

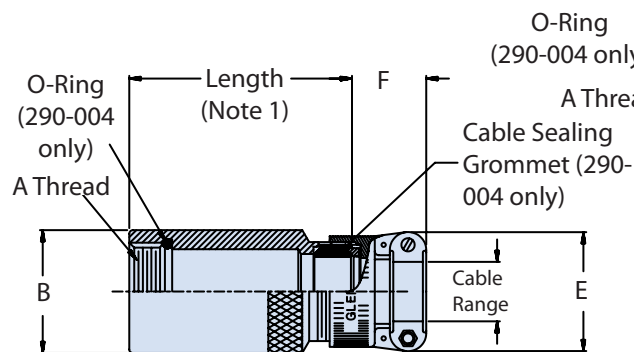


290-003 and 290-004 Strain-Relief Clamps and Environmental Backshells

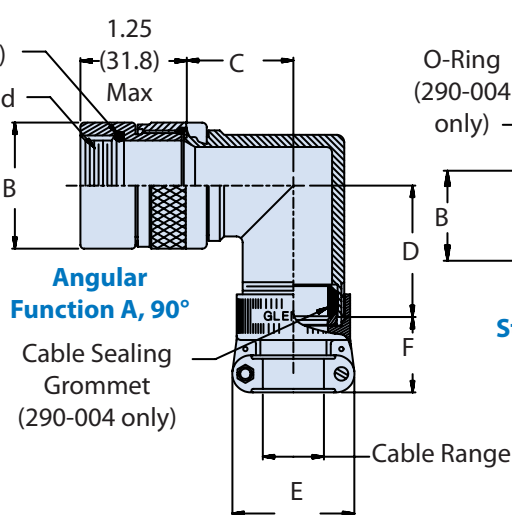
90°, 45° OR STRAIGHT ENVIRONMENTAL BACKSHELL AND/OR CABLE CLAMP



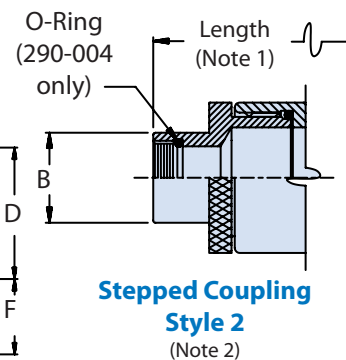
How To Order									
Sample Part Number	290	W	A	003	NF	-16	10	H	6
Product Series	290								
Connector Designator	W								
Angular Function	A = 90° H = 45° S = Straight								
Basic Part Number	003 = Strain Relief 004 = Environmental Seal/Strain Relief								
Material/Finish	B, G, M, GB, NF, Z1 See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



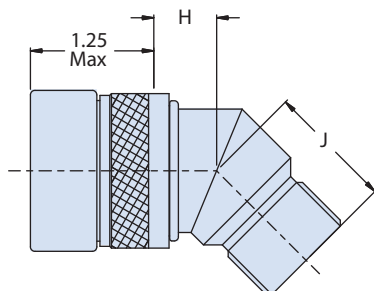
**Direct-Coupling
Style 1**



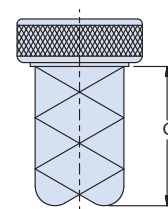
**Angular
Function A, 90°**
Cable Sealing
Grommet
(290-004 only)



**Stepped Coupling
Style 2**
(Note 2)



Angular Function H, 45°



Strain-Relief Style K
Cable Grip
Table III Rev. 09.01.20

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



Geo-Marine
Accessories

Table I: Connector Mating Dimensions

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)
26	1 5/8-18 UNEF	1.781 (45.2)
28	1 3/4-18 UNS	1.906 (48.4)

Table II: Backshell and Style H Dimension

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)

Table III: Style K Dimensions

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)

Table IV: Finish

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.