

**TABLE I**  
**DIMENSIONAL CHART - 45 AND 90 DEGREE ADAPTERS**

| SHELL SIZE | H            | J            | L            | M            | N           | P            | R            | S            |
|------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|
| 8, 9 (A)   | .457 (11.6)  | 1.780 (45.2) | .500 (12.7)  | 1.780 (45.2) | .639 (16.2) | 1.780 (45.2) | .750 (19.1)  | 1.780 (45.2) |
| 10, 11 (B) | .520 (13.2)  | 1.840 (46.7) | .595 (15.1)  | 1.910 (48.5) | .664 (16.9) | 1.840 (46.7) | .810 (20.6)  | 1.910 (48.5) |
| 12, 13 (C) | .582 (14.8)  | 1.900 (48.3) | .610 (15.5)  | 1.930 (49.0) | .688 (17.5) | 1.900 (48.3) | .870 (22.1)  | 1.930 (49.0) |
| 14, 15 (D) | .645 (16.4)  | 2.220 (56.4) | .700 (17.8)  | 2.230 (56.6) | .705 (17.9) | 2.220 (56.4) | .920 (23.4)  | 2.230 (56.6) |
| 16, 17 (E) | .738 (18.7)  | 2.330 (59.2) | .885 (22.5)  | 2.320 (58.9) | .732 (18.6) | 2.330 (59.2) | .980 (24.9)  | 2.320 (58.9) |
| 18, 19 (F) | .926 (23.5)  | 2.520 (64.0) | .975 (24.8)  | 2.490 (63.2) | .748 (19.0) | 2.520 (64.0) | 1.020 (25.9) | 2.490 (63.2) |
| 20, 21 (G) | .926 (23.5)  | 2.520 (64.0) | .975 (24.8)  | 2.490 (63.2) | .773 (19.6) | 2.520 (64.0) | 1.080 (27.4) | 2.490 (63.2) |
| 22, 23 (H) | 1.020 (25.9) | 2.670 (67.8) | 1.125 (28.6) | 2.600 (66.0) | .800 (20.3) | 2.670 (67.8) | 1.140 (29.0) | 2.600 (66.0) |
| 24, 25 (J) | 1.020 (25.9) | 2.670 (67.8) | 1.125 (28.6) | 2.600 (66.0) | .823 (20.9) | 2.670 (67.8) | 1.200 (30.5) | 2.600 (66.0) |



**EMI/RFI ENVIRONMENTAL BACKSHELL**  
**CP\*891, CP\*893, CP\*894, CP\*898, CP\*899**  
**PART NUMBER BREAKDOWN & CROSS REFERENCE**

**SERIES**  
**89**

| SERIES 89 - PART NUMBER BREAKDOWN / HOW TO ORDER                                                                                                                                                                               |   |    |   |   |   |     |    |   |    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|---|---|---|-----|----|---|----|--|
| CP                                                                                                                                                                                                                             | F | 89 | 1 | W | D | -16 | 06 | M | -6 |  |
| <b>LENGTH (STRAIGHT ONLY)</b><br>1/4 INCH INCREMENTS; 1.5 INCH MINIMUM<br>OMIT FOR 1.5 INCH LENGTH<br>e.g. '-12' INDICATES A 3 INCH LENGTH                                                                                     |   |    |   |   |   |     |    |   |    |  |
| <b>STRAIN RELIEF OPTION (SEE SECTION E)</b><br>OMIT FOR NONE                                                                                                                                                                   |   |    |   |   |   |     |    |   |    |  |
| <b>CABLE ENTRY / DASH NUMBER (SEE SECTION E)</b>                                                                                                                                                                               |   |    |   |   |   |     |    |   |    |  |
| <b>SHELL SIZE</b>                                                                                                                                                                                                              |   |    |   |   |   |     |    |   |    |  |
| <b>D = DIRECT COUPLING OPTION</b><br><b>S = SELF-LOCKING COUPLING OPTION</b><br>OMIT FOR STANDARD ROTATABLE COUPLING                                                                                                           |   |    |   |   |   |     |    |   |    |  |
| <b>MATERIAL &amp; FINISH</b><br>C = ALUMINUM, ANODIZE, BLACK<br>F = ALUMINUM, ELECTROLESS NICKEL<br>G = ALUMINUM, HARD ANODIZE<br>K = STAINLESS STEEL, PASSIVATED<br>W = ALUMINIUM, CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL |   |    |   |   |   |     |    |   |    |  |
| <b>ANGLE</b><br>1 = STRAIGHT<br>3 = 45 DEGREES, LOW PROFILE<br>4 = 45 DEGREES, STANDARD PROFILE<br>8 = 90 DEGREES, LOW PROFILE<br>9 = 90 DEGREES, STANDARD PROFILE                                                             |   |    |   |   |   |     |    |   |    |  |
| <b>SERIES</b>                                                                                                                                                                                                                  |   |    |   |   |   |     |    |   |    |  |
| <b>INTERFACE CODE</b><br>A = MIL-DTL-5015 CRIMP, MIL-DTL-26482 II, MIL-DTL-83723 III<br>D = MIL-DTL-26482 SERIES I<br>F = MIL-DTL-38999 SERIES I & II<br>H = MIL-DTL-38999 SERIES III & IV                                     |   |    |   |   |   |     |    |   |    |  |
| <b>BASIC PART NUMBER</b>                                                                                                                                                                                                       |   |    |   |   |   |     |    |   |    |  |

