

Series 39 EMI+Environmental Backshells

for MIL-DTL-38999 Ser. III/IV Connectors

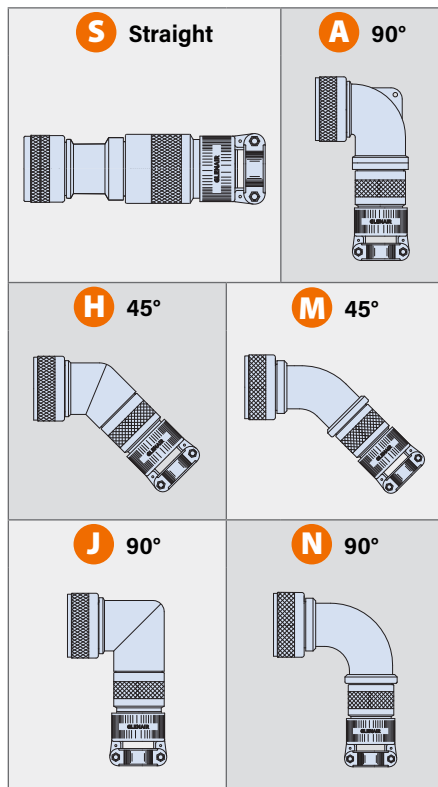
390H*053 EMI+Environmental Backshell, Spin Coupling



Adapter Code **H**

This accessory fits these connectors:
MIL-DTL-38999 Series III and Series IV

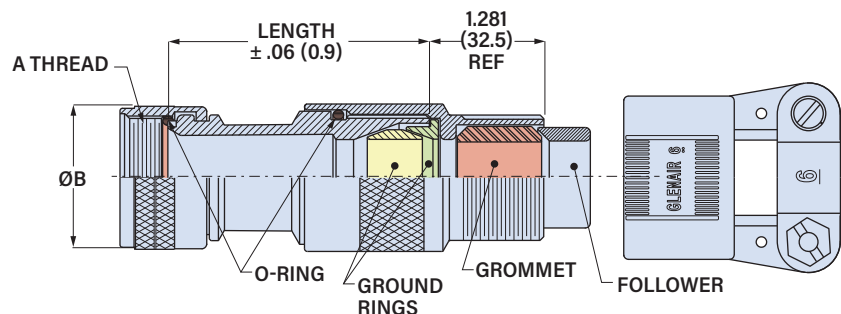
PROFILE SELECTION GUIDE



PART NUMBER

PART NUMBER			390HS053	M	15	10	H	3		
Base P/N	Base Part No.	Profile								
	390HS053	S	Straight							
	390HA053	A	90° Low Profile							
	390HH053	H	45° Cut/Weld							
	390HJ053	J	90° Cut/Weld							
	390HM053	M	45° Full Radius							
Material/Finish	390HN053	N	90° Full Radius							
	M	Alum/ Electroless Nickel								
	MT	Alum/ Nickel-PTFE								
	NF	Alum/ Olive Drab Cadmium								
	ZR	Alum/ Black Zinc-Nickel								
	TZ	Alum/ Tin-Zinc								
ZI	SST/ Passivated (Profiles H, J, M, N, S only)									
Shell Size	Shell Size	9	11	13	15	17	19	21	23	25
	Size Code	A	B	C	D	E	F	G	H	J
Entry Size	Size Code	09	11	13	15	17	19	21	23	25
	Entry Size	Max. Cable Dia.	Shell Size*	Entry Size	Max. Cable Dia.	Shell Size*				
	03	.250 (7.9)	09-25	16	.937 (23.8)	21-25				
	04	.312 (7.9)	11-25	20	1.250 (31.8)	25				
	06	.437 (11.1)	13-25	24	1.375 (34.9)	-				
	08	.562 (14.3)	15-25	28	1.625 (41.3)	-				
10	.625 (15.9)	15-25	32	1.875 (47.6)	-					
12	.750 (19.1)	17-25								
* If selected entry size exceeds shell size range, a Style 2 transition adapter will be included. See <i>Maximum Entry Size</i> for details.										
Strain Relief	H	Saddle Clamp								
	D	Nut	Saddle Clamp				Nut			
Length	3	1.5 inches	Applies to Profile S only.							
	4	2.0 inches	If Entry Size is greater than "Maximum Entry Size" (see next page), then 2 inch							
	6	3.0 inches	minimum applies.							
	8	4.0 inches								

