BACKSHELLS

Have a Connector? We've Got Your Back!

BACKSHELLS OVERVIEW

Type	Military P/N	Amphenol P/N	Family	Angle	Finish
Backshells	M85049/82	BL1SSJ	Band Lock	Straight	N,P,W,Z,ZP
Backshells	M85049/83	BL1BSJ	Band Lock	45°	N,P,W,Z,ZP
Backshells	M85049/84	BL1ASJ	Band Lock	90°	N,P,W,Z,ZP
Backshells	M85049/85	BL1SSK	Band Lock	Straight	N,P,W,Z,ZP
Backshells	M85049/86	BL1BSK	Band Lock	45°	N,P,W,Z,ZP
Backshells	M85049/87	BL1ASK	Band Lock	90°	N,P,W,Z,ZP
Backshells	M85049/88	BL1SSL	Band Lock	Straight	N,P,W,Z,ZP
Backshells	M85049/89	BL1BSL	Band Lock	45°	N,P,W,Z,ZP
Backshells	M85049/90	BL1ASL	Band Lock	90°	N,P,W,Z,ZP
Backshells	M85049/93	BS021	Composite	-	T
Backshells	M85049/91	BS021	Composite Strain Relief	Straight	T
Backshells	M85049/92	BS021	Composite Strain Relief	90°	T
Backshells	M85049/20	BC2SRL	Crimp Ring Adapter	Straight	N,W,Z
Backshells	M85049/26-1	BC2SRJ	Crimp Ring Adapter	Straight	N,W,Z
Backshells	M85049/26-2	BC3XXX	Crimp Ring Adapter	Straight	N,W,Z
Backshells	M85049/26-3	BC1SRJ	Crimp Ring Adapter	Straight	N,W,Z
Backshells	M85049/33-1	BC2SRK	Ring Adapter	-	N,W,Z
Backshells	M85049/7	BE1BRJ	Environmental	45°	N,W,Z
Backshells	M85049/9	BE1ARJ	Environmental	90°	N,W,Z
Backshells	M85049/11	BE1SRJ	Environmental	Straight	N,W,Z
Backshells	M85049/6	BV1BRJ	Environmental EMI/RFI	45°	N,W,Z
Backshells	M85049/8	BV1ARJ	Environmental EMI/RFI	90°	N,W,Z
Backshells	M85049/10	BV1SRJ	Environmental EMI/RFI	Straight	N,W,Z
Backshells	M85049/17	BV1SDK	Environmental EMI/RFI	Straight	N,W,Z
Backshells	M85049/18	BV1SRL	Environmental EMI/RFI	Straight	N,W,Z
Backshells	M85049/76	BV1ARK	Environmental EMI/RFI	45°	N,W,Z
Backshells	M85049/77	BV1BRK	Environmental EMI/RFI	90°	N,W,Z
Backshells	M85049/78	BV1BRL	Environmental EMI/RFI	45°	N,W,Z
Backshells	M85049/79	BV1ARL	Environmental EMI/RFI	90°	N,W,Z
Backshells	M85049/19	BM1SRL	Non-Environmental	Straight	N,W,Z
Backshells	M85049/21	BN1SRL	Non-Environmental	Straight	N,W,Z
Backshells	M85049/29	BN1SDK	Non-Environmental	Straight	A,N,W,Z
Backshells	M85049/23	BM1BRJ	Non-Environmental EMI/RFI	45°	N,W,Z
Backshells	M85049/24	BM1ARJ	Non-Environmental EMI/RFI	90°	N,W,Z
Backshells	M85049/25	BM1SRJ	Non-Environmental EMI/RFI	Straight	N,W,Z
Backshells	M85049/36	BM1SDK	Non-Environmental EMI/RFI	Straight	N,W,Z
Backshells	M85049/109	BH1SRJ	Pre-Shield Adapter	Straight	N,W,Z
Backshells	M85049/111	BH1ARJ	Pre-Shield Adapter	90°	N,W,Z
Backshells	M85049/112	BH1SRK	Pre-Shield Adapter	Straight	N,W,Z
Backshells	M85049/114	BH1ARK	Pre-Shield Adapter	90°	N,W,Z
Backshells	M85049/115	BH1SRL	Pre-Shield Adapter	Straight	N,W,Z