**CROSS REFERENCE INFORMATION - FOR COMPLETE BREAKDOWN SEE APPENDIX A**

| GLENAIR CROSS REFERENCE |   |   |     |   |    |    |   |   |                   |
|-------------------------|---|---|-----|---|----|----|---|---|-------------------|
| 390                     | F | S | 037 | M | 16 | 10 | M | 6 |                   |
|                         |   |   | 038 |   |    |    |   |   | LENGTH            |
|                         |   |   |     |   |    |    |   |   | STRAIN RELIEF     |
|                         |   |   |     |   |    |    |   |   | CABLE ENTRY       |
|                         |   |   |     |   |    |    |   |   | SHELL SIZE        |
|                         |   |   |     |   |    |    |   |   | MATERIAL & FINISH |
|                         |   |   |     |   |    |    |   |   | BASIC PART NUMBER |
|                         |   |   |     |   |    |    |   |   | ANGLE             |
|                         |   |   |     |   |    |    |   |   | INTERFACE CODE    |
|                         |   |   |     |   |    |    |   |   | SERIES            |

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**SECTION  
A**

**CONNECTOR INTERFACE DIMENSIONS**



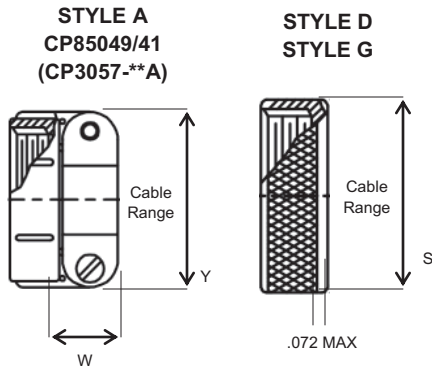
| CONNECTOR INTERFACE DIMENSION TABLE |        |        |                  |              |              |              |              |
|-------------------------------------|--------|--------|------------------|--------------|--------------|--------------|--------------|
| CONNECTOR INTERFACE                 |        |        |                  |              |              |              |              |
| A                                   | D, F   | H      | THREAD           | A DIA MAX    | B DIA MAX    | C DIA MAX    | D DIA MAX    |
|                                     | 8, 9   |        | 7/16 – 28 UNEF   | .590 (15.)   | .650 (16.5)  | .770 (19.6)  | .690 (17.5)  |
|                                     |        | 9 (A)  | M12 x 1 – 6H     | .650 (16.5)  | .770 (19.6)  | .770 (19.6)  | .940 (24.8)  |
| 8                                   |        |        | 1/2 – 20 UNF     | .650 (16.5)  | .650 (16.5)  | .650 (16.5)  | .690 (17.5)  |
|                                     | 10, 11 |        | 9/16 – 24 UNEF   | .720 (18.3)  | .770 (19.6)  | .890 (22.6)  | .820 (20.8)  |
|                                     |        | 11 (B) | M15 x 1 – 6H     | .770 (19.6)  | .820 (20.8)  | .820 (20.8)  | 1.060 (26.9) |
| 10                                  |        |        | 5/8 – 24 UNEF    | .770 (19.6)  | .770 (19.6)  | .890 (22.6)  | .820 (20.8)  |
|                                     | 12, 13 |        | 11/16 – 24 UNEF  | .840 (21.3)  | .890 (22.6)  | 1.020 (25.9) | .940 (23.8)  |
