | 2.150 (54.61) | .880 (22.35)  | 1.880 (47.75) |
| 18         | 18      | 19 | .975 (24.8)  | 2.154 (54.7) | .926 (23.5)  | 2.184 (55.5) | 1.200 (30.48) | 2.200 (55.88) | .900 (22.86)  | 1.900 (48.26) |
| 20         | 20      | 21 | .975 (24.8)  | 2.154 (54.7) | .926 (23.5)  | 2.184 (55.5) | 1.270 (32.26) | 2.270 (57.66) | .930 (23.62)  | 1.930 (49.02) |
| 22         | 22      | 23 | 1.125 (28.6) | 2.264 (57.5) | 1.020 (25.9) | 2.334 (59.3) | 1.330 (33.78) | 2.330 (59.18) | .950 (24.13)  | 1.950 (49.53) |
| 24         | 24      | 25 | 1.125 (28.6) | 2.264 (57.5) | 1.020 (25.9) | 2.334 (59.3) | 1.390 (35.31) | 2.390 (60.71) | .980 (24.13)  | 1.980 (50.29) |
| 28         |         |    | 1.225 (31.1) | 2.434 (61.8) | 1.145 (29.1) | 2.384 (60.6) | 1.460 (37.08) | 2.460 (62.48) | 1.150 (29.21) | 2.150 (54.61) |
| 32         |         |    | 1.575 (40.0) | 2.684 (68.2) | 1.207 (30.7) | 2.484 (63.1) | 1.590 (40.38) | 2.590 (65.79) | 1.210 (30.73) | 2.210 (56.13) |
| 36         |         |    | 1.775 (45.1) | 2.684 (68.2) | 1.238 (31.4) | 2.574 (65.4) | 1.690 (42.93) | 2.690 (68.33) | 1.240 (31.50) | 2.240 (56.90) |
| 40         |         |    | N/A          | N/A          | N/A          | N/A          | 1.900 (48.26) | 2.200 (55.88) | 1.250 (31.75) | 1.590 (40.38) |
| 44         |         |    | N/A          | N/A          | N/A          | N/A          | 2.030 (51.56) | 2.360 (59.94) | 1.300 (33.02) | 1.640 (41.65) |
| 48         |         |    | N/A          | N/A          | N/A          | N/A          | 2.180 (53.37) | 2.530 (64.26) | 1.370 (34.79) | 1.720 (43.68) |
| 61         |         |    | N/A          | N/A          | N/A          | N/A          | 1.290 (32.76) | 1.490 (37.85) | .880 (22.35)  | 1.100 (27.94) |

**TABLE IV: CABLE CLAMP CABLE RANGE**

| Dash No. | N Max        | P Max        | Cable Range  |              |
|----------|--------------|--------------|--------------|--------------|
|          |              |              | Min          | Max          |
| 04       | .780 (19.8)  | .957 (24.3)  | .125 (3.2)   | .312 (7.9)   |
| 06       | .780 (19.8)  | 1.145 (29.1) | .250 (6.4)   | .437 (11.1)  |
| 08       | .780 (19.8)  | 1.332 (33.8) | .312 (7.9)   | .562 (14.3)  |
| 10       | .780 (19.8)  | 1.332 (33.8) | .350 (8.9)   | .625 (15.9)  |
| 12       | .811 (20.6)  | 1.551 (39.4) | .500 (12.7)  | .750 (19.1)  |
| 16       | .905 (23.0)  | 1.770 (45.0) | .625 (15.9)  | .937 (23.8)  |
| 20       | 1.092 (27.7) | 2.113 (53.7) | .875 (22.2)  | 1.250 (31.8) |
| 24       | 1.124 (28.5) | 2.363 (60.0) | 1.000 (25.4) | 1.375 (34.9) |
| 28       | 1.399 (35.5) | 2.770 (70.4) | 1.250 (31.8) | 1.625 (41.3) |
| 32       | 1.399 (35.5) | 3.020 (76.7) | 1.437 (36.5) | 1.875 (47.6) |

