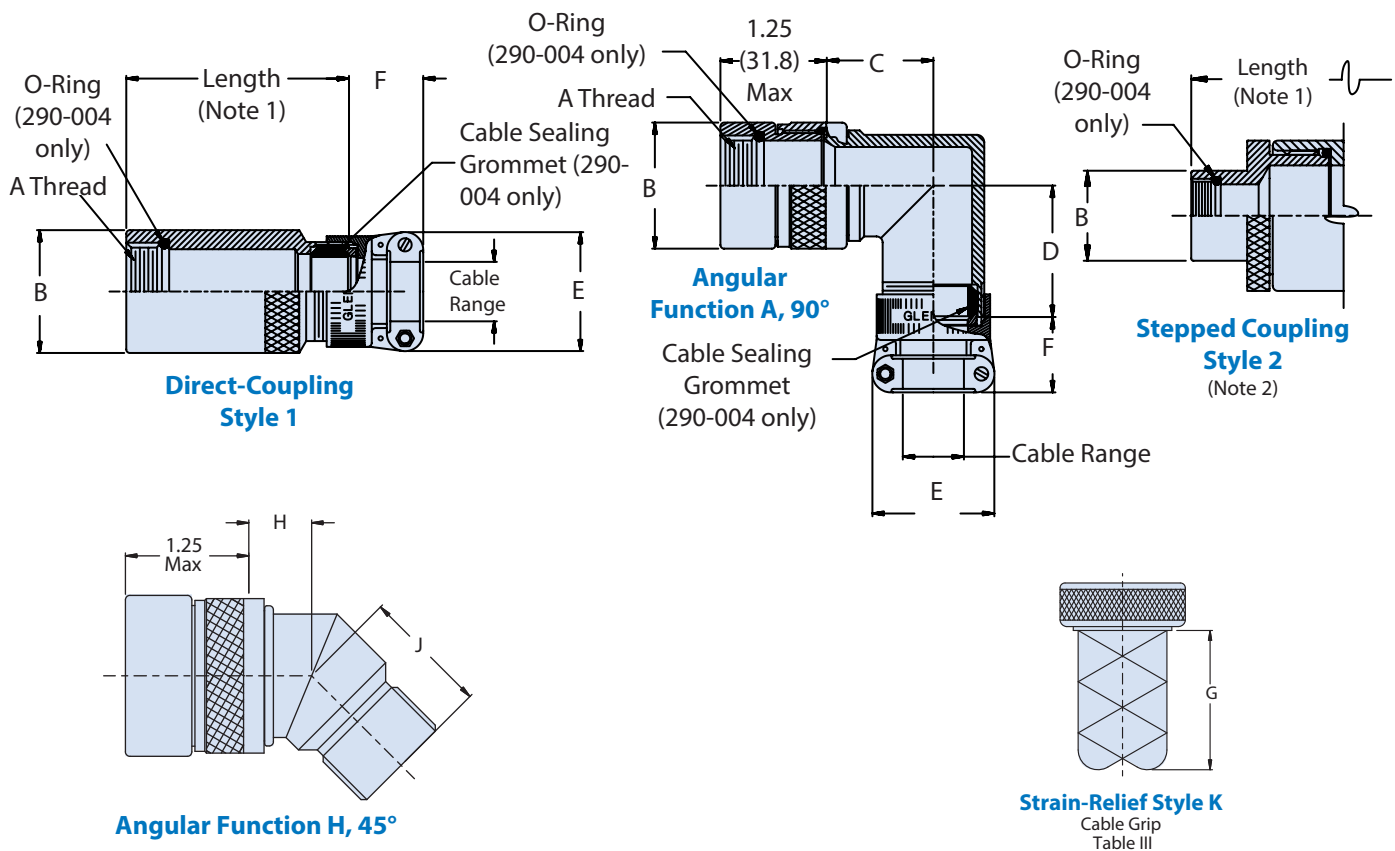


## 90°, 45° OR STRAIGHT ENVIRONMENTAL BACKSHELL AND/OR CABLE CLAMP



|                             |   | How To Order |          |          |            |           |            |           |          |          |
|-----------------------------|---|--------------|----------|----------|------------|-----------|------------|-----------|----------|----------|
| <b>Sample Part Number</b>   |   | <b>290</b>   | <b>W</b> | <b>A</b> | <b>003</b> | <b>NF</b> | <b>-16</b> | <b>10</b> | <b>H</b> | <b>6</b> |
| <b>Product Series</b>       | <b>290</b>  |              |          |          |            |           |            |           |          |          |
| <b>Connector Designator</b> | <b>W</b>  |              |          |          |            |           |            |           |          |          |
| <b>Angular Function</b>     | <b>A</b> = 90°<br><b>H</b> = 45°<br><b>S</b> = Straight                     |              |          |          |            |           |            |           |          |          |
| <b>Basic Part Number</b>    | <b>003</b> = Strain Relief<br><b>004</b> = Environmental Seal/Strain Relief |              |          |          |            |           |            |           |          |          |
| <b>Material/Finish</b>      | <b>B, G, M, GB, NF, Z1</b> See Table IV,                                    |              |          |          |            |           |            |           |          |          |
