

Series 38 EMI Backshells

for MIL-DTL-38999 Series I/II Connectors

380F*103 EMI Backshell, Spin Coupling



Adapter Code F

This accessory fits these connectors:
MIL-DTL-38999 Series I and Series II

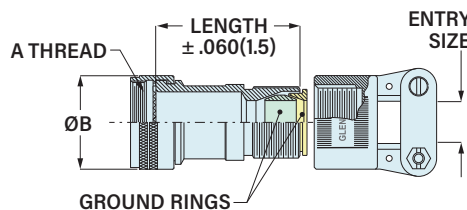
PROFILE SELECTION GUIDE

S Straight	A 90°
B 45°	C 90°
D 90°	F 45°
H 45°	J 90°
M 45°	N 90°

Shielded, Straight, 45° or 90°. 380F*103 backshell fits MIL-DTL-38999 Series I and II connectors. Spin coupling. Cone and ring shield termination. Two ground rings for terminating individual and overall braid shields. Type H heavy duty saddle clamp has stainless steel telescoping fillister head screws and lockwashers. Available in aluminum or stainless steel.

PART NUMBER

		380FS103	M	10	04	H	4			
Base P/N	Base Part No.	Profile								
	380FS103	S	Straight							
	380FA103	A	90° Elbow							
	380FB103	B	45° Elbow							
	380FC103	C	90° Low Prof.							
	380FD103	D	90° Split							
	380FF103	F	45° Split							
	380FH103	H	45° Cut/Weld							
	380FJ103	J	90° Cut/Weld							
	380FM103	M	45° Full Radius							
380FN103	N	90° Full Radius								
Material/Finish	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									
	38999 Series I	9	11	13	15	17	19	21	23	25
	38999 Series II	8	10	12	14	16	18	20	22	24
	Size Code	08	10	12	14	16	18	20	22	24
Entry Size	Entry Size	Max. Cable Dia.	Shell Size*	Entry Size	Max. Cable Dia.	Shell Size*				
	03	.250 (7.9)	08-24	16	.937 (23.8)	20-24				
	04	.312 (7.9)	10-24	20	1.250 (31.8)	24				
	06	.437 (11.1)	12-24	24	1.375 (34.9)	-				
	08	.562 (14.3)	14-24	28	1.625 (41.3)	-				
	10	.625 (15.9)	14-24	32	1.875 (47.6)	-				
	12	.750 (19.1)	16-24							
* If selected entry size exceeds shell size range, a Style 2 transition adapter will be included. See <i>Maximum Entry Size</i> for details.										
⚠ Profile G entry size cannot exceed shell size range listed in table.										
Strain Relief	H	Saddle Clamp								
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 minimum applies.							
	6	3.0 inches								
	8	4.0 inches								



Shell Size	A Thread UNEF-2B	øB Max in	øB Max mm
8/9	0.4375-28	.650	16.5
10/11	0.5625-24	.770	19.6
12/13	0.6875-24	.890	22.6
14/15	0.8125-20	1.020	25.9
16/17	0.9375-20	1.150	29.2
18/19	1.0625-18	1.230	31.2
20/21	1.1875-18	1.360	34.5
22/23	1.3125-18	1.480	37.6
24/25	1.4375-18	1.730	43.9