BACKSHELLS OVERVIEW

Type	Military P/N	Amphenol P/N	Family	Angle	Finish
Backshells	M85049/117	BH1ARL	Pre-Shield Adapter	90°	N,W,Z
Backshells	M85049/15	BQIBRL	Tie Wrap	45°	A,N,W,Z
Backshells	M85049/16	BQ1ARL	Tie Wrap	90°	A,N,W,Z
Backshells	M85049/53	BQ1SRJ	Tie Wrap	Straight	A,N,W,Z
Backshells	M85049/54	BQ1BRJ	Tie Wrap	45°	A,N,W,Z
Backshells	M85049/55	BQ1ARJ	Tie Wrap	90°	A,N,W,Z
Backshells	M85049/56	BQ1SRK	Tie Wrap	Straight	A,N,W,Z
Backshells	M85049/57	BQ1BRK	Tie Wrap	45°	A,N,W,Z
Backshells	M85049/63	BQ1ARK	Tie Wrap	90°	A,N,W,Z
Backshells	M85049/60-1	BB1SRJ	Shrink Boot Adapter	Straight	A,N,W,Z
Backshells	M85049/60-2	BB2SRJ	Shrink Boot Adapter	Straight	A,N,W,Z
Backshells	M85049/62	BB1SRK	Shrink Boot Adapter	Straight	A,N,W,Z
Backshells	M85049/69	BB1SRL	Shrink Boot Adapter	Straight	A,N,W,Z
Backshells	M85049/38	BS1SRL	Strain Relief Clamp	Straight	A,N,W
Backshells	M85049/39	BS1ARL	Strain Relief Clamp	90°	A,N,W
Backshells	M85049/41	MS3057	Strain Relief Clamp	Straight	W
Backshells	M85049/42	-	Strain Relief Clamp	Straight	N,W,Z
Backshells	M85049/43	BS1BRJ	Strain Relief Clamp	45°	A,N,W,Z
Backshells	M85049/47	BS1ARK	Strain Relief Clamp	90°	N,W
Backshells	M85049/49-2	BS1SRK	Strain Relief Clamp	Straight	A,N,W
Backshells	M85049/51	BS1ARJ	Strain Relief Clamp	90°	A,N,W
Backshells	M85049/52	BS1SRJ	Strain Relief Clamp	Straight	A,N,W
Backshells	M85049/118	BS014SSJ	Strain Relief Clamp	Straight	N,W,Z
Backshells	M85049/120	BS014ASJ	Strain Relief Clamp	90°	A,N,W,Z
Backshells	M85049/121	BS014SSK	Strain Relief Clamp	Straight	A,N,W,Z
Backshells	M85049/123	BS014ASK	Strain Relief Clamp	90°	A,N,W,Z
Backshells	M85049/124	BS014SS	Strain Relief Clamp	Straight	A,N,W,Z
Backshells	M85049/126	BS014ASL	Strain Relief Clamp	90°	A,N,W,Z
Backshells	M85049/147	-	Strain Relief Clamp	Straight	A,N,W,Z
Backshells	-	BEL1SS	Alumalight- Environmental	Straight	W, N
Backshells	-	BLL1SS	Alumalight-Band Lock	Straight	W, N
Backshells	-	BLL1AS	Alumalight-Band Lock	90°	W, N
Backshells	-	BLL1BS	Alumalight-Strain Relief	45°	W, N
Backshells	-	BML1SS	Alumalight-Strain Relief	Straight	W, N
Backshells	-	BML1AS	Alumalight-Strain Relief	90°	W, N

HOW TO SELECT A BACKSHELL

1. Select the Backshell Family (pgs. 6-7; i.e. Non-Environmental Backshell)

2. Select Angle (pg. 8; i.e. Straight)

3. Select Coupling Style (pg. 8; i.e. Spin)

In order to complete steps 4-9, you must know the connector specification. For example, we'll use connector D38999/26WB35PN to walk through the remaining steps of selecting a backshell.