| <b>Shell Size</b>           | <b>-10, -12, -14, -16, -18, -20, -22, -24, -28</b> See Table I              |              |          |          |            |           |            |           |          |          |
| <b>Cable Entry Dash No.</b> | <b>04, 06, 08, 10, 12, 16, 18, 20, 24, 28, 32</b><br>See Table II           |              |          |          |            |           |            |           |          |          |
| <b>Strain Relief Style</b>  | <b>H</b> = Cable Clamp, Table II <b>K</b> = Cable Grip, Table III           |              |          |          |            |           |            |           |          |          |
| <b>Length (S Only)</b>      | 1/2 inch Increments, e.g. <b>6</b> = 3.0 inches; See Note 2                 |              |          |          |            |           |            |           |          |          |



# 290-003 and 290-004 Strain-Relief Clamps and Environmental Backshells



| Shell Size | A Thread Class 2B | B Dia Max    |
|------------|-------------------|--------------|
| 10         | 5/8-24 UNEF       | 0.781 (19.8) |
| 12         | 3/4-20 UNEF       | 0.906 (23.0) |
| 14         | 7/8-20 UNEF       | 1.031 (26.2) |
| 16         | 1-20 UNEF         | 1.156 (29.4) |
| 18         | 1 1/8-16 UN       | 1.281 (32.5) |
| 20         | 1 1/4-16 UN       | 1.406 (35.7) |
| 22         | 1 3/8-16 UN       | 1.531 (38.9) |
| 24         | 1 1/2-16 UN       | 1.656 (42.1) |
| 28         | 1 5/8-18 UNEF     | 1.781 (45.2) |