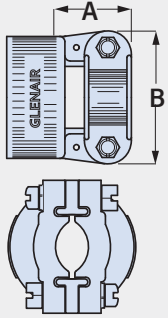


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STRAIN RELIEF DIMENSIONS



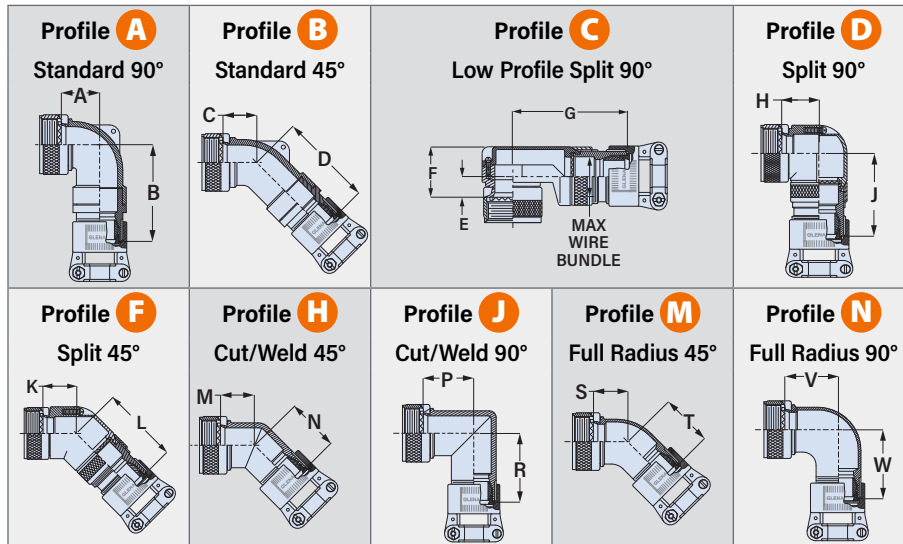
Entry Size	A Max		B Max		Cable Range			
	in	mm	in	mm	Min	Max	Min	Max
03	.780	19.8	.957	24.3	.125	3.2	.250	6.4
04	.780	19.8	.957	24.3	.125	3.2	.312	7.9
06	.780	19.8	1.145	29.1	.250	6.4	.437	11.1
08	.780	19.8	1.332	33.8	.312	7.9	.562	14.3
10	.780	19.8	1.332	33.8	.350	8.9	.625	15.9
12	.811	20.6	1.551	39.4	.500	12.7	.750	19.1
16	.905	23.0	1.770	45.0	.625	15.9	.937	23.8
20	1.092	27.7	2.113	53.7	.875	22.2	1.250	31.8
24	1.124	28.5	2.363	60.0	1.000	25.4	1.375	34.9
28	1.399	35.5	2.770	70.4	1.250	31.8	1.625	41.3
32	1.399	35.5	3.020	76.7	1.437	36.5	1.875	47.6

MAXIMUM ENTRY SIZE

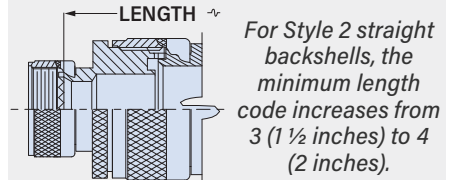
If the selected entry size exceeds the maximum size in this table, the backshell will have a front adapter. This is called a **Style 2** backshell.

Profile C backshells are not available with entry sizes larger than shown in table.

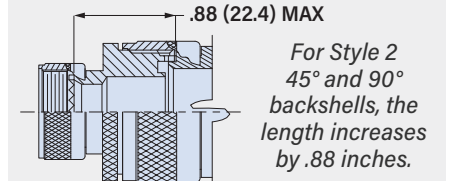
Shell Size	Max. Entry Size	Shell Size	Max. Entry Size
8/9	03	18/19	12
10/11	04	20/21	16
12/13	06	22/23	16
14/15	10	24/25	20
16/17	12		