4. Select Connector Group Code based on your connector specifications (pgs.10-14; i.e. L)

5. Select material and finish option (pg. 15; i.e. Cadmium Olive Drab over Electroless Nickel)

*Recommended to follow the same finish as connector

In order to complete step 7, you must know the actual cable diameter. For example, we'll use the cable diameter of 0.20 inches to walk through the remaining steps of selecting a backshell.

6. Determine the clamp size by using the table on the Backshell product page, see full catalog for more. (pg. 5)

7. If applicable, determine backshell length using the table on the Backshell product page see full catalog for more. (pg. 5)

8. Build a part number based on the selections you made (pg.5; i.e. M85049/2111W02A)

*Contact Amphenol Pcd if you can not find your preferences to meet your application, we may be able to support under priority part number

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Cross Reference

If you have a Military part number or other manufacturer's part number for which you are looking for an equivalent item, we have provided a cross-reference on our web link: http://www.backshellworld.com/crossreference.aspx

Customize

Backshells for Military & Aerospace applications are governed by SAE, AS85049 standard and Amphenol Backshells are designed to meet the requirement of this standard. Though this standard covers the most popular styles of backshells, many applications call for additional styles and designs. Here is where the capability of Amphenol can support you from the concept to product realization and thereby your unique specification need is satisfied.

Please visit our web link for further help: http://www.backshellworld.com/customdesign.asp

STRAIGHT, SPIN COUPLING

38999 Series III, IV

M85049	/21	11	W	02	A
SERIES	SLASH SHEET	ACCESSORY SHELL SIZE	FINISH	CLAMP SIZE	LENGTH
	21: Straight	Table A	N: Electroless Nickel W: Cadmium Olive Drab Z: Black Zinc Nickel	Table A	Table A Omit for "STD"

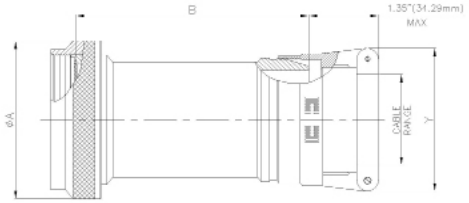


TABLE A

Accessory Shell Size	Clamp Size	Length	Connector Shell Size	Cable Range Min. inch	Cable Range Min. mm	Cable Range Max. inch	Cable Range Max. mm	A Ø Max. inch	A Ø Max. mm	B Ø Max. inch	B Ø Max. mm	Y Max. inch	Y Max. mm
9	01	STD.	9 / A	0.06	1.57	0.13	3.18	0.75	19.05	1.53	38.86	0.80	20.32
		A								2.53	64.26		
	02	STD.		0.13	3.18	0.25	6.35			1.53	38.86	1.00	25.40
		A								2.53	64.26		
11	01	STD.	11 / B	0.06	1.57	0.13	3.18	0.85	21.59	1.53	38.86	0.80	20.32
		A								2.53	64.26		
	02	STD.		0.13	3.18	0.25	6.35			1.53	38.86	1.00	25.40
		A								2.53	64.26		
	03	STD.		0.25	6.35	0.38	9.53			1.53	38.86	1.10	27.94
		A								2.53	64.26		
13	02	STD.	13 / C	0.13	3.18	0.25	6.35	1.00	25.40	1.53	38.86	1.00	25.40
		A								2.53	64.26		
	03	STD.		0.25	6.35	0.38	9.53			1.53	38.86	1.10	27.94
		A								2.53	64.26		
	04	STD.		0.31	7.92	0.50	12.70			1.53	38.86	1.20	30.48
		A								2.53	64.26		
15	02	STD.	15 / D	0.13	3.18	0.25	6.35	1.10	27.94	1.53	38.86	1.00	25.40
		A								2.53	64.26		
		B								3.53	89.66		
	03	STD.		0.25	6.35	0.38	9.53			1.53	38.86	1.10	27.94
		A								2.53	64.26		
		B								3.53	89.66		
	04	STD.		0.31	7.92	0.50	12.70			1.53	38.86	1.20	30.48
		A								2.53	64.26		
		B								3.53	89.66		
	05	STD.		0.44	11.10	0.63	15.88			1.53	38.86	1.25	31.75
		A								2.53	64.26		
		B								3.53	89.66		
17	02	STD.	17/E	0.13	3.18	0.25	6.35	1.25	31.75	1.53	38.86	1.00	25.40
		A								2.53	64.26		
		B								3.53	89.66		
	03	STD.		0.25	6.35	0.38	9.53			1.53	38.86	1.10	27.94
		A								2.53	64.26		
		B								3.53	89.66		
	04	STD.		0.31	7.92	0.50	12.70			1.53	38.86	1.20	30.48
		A								2.53	64.26		
		B								3.53	89.66		

