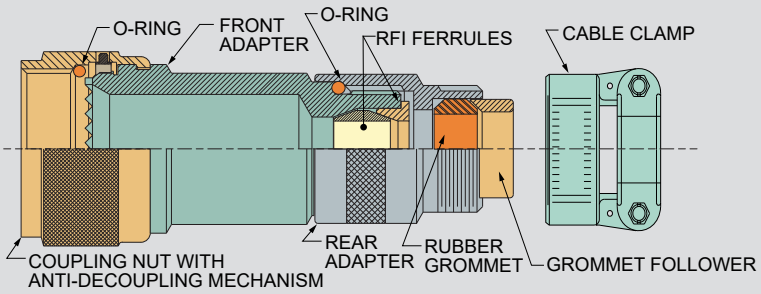
Series 806
Mil-Aero Connectors
390V*091 Metal EMI/RFI Full Radius Environmental Backshell

EMI shielding. Environmental. Self-locking. Straight, 45° or 90°. For use with shielded, jacketed cable. Compatible with Series 806 micro miniature connectors. Terminate cable shield to inner and outer ground rings. Heavy duty cable clamps. Aluminum or stainless steel with silicone O-rings and gland. Stainless steel telescoping clamp screws. Meets environmental, electrical and mechanical requirements of AS85049 Category 1A Heavy Duty.



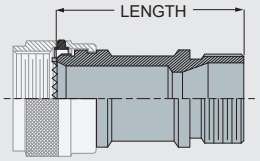
Features
- EMI/RFI protected
- Self-locking spin coupling
- Telescoping clamp screws
- Environmental

Specifications
- Operating temperature:
  codes ME, MT and Z1:-65°C to +200°C
  codes ZR, NF:-65°C to +175°C
- Shell conductivity:
  aluminum versions: 2.5 milliohms max.
  Stainless steel: 5 milliohms max.
- Salt spray (corrosion)
  Code ME: 96 hours
  Code NF, ZR, MT, Z1: 1000 hours
- Vibration: SAE AS85049 Category 1A
- Shock: SAE AS85049 Category 1A
- Water pressure: SAE AS85049 Cat. 1A

Construction
- Coupling nut, adapters, ferrules, clamps, follower: see material/finish codes
- O-rings, grommet: silicone
- Anti-decoupling device: corrosion-resistant material
- Hardware: stainless steel, passivated

How To Order

SAMPLE PART NUMBER	390VS091	ME	12	06	H	4
Product	**390VS091** = Straight Backshell **390VM091** = 45° Backshell **390VN091** = 90° EMI Backshell					
Material/ Finish	**ME** = Aluminum, Electroless Nickel **MT** = Aluminum, Ni/PTFE **ZR** = Aluminum, Black Zinc-Nickel **NF** = Aluminum, Olive Drab Cadmium **Z1** = Stainless Steel, Passivated					
Shell Size	**07 08 09 10 11 12 14 16 18 20 22 24**					
Cable Clamp Size	*See Table 1 for cable clamp sizes*					
Strain Relief Clamp	**H** = Saddle bar clamp, heavy duty, with telescoping screws					
Backshell Length	***Omit for 45° and 90° versions.*** ***Applicable to 390VS091 only.*** Length in ½ inch increments: **3** = 1½ inches (min. for Style 1) **4** = 2 inches (min. for Style 2) **5** = 2½ inches **6** = 3 inches					



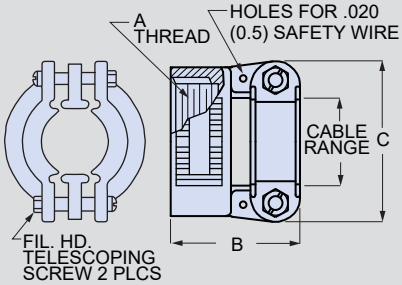


Table 1: Cable Clamp Size

Clamp Size	Cable Range Min. In.	Cable Range Min. mm.	Cable Range Max. In.	Cable Range Max. mm.	A Thread Class 2B	B Max. In.	B Max. mm.	C Max. In.	C Max. mm.
04	.125	3.2	.312	7.9	.625-24UNEF	1.301	33.04	.957	24.3
06	.250	6.4	.437	11.1	.750-20UNEF	1.301	33.04	1.145	29.1
08	.312	7.9	.562	14.3	.875-20UNEF	1.301	33.04	1.332	33.8
10	.350	8.9	.625	15.9	1.000-20UNEF	1.301	33.04	1.332	33.8
12	.500	12.7	.750	19.1	1.1875-18UNEF	1.332	33.83	1.551	39.4
16	.625	15.9	.937	23.8	1.4375-18UNEF	1.426	36.22	1.770	45.0
20	.875	22.2	1.250	31.8	1.750-18UNS	1.613	40.97	2.113	53.7
24	1.000	25.4	1.375	34.9	2.000-18UNS	1.645	41.78	2.363	60.0

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Dimensions in Inches (millimeters) are subject to change without notice.