|                                     |        | 13 (C) | M18 x 1 – 6H     | .890 (22.6)  | .940 (23.9)  | .940 (23.9)  | 1.170 (29.7) |
| 12                                  |        |        | 3/4 – 20 UNEF    | .970 (24.6)  | .940 (23.9)  | 1.020 (25.9) | .940 (23.8)  |
|                                     | 14, 15 |        | 13/16 – 20 UNEF  | .970 (24.6)  | 1.020 (29.2) | 1.150 (29.2) | 1.060 (26.9) |
|                                     |        | 15 (D) | M22 x 1 – 6H     | 1.030 (26.2) | 1.070 (26.2) | 1.070 (26.2) | 1.290 (32.7) |
| 14                                  |        |        | 7/8 – 20 UNEF    | 1.090 (27.7) | 1.020 (25.9) | 1.150 (29.2) | 1.060 (26.9) |
|                                     | 16, 17 |        | 15/16 – 20 UNEF  | 1.090 (27.7) | 1.150 (29.2) | 1.260 (32.0) | 1.170 (29.7) |
|                                     |        | 17 (E) | M25 x 1 – 6H     | 1.150 (29.2) | 1.210 (30.7) | 1.210 (30.7) | 1.420 (36.1) |
| 16                                  |        |        | 1 – 20 UNEF      | 1.220 (29.2) | 1.210 (30.7) | 1.230 (31.2) | 1.170 (29.7) |
| 18                                  | 18, 19 |        | 1 1/16 – 18 UNEF | 1.220 (31.0) | 1.230 (31.2) | 1.400 (35.6) | 1.290 (32.7) |
|                                     |        | 19 (F) | M28 x 1 – 6H     | 1.280 (32.5) | 1.360 (34.5) | 1.360 (34.5) | 1.540 (39.1) |
| 20                                  | 20, 21 |        | 1 3/16 – 18 UNEF | 1.340 (34.0) | 1.360 (34.5) | 1.530 (38.9) | 1.420 (36.0) |
|                                     |        | 21 (G) | M31 x 1 – 6H     | 1.410 (35.8) | 1.480 (37.6) | 1.480 (37.6) | 1.670 (42.4) |
| 22                                  | 22, 23 |        | 1 5/16 – 18 UNEF | 1.470 (37.3) | 1.480 (37.6) | 1.600 (40.6) | 1.540 (39.1) |
|                                     |        | 23 (H) | M34 x 1 – 6H     | 1.530 (38.9) | 1.600 (40.6) | 1.600 (40.6) | 2.010 (51.1) |
| 24                                  | 24, 25 |        | 1 7/16 – 18 UNEF | 1.590 (40.4) | 1.730 (43.9) | 1.940 (49.3) | 1.660 (42.2) |
|                                     |        | 25 (J) | M37 x 1 – 6H     | 1.660 (42.2) | 1.700 (43.2) | 1.700 (43.2) | 2.120 (53.8) |
| 28                                  |        |        | 1 3/4 – 18 UNS   | 1.970 (50.0) | 1.970 (50.0) | 1.970 (50.0) | 2.010 (51.1) |
| 32                                  |        |        | 2 – 18 UNS       | 2.280 (57.9) | 2.220 (56.4) | 2.220 (56.4) | 2.260 (57.4) |
| 36                                  |        |        | 2 1/4 – 16 UN    | 2.530 (64.3) | 2.47 (62.7)  | 2.47 (62.7)  | 2.530 (64.3) |