BACKSHELL TYPE

Amphenol Backshells are available in several different types, designed for optimum performance in the application or environment it will be used in. For example, in ground and naval applications, the robustness and environmental sealing may be more important, weight may be the prime consideration for Space and Aerospace applications. The following overview explains the various families of Amphenol Backshells with its applications. Some families of backshells shown here can be used without any additional protection. Some other types of backshells shown are generally used with heat shrink boots or similar protection/strain relief mechanisms depending upon the specific requirements. Also, there are some clamps & nuts for the applications where varying degrees of strain reliefs and cable holding will suffice and weight savings is of higher importance.

Non-Environmental Backshell

Effective cable holding mechanism with good strain relief when the environmental protection of the cable termination area is not a concern. Amphenol offers cost- effective solutions by eliminating extra sealing parts. Suitable for an inside-the -box/climate controlled room application where heavy cabling should be supported with adequate strain relief.

*Example shown on pg. 4

Environmental Backshell

Not only provide the cable support and strain relief, but ensure the cable sealing and environment protection by means of high quality sealing grommet and grommet follower. The strain relief nut is tightened, squeezing the grommet onto the cable jacket during assembly. Provides 6 feet water sealing protection when used with perfectly jacketed cable, and suitable for harsh environment applications.

Non-Environmental EMI/RFI Backshell

Offering 360-degree electromagnetic and radio frequency noise isolation shielding in addition to standard features available with the Non-Environmental type. Available in straight, 90 degree and 45 degree varieties. Accommodates both individual and overall shielding.

Environmental EMI/RFI Backshell

Ideal choice for heavy duty cabling solutions in harsh environments where electromagnet and radio frequency noises are to be isolated. Accommodates both individual and overall shielding.

Shrink Boot Adapter

A good solution when the unshielded cables are terminated with heat shrink boots. It has a groove where the boot lip can be held which provides good grip apart from sufficient space inside for the cable looping. Using the heat shrink boot is one way of providing environmental protection and strain relief to cable termination. Using a suitable adapter is essential to ensure the repair ability.

Crimp Ring Adapter

Many cable terminations where heat shrink boots are used; will require provision for terminating the screens, too. It is achieved in this type of backshell through a ring, which can be crimped to the backshell body holding the screens in between.

BACKSHELL TYPE

Band Lock Adapter

A high quality band will do the job with this backshell. Tempered bands are tightened over the shields, which are pulled over the banding area using a special assembly tool. Suitable over cover by heat shrink boot or some other method as chosen by the designer could be used. Both crimp ring and banded terminations give a low DC resistance.

Pre-Shield Adapter

This adapter comes with a pre-cut braid that is fitted to the adapter for easy assembly. The braid overlaps with the cable braid. Effective shielding takes place due to the 360° contact of the braid. Designed to accept heat shrink boot. Ease of assembly saves time for cable termination.

SQ Adapter

The SQ adapter is a cost-effective way to terminate the braid to the adapter. The braid is pulled over the conical shape to the rear end of the adapter and then tied. The end nut is tightened to ensure adequate grip for the shielding. A heat shrink boot can be used with this adapter as well.

Strain Relief Clamps

If environmental protection is not a concern and weight savings is a major consideration this strain relief clamp is what you need. It secures and “tidys-up” the light/medium cable and also provides good strain relief at the termination area.