**TABLE V: CABLE CLAMP CABLE RANGE**

| Dash No. | J Max        | K Max        | L Max        | M Max        | Cable Range  |              |
|----------|--------------|--------------|--------------|--------------|--------------|--------------|
|          |              |              |              |              | Min**        | Max          |
| 03*      | .437 (11.1)  | .760 (19.3)  | .843 (21.4)  | .630 (16.0)  | .156 (4.0)   | .250 (6.4)   |
| 04*      | .437 (11.1)  | .760 (19.3)  | .906 (23.0)  | .755 (19.2)  | .188 (4.8)   | .312 (7.9)   |
| 06*      | .500 (12.7)  | .760 (19.3)  | 1.093 (27.8) | .942 (23.9)  | .281 (7.1)   | .438 (11.1)  |
| 08       | .563 (14.3)  | .760 (19.3)  | 1.187 (30.1) | 1.067 (27.1) | .344 (8.7)   | .562 (14.3)  |
| 10       | .563 (14.3)  | .760 (19.3)  | 1.281 (32.5) | 1.192 (30.3) | .375 (9.5)   | .625 (15.9)  |
| 12       | .563 (14.3)  | .760 (19.3)  | 1.500 (38.1) | 1.380 (35.1) | .438 (11.1)  | .750 (19.1)  |
| 16       | .656 (16.7)  | 1.073 (27.3) | 1.719 (43.7) | 1.535 (39.0) | .562 (14.3)  | .938 (23.8)  |
| 20       | .656 (16.7)  | 1.323 (33.6) | 2.062 (52.4) | 1.848 (46.9) | .750 (19.1)  | 1.250 (31.8) |
| 24       | .656 (16.7)  | 1.323 (33.6) | 2.312 (58.7) | 2.255 (57.3) | .781 (19.8)  | 1.375 (34.9) |
| 28       | 1.188 (30.2) | 1.572 (39.9) | 2.719 (69.1) | 2.505 (63.6) | .969 (24.6)  | 1.625 (41.3) |
| 32*      | 1.187 (30.1) | 1.572 (39.9) | 2.969 (75.4) | 2.755 (70.0) | 1.125 (28.6) | 1.875 (47.6) |
| 40*      | 1.125 (28.6) | 1.572 (39.9) | 3.531 (89.7) | 3.255 (82.7) | 1.469 (37.3) | 2.375 (60.3) |

\* Not available in Style M clamp.

\*\* Not Applicable Style D

**TABLE II: FINISHES**

| Sym  | Finish                                                 |
|------|--------------------------------------------------------|
| B    | Cadmium Plate, Olive Drab                              |
| C*   | Anodize, Black                                         |
| G*   | Hard Coat, Anodic                                      |
| J    | Gold Iridite over Cadmium Plate over Nickel            |
| LF   | Cadmium Plate, Bright over Electroless Nickel          |
| M    | Electroless Nickel                                     |
| N    | Cadmium Plate, Olive Drab over Nickel                  |
| NC   | Zinc Cobalt, Dark Olive Drab                           |
| NF   | Cad/O.D. over Electroless Nickel (1000 Hr. Salt Spray) |
| T    | Cadmium Plate, Bright Dip over Nickel                  |
| U**  | Cadmium Plate, Black                                   |
| UC   | Zinc Cobalt, Black                                     |
| Z1** | Passivate                                              |
| ZN   | Zinc Nickel, Olive Drab                                |

**APPLICATION NOTES**

- Assembly identified with manufacturer's name and part number, space permitting.
- Standard minimum length for Style I is 1.500 inches, Style II standard length is 2.000 inches. For shorter lengths consult factory. Applies to Symbol S only.
- When cable range exceeds Max Entry shown in Table IV, Style II will be supplied. Note: C, D, E, F, R, S, T and U dimensions do not apply to Style II.
- Metric dimensions are in parentheses.
- For effective grounding, connector with conductive finish should be used.
- Glenair Series 600 Backshell Assembly Tools are recommended for assembly and installation.
- Material/Finish:  
Elbow, adapter, coupling nut, ferrules and clamp - Aluminum alloy or SST/Table II.  
Hardware - CRES/Passivate
- Angular functions A and B are currently not available in shell sizes 40, 44 and 61. Consult factory for suitable alternatives.

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