**SECTION  
E**

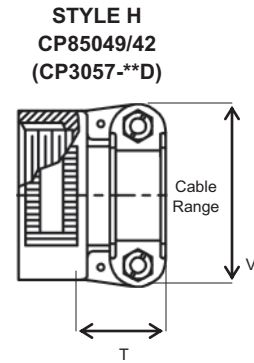
**STRAIN RELIEF SPECIFICATIONS**



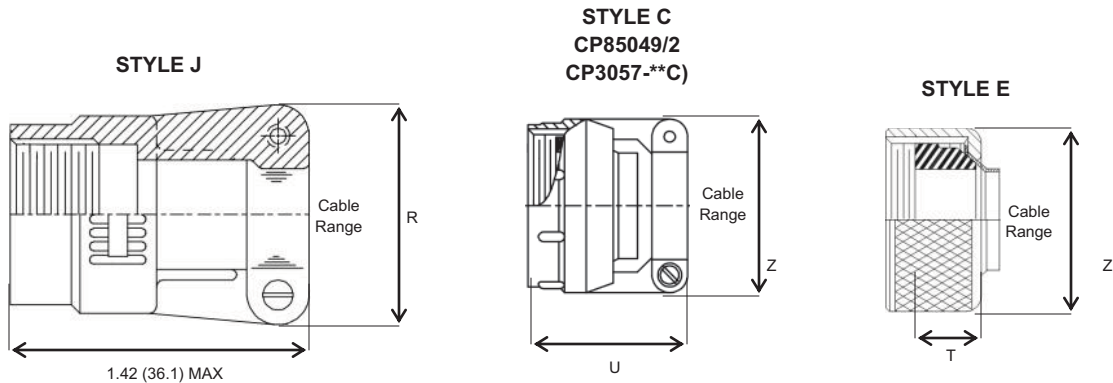
**LIGHT DUTY**



**HEAVY DUTY**



**MEDIUM DUTY**



**TABLE II - DIMENSIONAL CHART - FOR STRAIN RELIEF ADAPTERS**

| DASH | R MAX        | S MAX        | T MAX        | U MAX        | V MAX        | W MAX        | Y MAX        | Z MAX        |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 01   | .781 (19.8)  | .630 (16.0)  | .780 (19.8)  | 1.375 (34.9) | .957 (24.3)  | .437 (11.1)  | .812 (20.6)  | .812 (20.6)  |
| 02   | .968 (24.6)  | .755 (19.2)  | .780 (19.8)  | 1.375 (34.9) | 1.145 (29.1) | .437 (11.1)  | .875 (22.2)  | .937 (23.8)  |
| 03   | 1.046 (26.6) | .942 (23.9)  | .780 (19.8)  | 1.375 (34.9) | 1.332 (33.8) | .500 (12.7)  | 1.062 (27.0) | 1.062 (27.0) |
| 04   | 1.156 (29.4) | 1.067 (27.1) | .780 (19.8)  | 1.375 (34.9) | 1.332 (33.8) | .563 (14.3)  | 1.156 (29.4) | 1.188 (30.2) |
| 05   | 1.218 (30.9) | 1.192 (30.3) | .811 (20.6)  | 1.437 (36.5) | 1.551 (39.4) | .563 (14.3)  | 1.250 (31.8) | 1.312 (33.3) |
| 06   | 1.343 (34.1) | 1.380 (35.1) | .905 (23.0)  | 1.437 (36.5) | 1.770 (45.0) | .563 (14.3)  | 1.469 (37.3) | 1.562 (39.7) |
| 07   | 1.468 (37.3) | 1.535 (39.0) | 1.092 (27.7) | 1.562 (39.7) | 2.113 (53.7) | .656 (16.7)  | 1.688 (42.9) | 1.750 (44.5) |
| 08   | 1.593 (40.5) | 1.848 (46.9) | 1.124 (28.5) | 1.812 (46.0) | 2.363 (60.0) | .656 (16.7)  | 2.031 (51.6) | 2.250 (57.2) |
| 09   | 1.718 (43.6) | 2.255 (57.3) | 1.399 (35.5) | 2.062 (52.4) | 2.770 (70.4) | .656 (16.7)  | 2.281 (57.9) | 2.375 (60.3) |
| 10   | 1.843 (46.8) | 2.505 (63.6) | 1.399 (35.5) | 2.062 (52.4) | 3.020 (76.7) | 1.188 (30.2) | 2.688 (68.3) | 2.625 (66.7) |
| 11   | N/A          | N/A          | N/A          | 2.188 (55.6) | N/A          | 1.187 (30.1) | 2.938 (74.6) | 2.812 (71.4) |
| 12   | N/A          | N/A          | N/A          | N/A          | N/A          | 1.125 (28.6) | 3.500 (88.9) | N/A          |



