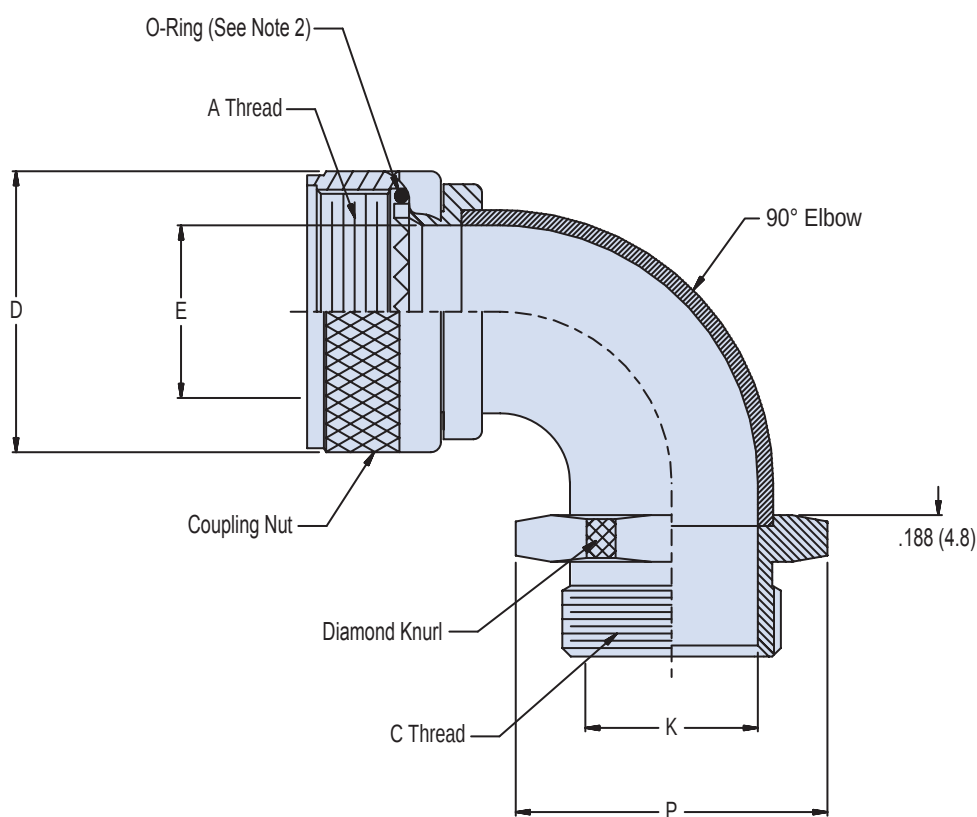
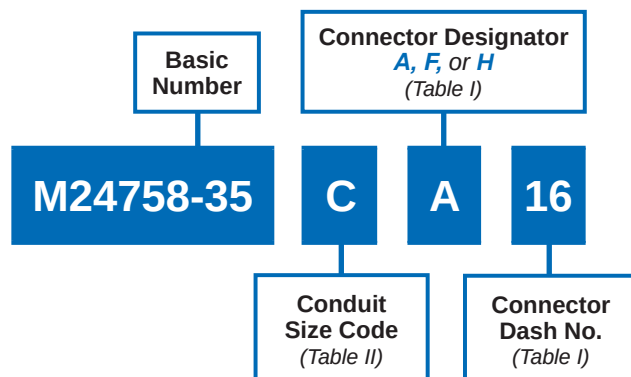


# MIL-PRF-24758-35

## 90° Elbow for Connectors Listed in Table I

A



### APPLICATION NOTES

1. Assembly identified with manufacturer's code identification number (Glenair, part number and classification code 490).
2. O-Ring not supplied with connector designator A.
3. See Glenair Circular Connector Accessories catalog for recommended torque values, Group 2.
4. Material / Finish:  
Elbow, coupling nut - 316 SST/Electroless nickel, matte finish.  
O-Ring - Silicone rubber/NA
5. Metric dimensions (mm) are indicated in parentheses.