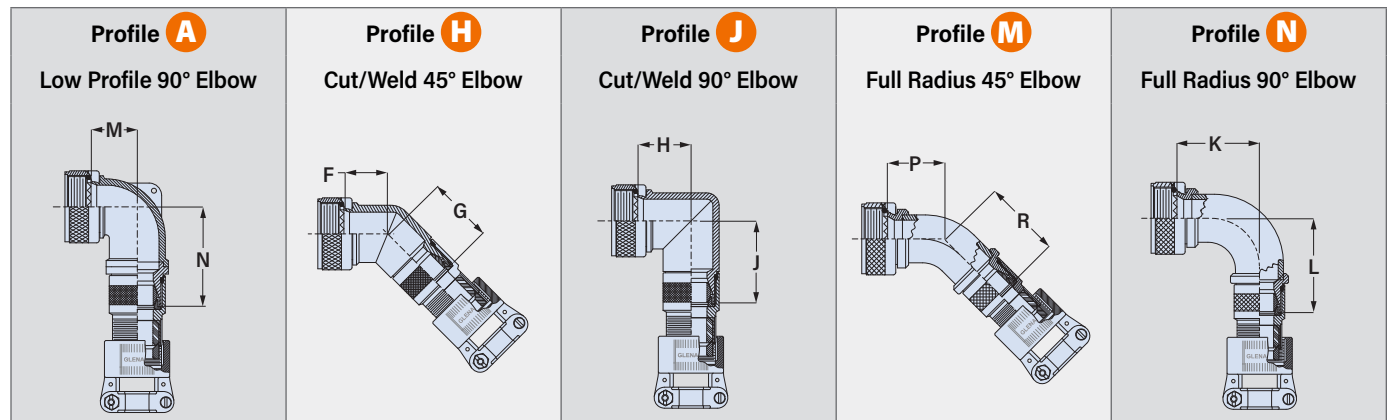
Shell Size	A Thread	øB Max in	mm
9 (A)	M12X1.0-6H	.770	19.6
11 (B)	M15X1.0-6H	.840	21.3
13 (C)	M18X1.0-6H	.960	24.4
15 (D)	M22X1.0-6H	1.090	27.7
17 (E)	M25X1.0-6H	1.230	31.2
19 (F)	M28X1.0-6H	1.360	34.5
21 (G)	M31X1.0-6H	1.480	37.6
23 (H)	M34X1.0-6H	1.600	40.6
25 (J)	M37X1.0-6H	1.720	43.7



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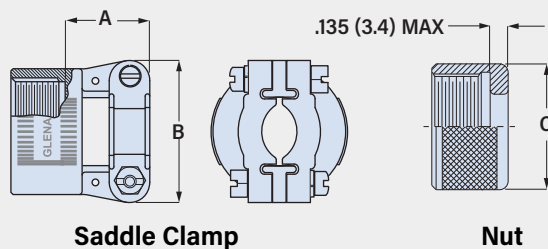
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390H*053 EMI+Environmental Backshell, Spin Coupling