Lamp Thread Adapter

An adapter with threads similar to that in the lamp base for shield termination. An effective, easy and quick method of shield termination and field maintenance. Termination area can accept a nut as well as a clamp. The nut option enables the use of heat shrink boot and the clamp option will facilitate the strain relief clamping without heat shrink boot after the shield/cable termination.

Tie Wrap

A light weight clamp used for securing and “tidying up” cable into a desired direction. Used in interior wiring of aircraft.

Composite

Designed to provide strain relief, support weight saving initiatives and can withstand severe corrosive environments. This mix of durability and weight savings creates a lightweight, high performing backshell ideally suited for the commercial air market.

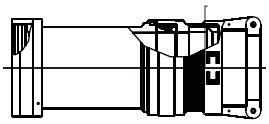
AlumaLight

With its unmatched combination of weight, performance, and price, AlumaLight exceeds the performance and functionality of Mil - standards and is more durable than composites with enhanced EMI performance.

ANGLES/PROFILES & COUPLING STYLES

Angles/Profiles

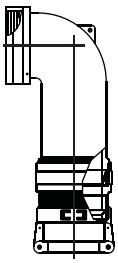
Amphenol Backshells are available in three different angular profiles: straight, 90 degree and 45 degree. These profiles will meet most of the cable routing required in the interconnect market. We can also make additional profiles if required. Please go to the web link http://www.backshellworld.com/customdesign.asp to contact Amphenol about your specific backshell needs.



Straight Backshells

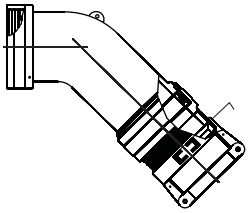
Available in different lengths and cable entry diameters for most applications. Different cable and braid terminating systems are also available as shown in the respective product sections.

*Example shown on pg. 5



90° Angled Backshells

Many applications require the cable to be bent and routed rather than straight routed. Amphenol offers a 90° angled style in all the backshell families for space saving and convenience.



45° Angled Backshells

Amphenol offers further design flexibility with a backshell that allows the cable to be routed 45° to the axis of the assembly.

Coupling Styles

Various coupling styles are available for the coupling between the backshell and the connector. Popular styles are shown in the respective backshell sections, and custom profiles can be designed. Please go to the web link http://www.backshellworld.com/customdesign.asp to contact Amphenol about your specific backshell needs.

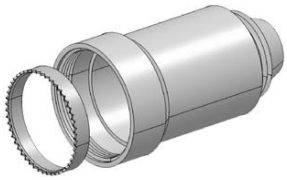
Spin Coupling

A captivated coupling nut within the backshell which provides the following advantages: Free rotation of the coupling nut making the assembly of the backshell to the connector easy without turning the entire backshell body. Lock wire holes are provided on the coupling nut to prevent accidental decoupling.

*Example shown on pg. 5

Self-Lock Coupling

Same as the Spin Coupling style with the additional feature of “self-locking.” Internally locks the movement of the coupling nut so that accidental decoupling is prevented. Used in higher vibration conditions.



Direct Coupling

The coupling nut is eliminated in this design, and the backshell directly threads to the connector. For applications where simple direct connectivity is sufficient.

ASSEMBLY TORQUE VALUE & STYLE 2 CONFIGURATION

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.

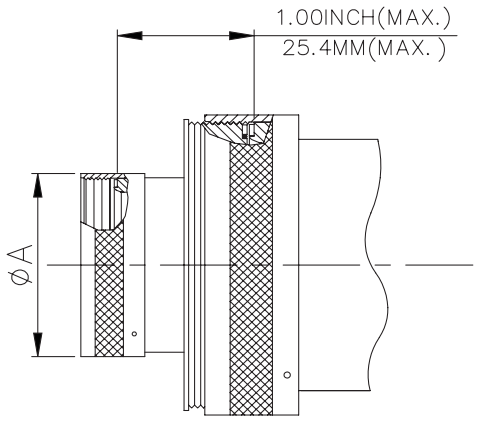
Assembly Torque Value	
Connector Shell Size	**Torque (Inch-Pounds)**
8,9	40
3, 10, 10SL, 11	40
7, 12, 12S, 13	40
14, 14S, 15	40
16, 16S, 17	40
18, 19, 27	40
20, 21, 37	80
22, 23	80
24, 25, 61	80
28	100
32	100
36	100
40	120
44	120
48	120