# STRAIN RELIEF SPECIFICATIONS

# SECTION E

**TABLE I - CABLE RANGE - FOR STRAIN RELIEF ADAPTERS**

| DASH | STYLE 'H'    |              | STYLE 'A'<br>STYLE 'D' |              | STYLE 'J'<br>STYLE 'G' |              | STYLE 'C'<br>STYLE 'E' |              |
|------|--------------|--------------|------------------------|--------------|------------------------|--------------|------------------------|--------------|
|      | MIN          | MAX          | MIN                    | MAX          | MIN                    | MAX          | MIN                    | MAX          |
| 01   | N/A          | N/A          | .156 (4.0)             | .250 (6.4)   | .062 (1.6)             | .125 (3.2)   | .217 (5.5)             | .219 (5.6)   |
| 02   | .125 (3.2)   | .312 (7.9)   | .188 (4.8)             | .312 (7.9)   | .125 (3.2)             | .250 (6.4)   | .296 (7.5)             | .312 (7.9)   |
| 03   | .250 (6.4)   | .437 (11.1)  | .281 (7.1)             | .438 (11.1)  | .250 (6.4)             | .375 (9.5)   | .390 (9.9)             | .438 (11.1)  |
| 04   | .312 (7.9)   | .562 (14.3)  | .387 (9.8)             | .562 (14.3)  | .375 (9.5)             | .500 (12.7)  | .434 (11.0)            | .531 (13.5)  |
| 05   | .350 (8.9)   | .625 (15.9)  | .375 (9.5)             | .625 (15.9)  | .500 (12.7)            | .625 (15.9)  | .434 (11.0)            | .625 (15.9)  |
| 06   | .500 (12.7)  | .750 (19.1)  | .438 (11.1)            | .750 (19.1)  | .625 (15.9)            | .750 (19.1)  | .596 (15.1)            | .750 (19.1)  |
| 07   | .625 (15.9)  | .937 (23.8)  | .625 (15.9)            | .938 (23.8)  | .750 (19.1)            | .875 (22.2)  | .596 (15.1)            | .938 (23.8)  |
| 08   | .875 (22.2)  | 1.250 (31.8) | .875 (22.2)            | 1.250 (31.8) | .875 (22.2)            | 1.000 (25.4) | .858 (21.8)            | 1.250 (31.8) |
| 09   | 1.000 (25.4) | 1.375 (34.9) | 1.000 (25.4)           | 1.375 (34.9) | 1.000 (25.4)           | 1.125 (28.6) | .858 (21.8)            | 1.375 (34.9) |
| 10   | 1.250 (31.8) | 1.625 (41.3) | 1.250 (31.8)           | 1.625 (41.3) | 1.125 (28.6)           | 1.250 (31.8) | 1.107 (28.1)           | 1.625 (41.3) |
| 11   | 1.437 (36.5) | 1.875 (47.6) | 1.437 (36.5)           | 1.875 (47.6) | N/A                    | N/A          | 1.421 (36.1)           | 1.875 (47.6) |
| 12   | N/A          | N/A          | 1.875 (47.6)           | 2.375 (60.3) | N/A                    | N/A          | N/A                    | N/A          |

**PART NUMBER BREAKDOWN / HOW TO ORDER**

|                                                     |   |    |   |   |   |     |    |   |    |  |
|-----------------------------------------------------|---|----|---|---|---|-----|----|---|----|--|
| CP                                                  | F | 73 | 1 | W | D | -16 | 06 | G | -6 |  |
| STRAIN RELIEF OPTION (SEE TABLE I)<br>OMIT FOR NONE |   |    |   |   |   |     |    |   |    |  |
| CABLE ENTRY / DASH NUMBER (SEE TABLE I)             |   |    |   |   |   |     |    |   |    |  |