Shell Size	F Max		G Max		H Max		J Max		K Max		L Max		M Max		N Max		P Max		R Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
9 (A)	.639	16.2	1.031	26.2	.750	19.1	1.157	29.4	1.125	28.6	1.287	32.7	.500	12.7	1.420	36.1	.812	20.6	1.095	27.8
11 (B)	.664	16.9	1.063	27.0	.810	20.6	1.217	30.9	1.250	31.8	1.411	35.8	.595	15.1	1.540	39.1	.875	22.2	1.145	29.1
13 (C)	.688	17.5	1.094	27.8	.870	22.1	1.277	32.4	1.375	34.9	1.537	39.0	.610	15.5	1.560	39.6	.938	23.8	1.195	30.4
15 (D)	.705	17.9	1.119	28.4	.920	23.4	1.347	34.2	1.500	38.1	1.761	44.7	.700	17.8	2.154	54.7	1.000	25.4	1.245	31.6
17 (E)	.732	18.6	1.147	29.1	.980	24.9	1.407	35.7	1.625	41.3	1.787	45.4	.885	22.5	2.244	57.0	1.062	27.0	1.300	33.0
19 (F)	.748	19.0	1.157	29.4	1.020	25.9	1.427	36.2	1.750	44.5	1.911	48.5	.975	24.8	2.414	61.3	1.094	27.8	1.350	34.3
21 (G)	.773	19.6	1.177	29.9	1.080	27.4	1.487	37.8	1.875	47.6	2.037	51.7	.975	24.8	2.414	61.3	1.156	29.4	1.400	35.6
23 (H)	.800	20.3	1.217	30.9	1.140	29.0	1.567	39.8	2.000	50.8	2.161	54.9	1.125	28.6	2.587	65.7	1.188	30.2	1.455	37.0
25 (J)	.823	20.9	1.247	31.7	1.200	30.5	1.637	41.6	2.125	54.0	2.287	58.1	1.125	28.6	2.587	65.7	1.250	31.8	1.505	38.1

STRAIN RELIEF DIMENSIONS



Entry Size	A Max		B Max		øC Max		Cable Range			
	in	mm	in	mm	in	mm	Min*	Max	in	mm
03	.780	19.8	.957	24.3	.630	16.0	.125	3.2	.250	6.4
04	.780	19.8	.957	24.3	.755	19.2	.125	3.2	.312	7.9
06	.780	19.8	1.145	29.1	.942	23.9	.250	6.4	.437	11.1
08	.780	19.8	1.332	33.8	1.067	27.1	.312	7.9	.562	14.3
10	.780	19.8	1.332	33.8	1.192	30.3	.350	8.9	.625	15.9
12	.811	20.6	1.551	39.4	1.380	35.1	.500	12.7	.750	19.1
16	.905	23.0	1.770	45.0	1.535	39.0	.625	15.9	.937	23.8
20	1.092	27.7	2.113	53.7	1.848	46.9	.875	22.2	1.250	31.8
24	1.124	28.5	2.363	60.0	2.255	57.3	1.000	25.4	1.375	34.9
28	1.399	35.5	2.770	70.4	2.505	63.6	1.250	31.8	1.625	41.3
32	1.399	35.5	3.020	76.7	2.755	70.0	1.437	36.5	1.875	47.6

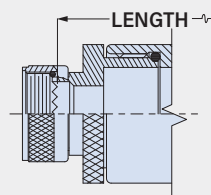
* Not applicable to Style D Nut.

MAXIMUM ENTRY SIZE

If the selected entry size exceeds the maximum size in this table, the backshell will have a front adapter. This is called a **Style 2** backshell.

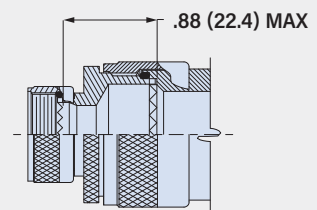
Shell Size	Maximum Entry Size
9 (A)	03
11 (B)	04
13 (C)	06
15 (D)	10
17 (E)	12
19 (F)	12
21 (G)	16
23 (H)	16
25 (J)	20

Style 2 Straight Backshell



The minimum length code increases from 3 (1 1/2 inches) to 4 (2 inches).

Style 2 45° and 90° Backshells



For 45° and 90° backshells, the length increases by .88 inches.