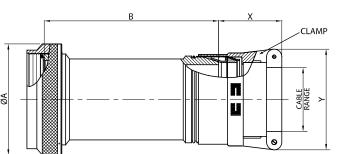
Environmental EMI/RFI Backshell

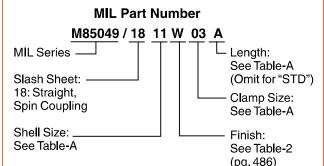
Amphenol

Straight, Spin Coupling

For Connector Family L

38999 Series III, IV Connector Family "L", includes MIL-DTL-38999 Series III and Series IV





III
HD
Dualok
II
I
SJT
Accessories
Aquacon
Herm/Seal
PCB

38999

Optics	Fiber	High
Contacts		Speed

EMI Filter Transient

82 83723 III

26500

5015 Trimp Rear Release

Back-Shells

Others

												(pg. 486)				
					TA	BLE -	A									
MIL PART NUMI				(CABLE		E A DIA. (MAX) B (MAX					X) X (MAX)			Y (MAX)	
CONNECTOR			SHELL SIZE/		IN		AX	INCH	мм	INCH	ММ	INCH	мм	INCH	мм	
SHELL SIZE	SIZE 01	STD.	CODE (REF.)	0.06	MM 1.57	INCH 0.13	MM 3.18			1.53	38.86	1.25	31.75	0.80	20.32	
9	02	A STD.	09/A	0.13	3.18	0.25	6.35	0.75	19.05	2.53 1.53	64.26 38.86	1.25	31.75	1.00	25.40	
		A STD.								2.53 1.53	64.26 38.86					
	01	A STD.		0.06	1.57	0.13	3.18			2.53 1.53	64.26 38.86	1.25	31.75	0.80	20.32	
11	02	Α	11/B	0.13	3.18	0.25	6.35	0.85	21.59	2.53	64.26	1.25	31.75	1.00	25.40	
	03	STD.		0.25	6.35	0.38	9.53			1.53 2.53	38.86 64.26	1.25	31.75	1.10	27.94	
	02	STD. A		0.13	3.18	0.25	6.35			1.53 2.53	38.86 64.26	1.25	31.75	1.00	25.40	
13	03	STD. A	13/C	0.25	6.35	0.38	9.53	1.00	25.40	1.53 2.53	38.86 64.26	1.25	31.75	1.10	27.94	
	04	STD.		0.38	9.53	0.50	12.70			1.53	38.86 64.26	1.25	31.75	1.20	30.48	
	00	STD.		0.13 3.18		0.05	0.05			1.53	38.86	4.05	04.75	1,00	05.40	
	02	A B			0.25	6.35			2.53 3.53	64.26 89.66	1.25	31.75	1.00	25.40		
	03	STD. A B		0.25	6.35	0.38	9.53	1.15	29.21	1.53 2.53 3.53	38.86 64.26 89.66	1.25	31.75	1.10	27.94	
15	04	STD.	15/D	0.38	9.53	0.50	12.70			1.53 2.53	38.86 64.26	1,25	31.75	1,20	30.48	
	04	В		0.36	9.55	0.50	12.70				3.53	89.66	1.25	51.75	20	30.40
	05	STD.		0.50	12.70	0.63	15.88			1.53 2.53	38.86 64.26	1.31	33.27	1.25	31.75	
		B STD.								3.53 1.53	89.66 38.86					
	02	A B		0.13	3.18	0.25	6.35			2.53	64.26 89.66	1.25	31.75	1.00	25.40	
	0.5	STD.			0.5-		0.55			3.53 1.53	38.86		04 ==		0= 0	
	03	A B		0.25	6.35	0.38	9.53			2.53 3.53	64.26 89.66	1.25	31.75	1.10	27.94	
17	04	STD.	17/E	0.38	9.53	0.50	12.70	1.25	31.75	1.53 2.53	38.86 64.26	1.25	31.75	1.20	30.48	
	05	B STD.		0.50	12.70	0.63	15.88			3.53 1.53	89.66 38.86 64.26	1.31	33.27	1.25	31.75	
	US	A B		0.50	12.70	0,63	13.88			2.53 3.53	89.66	1.31	აა.∠/	1.25	31./5	
	06	STD. A B		0.63	15.88	0.75	19.05			1.53 2.53 3.53	38.86 64.26 89.66	1.38	35.05	1.40	35.56	