**TABLE III - CROSS REFERENCE TABLE - TO ORDER STRAIN RELIEFS SEPARATELY**

| DASH | STYLE 'H'       |                | STYLE 'A'      |               | STYLE 'C'     |              |
|------|-----------------|----------------|----------------|---------------|---------------|--------------|
|      | COMPAERO        | MIL-SPEC       | COMPAERO       | MIL-SPEC      | COMPAERO      | MIL-SPEC     |
| 01   | N/A             | N/A            | CP85049/41-3A  | M85049/41-3A  | CP85049/2-3C  | M85049/2-3C  |
| 02   | CP85049/42-4D*  | M85049/42-4D*  | CP85049/41-4A  | M85049/41-4A  | CP85049/2-4C  | M85049/2-4C  |
| 03   | CP85049/42-6D*  | M85049/42-6D*  | CP85049/41-6A  | M85049/41-6A  | CP85049/2-6C  | M85049/2-6C  |
| 04   | CP85049/42-8D*  | M85049/42-8D*  | CP85049/41-8A  | M85049/41-8A  | CP85049/2-8C  | M85049/2-8C  |
| 05   | CP85049/42-10D* | M85049/42-10D* | CP85049/41-10A | M85049/41-10A | CP85049/2-10C | M85049/2-10C |
| 06   | CP85049/42-12D* | M85049/42-12D* | CP85049/41-12A | M85049/41-12A | CP85049/2-12C | M85049/2-12C |
| 07   | CP85049/42-16D* | M85049/42-16D* | CP85049/41-16A | M85049/41-16A | CP85049/2-16C | M85049/2-16C |
| 08   | CP85049/42-20D* | M85049/42-20D* | CP85049/41-20A | M85049/41-20A | CP85049/2-20C | M85049/2-20C |
| 09   | CP85049/42-24D* | M85049/42-24D* | CP85049/41-24A | M85049/41-24A | CP85049/2-24C | M85049/2-24C |
| 10   | CP85049/42-28D* | M85049/42-28D* | CP85049/41-28A | M85049/41-28A | CP85049/2-28C | M85049/2-28C |
| 11   | CP85049/42-32D* | M85049/42-32D* | CP85049/41-32A | M85049/41-32A | CP85049/2-32C | M85049/2-32C |
| 12   | N/A             | N/A            | CP85049/41-40A | M85049/41-40A | N/A           | N/A          |

\* REPLACE WITH FINISH CODE: N = ELECTROLESS NICKEL, W = CADMIUM OLIVE DRAB, K = STAINLESS STEEL



# RECOMMENDED TORQUE VALUES

# SECTION G

| INSTALLATION TORQUE VALUES<br>FOR CIRCULAR ELECTRICAL CONNECTOR ACCESSORIES |                     |      |
|-----------------------------------------------------------------------------|---------------------|------|
| ACCESSORY THREAD TORQUE: $\pm 5$ INCH POUNDS                                |                     |      |
|                                                                             | CONNECTOR INTERFACE |      |
| SHELL SIZE                                                                  | D, F                | A, H |
| 8, 9, A                                                                     | 35                  | 56   |
| 10, 10SL, 11, B                                                             | 35                  | 76   |
| 12, 12S, 13, C                                                              | 40                  | 108  |
| 14, 14S, 15, D                                                              | 40                  | 116  |
| 16, 16S, 17, E                                                              | 40                  | 116  |
| 18, 19, 27, F                                                               | 40                  | 116  |
| 20, 21, 37, G                                                               | 80                  | 136  |
| 22, 23, H                                                                   | 80                  | 136  |
| 24, 25, 61, J                                                               | 80                  | 136  |
| 28, 29                                                                      | 120                 | 148  |
| 32, 33                                                                      | 120                 | 148  |
| 36                                                                          | 120                 | 148  |
| 40                                                                          | 160                 | 164  |
| 44                                                                          | 160                 | 164  |
| 48                                                                          | 160                 | 164  |