| Dash No. | C Max       | D Max       | E Max        | F Max        | H Max       | J Max       | Cable Entry  |              |
|----------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|--------------|
|          |             |             |              |              |             |             | Min          | Max          |
| 04       | 0.94 (23.9) | 1.16 (29.5) | 0.957 (24.3) | 0.780 (19.8) | 0.74 (18.8) | 0.95 (24.1) | 0.125 (3.2)  | 0.312 (7.9)  |
| 06       | 0.98 (24.9) | 1.22 (31.0) | 1.145 (29.1) | 0.780 (19.8) | 0.76 (19.3) | 0.98 (24.9) | 0.250 (6.4)  | 0.437 (11.1) |
| 08       | 1.03 (26.2) | 1.25 (31.8) | 1.332 (33.8) | 0.780 (19.8) | 0.78 (19.8) | 1.00 (25.4) | 0.312 (7.9)  | 0.562 (14.3) |
| 10       | 1.09 (27.7) | 1.32 (33.5) | 1.332 (33.8) | 0.780 (19.8) | 0.80 (20.3) | 1.03 (26.2) | 0.350 (8.9)  | 0.625 (15.9) |
| 12       | 1.12 (28.4) | 1.36 (34.5) | 1.551 (39.4) | 0.811 (20.6) | 0.82 (20.8) | 1.05 (26.7) | 0.500 (12.7) | 0.750 (19.1) |
| 16       | 1.25 (31.8) | 1.45 (36.8) | 1.770 (45.0) | 0.905 (23.0) | 0.87 (22.1) | 1.09 (27.7) | 0.625 (15.9) | 0.937 (23.8) |
| 20       | 1.41 (35.8) | 1.65 (41.9) | 2.113 (53.7) | 1.092 (27.7) | 1.14 (29.0) | 1.35 (34.3) | 0.875 (22.2) | 1.250 (31.8) |
| 24       | 1.41 (35.8) | 1.65 (41.9) | 2.363 (60.0) | 1.124 (28.5) | 1.14 (29.0) | 1.35 (34.3) | 1.000 (25.4) | 1.375 (34.9) |
| 28       | 1.60 (40.6) | 1.88 (47.8) | 2.770 (70.4) | 1.399 (35.5) | 1.27 (32.3) | 1.43 (36.3) | 1.250 (31.8) | 1.625 (41.3) |
| 32       | 1.60 (40.6) | 1.88 (47.8) | 3.020 (76.7) | 1.399 (35.5) | 1.27 (32.3) | 1.43 (36.3) | 1.437 (36.5) | 1.875 (47.6) |

| Dash No | G Length Ref | Grip Range   |              |
|---------|--------------|--------------|--------------|
|         |              | Min          | Max          |
| 03      | 2.12 (53.8)  | 0.180 (4.6)  | 0.210 (5.3)  |
| 04      | 2.75 (69.9)  | 0.210 (5.3)  | 0.310 (7.9)  |
| 06      | 4.00 (101.6) | 0.310 (7.9)  | 0.438 (11.1) |
| 08      | 4.12 (104.6) | 0.438 (11.1) | 0.500 (12.7) |
| 10      | 4.37 (111.0) | 0.500 (12.7) | 0.625 (15.9) |
| 12      | 6.00 (152.4) | 0.625 (15.9) | 0.750 (19.1) |
| 14      | 5.00 (127.0) | 0.750 (19.1) | 0.875 (22.2) |
| 16      | 6.00 (152.4) | 0.875 (22.2) | 1.000 (25.4) |
| 20      | 6.25 (158.8) | 1.000 (25.4) | 1.250 (31.8) |
| 24      | 7.25 (184.2) | 1.125 (28.6) | 1.375 (34.9) |

| Sym | Finish Description                                       |
|-----|--|
| B   | Cadmium Plate/Olive Drab                                 |
| G   | Hard Coat, Mil-A-8625 Color Gray                         |
| M   | Electroless Nickel                                       |
| N   | Cadmium Plate/Olive Drab Over Nickel Plate               |
| GB  | Hard Coat, Mil-A-8625 Color Black                        |
| NF  | Cad/O. D. Over Electroless Nickel (1000 Hour Salt Spray) |
| Z1  | Stainless Steel Material Passivate Per QQ-P-35           |

## Notes

1. Assembly identified with manufacturer's name and P/N, space permitting.
2. Standard minimum length for Style I is 1.50 Inch, for Style II is 2.00 Inches. For shorter length, consult factory. Note: applies to Sym S, straight, only.
3. When cable diameter exceeds inside diameter or connector shell, Style II will be supplied.
4. Glenair 600 series backshell assembly tools are recommended for assembly and installation.
5. Material/finish:  
Elbows, adapter, coupling & gland nuts, clamp - Al alloy or CRES/see Table II.  
Grip, hardware - CRES/passivate.

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