Torque Values for Cable Clamp Screw	
Screw Size	**Torque (Inch-Pounds)**
2-56	2 ± .5
4-40	4 ± .5
6-32	6 ± 1.0
8-32	8 ± 1.0
10-32	10 ± 1.0
.250-20	12 ± 1.0

*Recommended 75-80% of Values shown for installation

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 support this kind of applications too. The coupling end of the adapter will be modified to Style-2 design as shown in the figure in such cases. The overall length of the style-2 design adapters would be increased by approximately 1inch (25.4mm) as shown. This alternate design is applicable for all the 'Backshell Families' listed in this catalogue.



CONNECTOR GROUP CODE

SPECIFICATIONS		
Connector Specifications	Series/Class	Connector Group Code
40M38277		K
40M39569		J
BS9520	G0001	K
BS9520	G0002	K
BS9520	G0003	L
BS9522 F0001	Patt 602	J
BS9522 F0012	Patt 615	M
BS9522 F0017	Patt 105	N
BS9522 F0020	Patt 608	N
BS9522 F0029	Patt 616	K
BS9522 F0042		J
BS9522 N0001	Patt 603	N
BS9522 N0003	Patt 614	K
CECC 75201.001		J
CECC 75201.002		L
DEF 5326-3		J
EN 2997		J
EN 3645		L
EN 3646		J
EN 3372		M
ESC 10		J
ESC 11		J
JN1003		M
LN29504		J
LN29728		J
LN29729		M
MIL-C-81703	3	J
MIL-DTL-26482	2	J
MIL-DTL-38999	I	K
MIL-DTL-38999	II	K
MIL-DTL-38999	III	L
MIL-DTL-38999	IV	L
MIL-DTL-5015	MS340	J
MIL-DTL-5015	MS345	J
MIL-DTL-83723	I	J
MIL-DTL-83723	III	J
NAS 1599		J
NFC93422	HE302	J
NFC93422	HE306	M
NFC93422	HE308	K
NFC93422	HE309	K
NFL 54140		J
PAN 6432-1		J
PAN 6432-2		J
PAN 6433-1		K
PAN 6433-2		M
VG 96912	2	K
VG 96912	1	M

MILITARY PART NUMBER PREFIX			
Military Part Number Prefix	Specifications	Series/Class	Connector Group Code
D38999/20	MIL-DTL-38999	III	L
D38999/24	MIL-DTL-38999	III	L
D38999/26	MIL-DTL-38999	III	L
D38999/40	MIL-DTL-38999	IV	L
D38999/42	MIL-DTL-38999	IV	L
D38999/46	MIL-DTL-38999	IV	L
D38999/47	MIL-DTL-38999	IV	L
M83723/01	MIL-DTL-83723	I	J
M83723/02	MIL-DTL-83723	I	J
M83723/03	MIL-DTL-83723	I	J
M83723/04	MIL-DTL-83723	I	J
M83723/05	MIL-DTL-83723	I	J
M83723/06	MIL-DTL-83723	I	J
M83723/07	MIL-DTL-83723	I	J
M83723/08	MIL-DTL-83723	I	J
M83723/13	MIL-DTL-83723	I	J
M83723/14	MIL-DTL-83723	I	J
M83723/36	MIL-DTL-83723	I	J
M83723/37	MIL-DTL-83723	I	J
M83723/38	MIL-DTL-83723	I	J
M83723/39	MIL-DTL-83723	I	J
M83723/40	MIL-DTL-83723	I	J
M83723/41	MIL-DTL-83723	I	J
M83723/42	MIL-DTL-83723	I	J
M83723/43	MIL-DTL-83723	I	J
M83723/48	MIL-DTL-83723	I	J
M83723/49	MIL-DTL-83723	I	J
M83723/65	MIL-DTL-83723	III	J
M83723/66	MIL-DTL-83723	III	J
M83723/67	MIL-DTL-83723	III	J
M83723/68	MIL-DTL-83723	III	J
M83723/69	MIL-DTL-83723	III	J
M83723/71	MIL-DTL-83723	III	J
M83723/72	MIL-DTL-83723	III	J
M83723/73	MIL-DTL-83723	III	J
M83723/74	MIL-DTL-83723	III	J
M83723/75	MIL-DTL-83723	III	J
M83723/76	MIL-DTL-83723	III	J
M83723/77	MIL-DTL-83723	III	J
M83723/78	MIL-DTL-83723	III	J
M83723/82	MIL-DTL-83723	III	J
M83723/83	MIL-DTL-83723	III	J
M83723/84	MIL-DTL-83723	III	J
M83723/85	MIL-DTL-83723	III	J
M83723/86	MIL-DTL-83723	III	J
M83723/87	MIL-DTL-83723	III	J
M83723/91	MIL-DTL-83723	III	J
M83723/92	MIL-DTL-83723	III	J