Note: For more cable entry and length options, email: sales@backshellworld.com All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

Amphenol

Environmental EMI/RFI Backshell Straight, Spin Coupling, cont.

For Connector Family L

38999 Series III, IV

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV

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22992		ass L		
5015	Crimp Rear Release	Matrix		
26500		Pyle		
83723		Matrix Pyle		
26482		Matrix 2		
EMI Filter	Transient			
High S		Contacts		
peed	Fiber	Optics		
	<u> </u>	CR		
Hei	rm/S			
A	quad	on		
/cce	essoi	ies		
	S	JT		
		<u>"</u>		•
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MIL PART NUME	BER DES	IGNATOR	CONNECTOR	(TABL	E – A, d RANGI		A DIA.	(MAX)	B (N	IAX)	X (N	IAX)	Y (N	IAX)		
CONNECTOR	CLAMP	LENGTH	SHELL SIZE/	М	IN	M	ΑX	INCH	ММ	INCH	ММ	INCH	мм	INCH	мм		
SHELL SIZE	SIZE	STD.	CODE (REF.)	INCH	MM	INCH	MM			1.53	38.86						
	03	A A		0.25	6.35	0.38	9.53			2.53	64.26	1.25	31.75	1.10	27.94		
		В								3.53	89.66						
	0.4	STD.		0.00	0.50	0.50	40.70			1.53	38.86	4.05	04.75	4 00	00.40		
	04	A B		0.38	9.53	0.50	12.70			2.53 3.53	64.26 89.66	1.25	31.75	1.20	30.48		
		STD.								1.53	38.86						
19	05	A	19/F	0.50	12.70	0.63	15.88	1.40	35.56	2.53	64.26	1.31	33.27	1.25	31.75		
-		B STD.								3.53 1.53	89.66 38.86						
	06	A		0.63	15.88	0.75	19.05			2.53	64.26	1.38	35.05	1.40	35.56		
		В								3.53	89.66						
	07	STD.		0.75	40.05	0.00	00.00			1.53	38.86	4.50	00.40	4.50	00.40		
	07	A B		0.75	19.05	0.88	22.23			2.53 3.53	64.26 89.66	1.50	38.10	1.50	38.10		
		STD.								1.53	38.86						
	03	Α		0.25	6.35	0.38	0.38 9.53			2.53	64.26	1.25	31.75	1.10	27.94		
		B C								3.53 4.53	89.66 115.06						
		STD.								1.53	38.86						
	04	Α		0.38	9.53	0.50	0.50 12.70	.70		2.53	64.26	1.25	31.75	1.20	30.48		
	04	В		0.36						3.53	89.66	_		1.20	00.40		
		C STD.								4.53 1.53	115.06 38.86						
	0.5	A		0.50	40.70	0.62 15.00			2.53	64.26	1.31	00.07	4.05	04 75			
	05	В		0.50	12.70	0.63	15.88			3.53	89.66	1.31	33.27	1.25	31.75		
21		C STD.	21/G					1.55	39.37	4.53 1.53	115.06 38.86	6					
		A A								2.53	64.26						
	06	В		0.63	3 15.88	15.88	8 0.75	0.75 19.0	19.05			3.53	89.66	1.38	35.05	1.40	35.56
		С								4.53	115.06						
		STD.										1.53 2.53	38.86 64.26				
	07	В		0.75	19.05	0.88	22.23			3.53	89.66	1.50	38.10		38.10		
		С								4.53	115.06						
		STD.								1.53	38.86						
	80	A B		0.88	22.23	1.00	25.40			2.53 3.53	64.26 89.66	1.63	41.40		41.91		
		C		115.06													
		STD								1.53	38.86						
	03	A B		0.25	6.35	0.38	9.53			2.53 3.53	64.26 89.66	1.25	31.75	1.10	27.94		
		С								4.53	115.06						
		STD.								1.53	38.86						
	04	A		0.38	9.53	0.50	12.70			2.53	64.26	1.25	31.75	1.20	30.48		
		B C								3.53 4.53	89.66 115.06						
23		STD.	23/H					1.65	41.91	1.53	38.86						
	05	Α		0.50	12.70	0.63	15.88			2.53	64.26	1.31	33.27	1.25	31.75		
		B C		3.00		0.63	.0.00			3.53	89.66		30127		, 5		
		STD.					+	-		4.53 1.53	115.06 38.86						
	06	A		0.63	15.88	0.75	19.05			2.53	64.26	1.38	35.05	1.40	35.56		
	UO	В		0.03	10.00	0.75	19.03			3.53	89.66		35.05	1.40	33.36		
Note: For more ca	المام ماما	C				اداد مینادا					115.06 TABLE (