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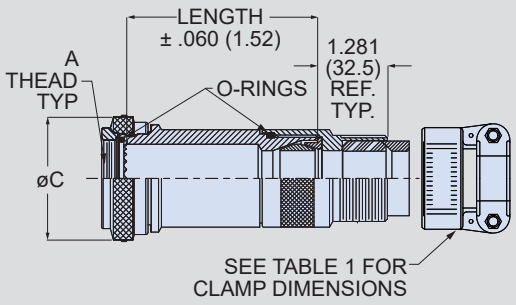
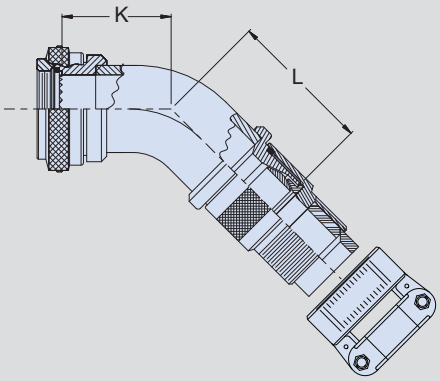
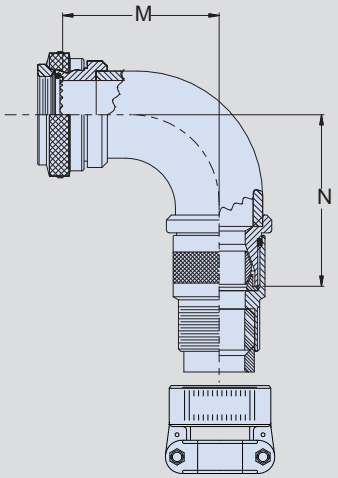
390VS091
Straight Exit



390VM091
45° Exit



390VN143
90° Exit

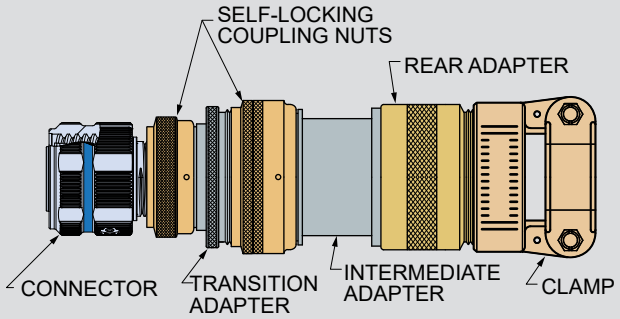


Shell Size	A ISO Metric Thread	øC Max.	K Max. (1)	L Max.	M Max. (1)	N Max.	Clamp Dash Number(1)	Max. Cable Dia. (1)
07	M8 x 1.06H	.640 (16.26)	.790 (20.07)	1.070 (27.18)	.940 (23.88)	1.290 (32.77)	03	.250 (6.35)
08	M10 x 1.06H	.710 (18.03)	.790 (20.07)	1.070 (27.18)	.940 (23.88)	1.290 (32.77)	03	.250 (6.35)
09	M12 x 1.0-6H	.780 (19.81)	.790 (20.07)	1.070 (27.18)	.940 (23.88)	1.290 (32.77)	04	.312 (7.92)
10	M14 x 1.0-6H	.880 (22.35)	.790 (20.07)	1.130 (28.70)	.970 (24.64)	1.380 (35.05)	04	.312 (7.92)
11	M15 x 1.0-6H	.920 (23.37)	.790 (20.07)	1.130 (28.70)	.970 (24.64)	1.380 (35.05)	06	.437 (11.10)
12	M17 x 1.0-6H	1.000 (25.40)	.830 (21.08)	1.210 (30.73)	1.040 (26.42)	1.480 (37.59)	06	.437 (11.10)
14	M19 x 1.0-6H	1.080 (27.43)	.830 (21.08)	1.210 (30.73)	1.040 (26.42)	1.480 (37.59)	08	.562 (14.27)
16	M22 x 1.0-6H	1.200 (30.48)	.840 (21.34)	1.280 (32.51)	1.080 (27.43)	1.580 (40.13)	10	.625 (15.88)
18	M25 x 1.0-6H	1.320 (33.53)	.890 (22.61)	1.360 (34.54)	1.140 (28.96)	1.680 (42.67)	12	.750 (19.05)
20	M28 x 1.0-6H	1.440 (36.58)	.920 (23.37)	1.430 (36.32)	1.210 (30.73)	1.770 (44.96)	16	.937 (23.80)
22	M31 x 1.0-6H	1.560 (39.62)	.950 (24.13)	1.490 (37.85)	1.280 (32.51)	1.870 (47.50)	16	.937 (23.80)
24	M34 x 1.0-6H	1.700 (43.18)	.980 (24.89)	1.550 (39.37)	1.330 (33.78)	1.970 (50.04)	16	.937 (23.80)

(1) If the maximum clamp size is exceeded, the backshell will be a "Style 2" with a transition adapter as shown below. The K and M dimensions will be increased by 1.00 inch (25.4 mm.) maximum.

Style 2 Backshells for Large Diameter Cables

If the cable clamp is larger than the maximum clamp size shown in the table above, the backshell will be supplied with a ***transition adapter*** and a second coupling nut. This type of backshell is called a ***Style 2***. The large diameter of the Style 2 backshell allows it to slide over the cable until the connector is wired and ready for backshell installation. On straight exit backshells, the transition adapter does not affect the length. On 45° and 90° versions the transition adapter adds 1.00 inch (25.4mm) maximum to the backshell length.



Style 2 Backshell

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