# MIL-PRF-24758-35

## 90° Elbow for Connectors Listed in Table I



MIL-PRF  
24758A

A

**TABLE I: Dimensions for CONNECTOR DESIGNATOR A (See Note 2)**

| Connector Dash No. | NAS 1599 and MIL-DTL-83723 Series I and III | MIL-DTL-5015 (MS3400 Series) | AS81703 (Navy) Series III | MIL-DTL-26482 SeriesII | A Thread Class - 2B | D Dia Max    | E Dia Ref    |
|--------------------|---------------------------------------------|------------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
| 03                 | —                                           | —                            | 03                        | —                      | .562-24 UNEF        | .669 (17.0)  | .270 (6.9)   |
| 08                 | 08                                          | 8S                           | —                         | 08                     | .500-20 UNF         | .617 (15.7)  | .270 (6.9)   |
| 10                 | 10                                          | 10S, 10SL                    | —                         | 10                     | .624-24 UNEF        | .734 (18.6)  | .375 (9.5)   |
| 12                 | 12                                          | 12, 12S                      | 07                        | 12                     | .750-20 UNEF        | .858 (21.8)  | .511 (13.0)  |
| 14                 | 14                                          | 14, 14S                      | 12                        | 14                     | .875-20 UNEF        | .984 (25.0)  | .585 (14.9)  |
| 16                 | 16                                          | 16, 16S                      | 19                        | 16                     | 1.000-20 UNEF       | 1.112 (28.2) | .710 (18.0)  |
| 18                 | 18                                          | 18                           | 27                        | 18                     | 1.062-18 UNEF       | 1.218 (30.9) | .789 (20.0)  |
| 20                 | 20                                          | 20                           | 37                        | 20                     | 1.188-18 UNEF       | 1.345 (34.2) | .914 (23.2)  |
| 22                 | 22                                          | 22                           | —                         | 22                     | 1.312-18 UNEF       | 1.468 (37.3) | 1.039 (26.4) |
| 24                 | 24                                          | 24                           | —                         | 24                     | 1.438-18 UNEF       | 1.593 (40.5) | 1.154 (29.3) |
| 28                 | —                                           | 28                           | —                         | —                      | 1.750-18 UNS        | 1.969 (50.0) | 1.389 (35.3) |
| 32                 | —                                           | 32                           | —                         | —                      | 2.000-18 UNS        | 2.219 (56.4) | 1.635 (41.5) |
| 36                 | —                                           | 36                           | —                         | —                      | 2.250-16 UN         | 2.469 (62.7) | 1.850 (47.0) |
| 40                 | —                                           | 40                           | —                         | —                      | 2.500-16 UN         | 2.719 (69.1) | 2.065 (52.5) |
| 44                 | —                                           | 44                           | —                         | —                      | 3.000-16 UN         | 2.969 (75.4) | 2.320 (58.9) |
| 48                 | —                                           | 48                           | —                         | —                      | 3.000-16 UN         | 3.219 (81.8) | 2.570 (65.3) |
| 61                 | —                                           | —                            | 61                        | —                      | 1.500-18 UNEF       | 1.653 (42.0) | 1.194 (30.3) |

**TABLE I: Dimensions for CONNECTOR DESIGNATOR F**

| Connector Dash No. | NAS 1599 and MIL-DTL-83723 Series I and III | A Thread Class - 2B | D Dia Max    | E Dia Ref    |
|--------------------|---------------------------------------------|---------------------|--------------|--------------|
| 08                 | 08                                          | .438-28 UNEF        | .860 (21.8)  | .269 (6.8)   |
| 10                 | 10                                          | .562-24 UNEF        | .980 (24.9)  | .402 (10.2)  |
| 12                 | 12                                          | .688-24 UNEF        | 1.160 (29.5) | .516 (13.1)  |
| 14                 | 14                                          | .812-20 UNEF        | 1.280 (32.5) | .641 (16.3)  |
| 16                 | 16                                          | .938-20 UNEF        | 1.410 (35.8) | .766 (19.5)  |
| 18                 | 18                                          | 1.062-18 UNEF       | 1.520 (38.6) | .863 (21.9)  |
| 20                 | 20                                          | 1.188-18 UNEF       | 1.640 (41.7) | .988 (25.1)  |
| 22                 | 22                                          | 1.312-18 UNEF       | 1.770 (45.0) | 1.113 (28.3) |
| 24                 | 24                                          | 1.438-18 UNEF       | 1.890 (48.0) | 1.238 (31.4) |

**TABLE I: Dimensions for CONNECTOR DESIGNATOR H**

| Connector Dash No. | MIL-DTL-38999 Series III & IV | A Thread      | D Dia Max    | E Dia Ref    |
|--------------------|-------------------------------|---------------|--------------|--------------|
| 09                 | A / 09                        | M12 X 1.0 -6H | .860 (21.8)  | .269 (6.8)   |
| 11                 | B / 11                        | M15 X 1.0 -6H | .980 (24.9)  | .402 (10.2)  |
| 13                 | C / 13                        | M18 X 1.0 -6H | 1.160 (29.5) | .516 (13.1)  |
| 15                 | D / 15                        | M22 X 1.0 -6H | 1.280 (32.5) | .641 (16.3)  |
| 17                 | E / 17                        | M25 X 1.0 -6H | 1.410 (35.8) | .766 (19.5)  |
| 19                 | F / 19                        | M28 X 1.0 -6H | 1.520 (38.6) | .863 (21.9)  |
| 21                 | G / 21                        | M31 X 1.0 -6H | 1.640 (41.7) | .988 (25.1)  |
| 23                 | H / 23                        | M34 X 1.0 -6H | 1.770 (45.0) | 1.113 (28.3) |
| 25                 | J / 25                        | M37 X 1.0 -6H | 1.890 (48.0) | 1.238 (31.4) |

**TABLE II: Conduit Size Code and Fitting Dimensions**

| Conduit Size Code | C Thread Class - 2A | L + .03 (0.76) - .00 | K Dia Min    |
|-------------------|---------------------|----------------------|--------------|
| A                 | .438-28 UNEF        | .210 (5.3)           | .245 (6.2)   |
| B                 | .688-24 UNEF        | .250 (6.4)           | .495 (12.6)  |
| C                 | .938-20 UNEF        | .310 (7.9)           | .745 (18.9)  |
| D                 | 1.250-18 UNEF       | .370 (9.4)           | .995 (25.3)  |
| E                 | 1.563-18 UNEF       | .370 (9.4)           | 1.245 (31.6) |
| F                 | 1.875-16 UN         | .430 (10.9)          | 1.495 (38.0) |
| G                 | 2.375-16 UN         | .430 (10.9)          | 1.995 (50.7) |
| H                 | 2.875-16 UN         | .430 (10.9)          | 2.495 (63.4) |
| J                 | .563-24 UNEF        | .250 (6.4)           | .370 (9.4)   |
| K                 | .813-20 UNEF        | .310 (7.9)           | .620 (15.7)  |
| L                 | 3.375-16 UN         | .430 (10.9)          | 2.995 (76.1) |