Note: For more cable entry and length options, email: sales@backshellworld.com All dimensions for reference only.

Environmental EMI/RFI Backshell

Amphenol

Straight, Spin Coupling, cont.

For Connector Family L

38999 Series III, IV

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV

					TABL	E – A, d	cont.									
MIL PART NUM			CONNECTOR	(CABLE			A DIA. (MAX) B (MAX)				X (N	IAX)	Y (MAX)		
CONNECTOR					IN		ΑX	INCH	мм	INCH	мм	INCH	ММ	INCH	мм	
SHELL SIZE	SIZE	CODE	CODE (REF.)	INCH	ММ	INCH	MM									
		STD.								1,53	38.86					
	07	A		0.75	19.05	0.88	22.23			2.53	64.26	1.50	38.10	1.50	38.10	
		В								3.53	89.66					
		С								4.53	115.06					
		STD.								1.53	38.86 64.26					
23, cont.	08	A B	23 / H	0.88	22.23	1.00	25.40	1.65	41.91	2.53 3.53	89.66	1.63	41.40	1.65	42.91	
		С								4.53	115.06					
		STD.								1.53	38.86					
		A A								2.53	64.26					
	09	В		1.00	25.40	1.13	28.58			3.53	89.66	1.63	41.40	1.75	44.45	
		С								4.53	115.06					
		STD.								1.53	38.86					
		A								2.53	64.26					
	04	В		0.38	9.53	0.50	12.70			3.53	89.66	1.25	31.75	1.20	30.48	
		С								4.53	115.06					
		STD.								1.53	38.86	1.31	33.27			
		Α			40.70		0.63 15.88			2.53	64.26					
	05	В		0.50	12.70	0.63				3.53	89.66			1.25	31.75	
		C								4.53	115.06					
		STD.		0.00	0.00						1.53	38.86				
	00	Α				0.60	15.00	0.75	10.05			2.53	64.26	1.00	35.05	1.40
	06	В		0.63	15.88	0.75	19.05			3.53	89.66	1.38	35.05	1.40	35.56	
		С								4.53	115.06	1				
		STD.								1.53	38.86			1.50		
25	07	Α	25/J	0.75	19.05	0.88	22.23	1.85	46.99	2.53	64.26	1.50	38.10		38.10	
25	07	В	23/0	0.73	19.03	0.00	22.23	1.05	40.33	3.53	89.66		36.10		30.10	
		С								4.53	115.06					
		STD.								1.53	38.86					
	08	Α		0.88	22.23	1.00	25.40			2.53	64.26	1.63	41.40	1.65	41.91	
	00	В		0.00	22.20	1.00	25.40			3.53	89.66	1.00	71.40	1.00	11.51	
		С								4.53	115.06					
		STD.								1.53	38.86					
	09	Α		1.00	25.40	1.13	28.58			2.53	64.26	1.63	41.40	1.75	44.45	
	В				'				3.53	89.66			3	'		
		С								4.53	115.06					
		STD.								1.53	38.86					
	10	A		1.13	28.58	1.25	31.75			2.53	64.26	1.63	41.40	1.90	48.26	
		В								3.53	89.66					
		С								4.53	115.06					

Note: For more cable entry and length options, email: sales@backshellworld.com All dimensions for reference only.