Style 2 Straight Backshell



Style 2 45° and 90° Backshells



Shell Size	Profile A		Profile B		Profile C				Max Wire Bundle	Profile D										
	A Max in	A Max mm	B Max in	B Max mm	C Max in	C Max mm	D Max in	D Max mm		E Max in	E Max mm	F Max in	F Max mm	G Max in	G Max mm	H Max in	H Max mm	J Max in	J Max mm	
8/9	.500	12.7	1.612	40.9	.457	11.6	1.062	40.7	.340	8.6	.681	17.3	1.780	45.2	.250	6.4	.680	17.3	1.530	38.9
10/11	.595	15.1	1.732	44.0	.520	13.2	1.662	42.2	.270	6.9	.731	18.6	1.940	49.3	.375	9.5	.750	19.1	1.590	40.4
12/13	.610	15.5	1.752	44.5	.582	14.8	1.722	43.7	.270	6.9	.731	18.6	1.940	49.3	.375	9.5	.810	20.6	1.660	42.2
14/15	.700	17.8	2.072	52.6	.645	16.4	2.062	52.4	.280	7.1	.831	21.1	2.010	51.1	.500	12.7	.870	22.1	1.690	42.9
16/17	.885	22.5	2.162	54.9	.738	18.7	2.172	55.2	.420	10.7	.981	24.9	2.060	52.3	.625	15.9	.930	23.6	1.790	45.5
18/19	.975	24.8	2.332	59.2	.926	23.5	2.362	60.0	.640	16.3	1.181	30.0	2.090	53.1	.625	15.9	1.000	25.4	1.850	47.0
20/21	.975	24.8	2.332	59.2	.926	23.5	2.362	60.0	.640	16.3	1.181	30.0	2.090	53.1	.625	15.9	1.060	26.9	1.910	48.5
22/23	1.125	28.6	2.442	62.0	1.020	25.9	2.512	63.8	.540	13.7	1.181	30.0	2.240	56.9	.750	19.1	1.120	28.4	1.970	50.0
24/25	1.125	28.6	2.442	62.0	1.020	25.9	2.512	63.8	.540	13.7	1.181	30.0	2.240	56.9	.750	19.1	1.180	30.0	2.030	51.6

Shell Size	Profile F		Profile H		Profile J		Profile M		Profile N											
	K Max in	K Max mm	L Max in	L Max mm	M Max in	M Max mm	N Max in	N Max mm	P Max in	P Max mm	R Max in	R Max mm	S Max in	S Max mm	T Max in	T Max mm	V Max in	V Max mm	W Max in	W Max mm
8/9	.440	11.2	1.590	40.4	.639	16.2	1.015	25.8	.750	19.1	1.125	28.6	.812	20.6	.875	22.2	1.125	28.6	1.188	30.2
10/11	.500	12.7	1.650	41.9	.664	16.9	1.045	26.5	.810	20.6	1.185	30.1	.875	22.2	.938	23.8	1.250	31.8	1.312	33.3
12/13	.560	14.2	1.720	43.7	.688	17.5	1.065	27.1	.870	22.1	1.245	31.6	.938	23.8	1.000	25.4	1.375	34.9	1.438	36.5
14/15	.620	15.7	1.750	44.5	.705	17.9	1.095	27.8	.920	23.4	1.315	33.4	1.000	25.4	1.062	27.0	1.500	38.1	1.562	39.7
16/17	.680	17.3	1.850	47.0	.732	18.6	1.115	28.3	.980	24.9	1.375	34.9	1.062	27.0	1.125	28.6	1.625	41.3	1.688	42.9
18/19	.750	19.1	1.910	48.5	.748	19.0	1.125	28.6	1.020	25.9	1.395	35.4	1.094	27.8	1.156	29.4	1.750	44.5	1.812	46.0
20/21	.820	20.8	1.970	50.0	.773	19.6	1.145	29.1	1.080	27.4	1.445	36.7	1.156	29.4	1.219	31.0	1.875	47.6	1.938	49.2
22/23	.880	22.4	2.030	51.6	.800	20.3	1.185	30.1	1.140	29.0	1.535	39.0	1.188	30.2	1.250	31.8	2.000	50.8	2.062	52.4
24/25	.940	23.9	2.090	53.1	.823	20.9	1.215	30.9	1.200	30.5	1.605	40.8	1.250	31.8	1.312	33.3	2.125	54.0	2.188	55.6