III
HD
Dualok
II
I
SJT
Accessories
Aquacon
Herm/Seal

High Speed
Fiber Contact

EMI Filter Transient

26482

83723

5015 Crimp Re Release

22992

Back-Shells

Options Others

Amphenol

Backshells

Materials & Finishes, Assembly Torque Values,

Style-2 Configuration

389991

HD

П

SJT Accessories

Aquacon Herm/Seal

Fiber Optics

lter FIIG

26482 E

2650

501 5 Crimp Rear Release Martic

acknells

Options Others

MATERIALS & FINISHES

Amphenol offers adapters in the following standard finishes. The base material is aluminum alloy.

MATERIAL:

Aluminum parts: As per ASTM B 211, 221, 209, 85, 26

Steel parts: 300 series, as per AMS-QQ-S-763/ASTM A 582

Elastomers: Fluro Silcon, Silicon

Other parts: Suitable corrosion resistant material

MIL (QPL) QUALIFICATION

Many Amphenol Backshells are qualified to SAE-AS 85049 standard. (Old standard is MIL-C-85049).

TABLE-2 (PLATING FINISHES)

Amphenol Designation	MIL Designation	Finish	Guiding Specifications/Requirements
Α	Α	Anodize, Black*	To meet AS85049 requirements
В		Anodize, Hard*	AMS-A-8625, Type-III, Class-1
L		Nickel, Bright	AMS-QQ-290, Class-1, Grade-F
М		Electroless Nickel	AMS-C-26074, Class-4, Grade-B
N	N	Electroless Nickel	To meet AS85049 requirements
Т		Cadmium, Bright	AMS-QQ-P-416, Type-I, Class-2
U		Cadmium, Olive drab	AMS-QQ-P-416, Type II, Class 3
V		Cadmium, Olive drab over Electroless Nickel	AMS-QQ-P-416, Type-II, Class-3 (Cadmium); AMS-C-26074, Class-4, grade-B (Nickel)
W	W	Cadmium, Olive drab over Electroless Nickel	To meet AS85049 requirements
Υ		Zinc-Cobalt, Dark Olive drab	ASTM-B840
Z		Zinc-Cobalt, Black	ASTM-B840

For availability of other finishes, email your special requirements: email: sales@backshellworld.com

* Non conductive coatings.

ASSEMBLY TORQUE VALUES

Amphenol recommends the following torque values for its adapters while assembling them to the connectors. These values are based on the coupling thread strength specified in SAE-AS85049 standard.

Connector Shell Size	Torque (Inch-Pounds)
8, 9	40
3, 10, 10SL, 11	40
7, 12, 12S, 13	40
14, 14S, 15	40
16, 16S, 17	40
18, 19, 27	40
20, 21, 37	80
22, 23	80
24, 25, 61	80
28	100
32	100
36	100
40	120
44	120
48	120

STYLE-2 CONFIGURATION

Some design consideration will require bigger diameter cable to be terminated in the smaller shell size connectors. Cable with heavy/thicker shielding, many wires for different branches/ routing are some of the examples. Such cable termination will require a bigger adapter body with cable entry dimensions more than the connector rear side dimensions Amphenol also supports this kind of application. The coupling end of the adapter will be modified to Style-2 design as shown in the figure below in such cases. The overall length of the Style-2 design adapters would be increased by approx. 1 inch (25.mm) as shown. This alternative design is applicable for all the Backshell Families listed in this catalog.