CONNECTOR GROUP CODE

MILITARY PART NUMBER PREFIX			
Military Part Number Prefix	Specifications	Series/Class	Connector Group Code
M83723/95	MIL-DTL-83723	III	J
M83723/96	MIL-DTL-83723	III	J
M83723/97	MIL-DTL-83723	III	J
M83723/98	MIL-DTL-83723	III	J
MS27466	MIL-DTL-38999	I	K
MS27467	MIL-DTL-38999	I	K
MS27468	MIL-DTL-38999	I	K
MS27472	MIL-DTL-38999	II	K
MS27474	MIL-DTL-38999	II	K
MS27475	MIL-DTL-38999	II	K
MS27479	MIL-DTL-38999	II	K
MS27480	MIL-DTL-38999	II	K
MS27481	MIL-DTL-38999	II	K
MS27482	MIL-DTL-38999	II	K
MS27484	MIL-DTL-38999	II	K
MS27497	MIL-DTL-38999	II	K
MS27498	MIL-DTL-38999	I	K
MS27500	MIL-DTL-38999	II	K
MS27652	MIL-DTL-38999	I	K
MS27653	MIL-DTL-38999	I	K
MS27654	MIL-DTL-38999	I	K
MS27656	MIL-DTL-38999	I	K
MS27665	MIL-DTL-38999	I	K
MS3400	MIL-DTL-5015	MS340/MS245	J
MS3401	MIL-DTL-5015	MS340/MS245	J
MS3404	MIL-DTL-5015	MS340/MS245	J
MS3406	MIL-DTL-5015	MS340/MS245	J
MS3408	MIL-DTL-5015	MS340/MS245	J
MS3409	MIL-DTL-5015	MS340/MS245	J
MS3412	MIL-DTL-5015	MS340/MS245	J
MS3424	MIL-C-81703	3	J
MS3446	MIL-C-81703	3	J
MS3450	MIL-DTL-5015	MS340/MS345	J
MS3451	MIL-DTL-5015	MS340/MS345	J
MS3454	MIL-DTL-5015	MS340/MS345	J
MS3456	MIL-DTL-5015	MS340/MS345	J
MS3459	MIL-DTL-5015	MS340/MS345	J
MS3464	MIL-C-81703	3	J
MS3467	MIL-C-81703	3	J
MS3468	MIL-C-81703	3	J
MS3470	MIL-DTL-26482	2	J
MS3471	MIL-DTL-26482	2	J
MS3472	MIL-DTL-26482	2	J
MS3474	MIL-DTL-26482	2	J
MS3475	MIL-DTL-26482	2	J
MS3476	MIL-DTL-26482	2	J
NAS1599	MIL-C-81703	3	J

MILITARY PART NUMBER PREFIX			
Military Part Number Prefix	Specifications	Series/Class	Connector Group Code
NAS1641	MIL-C-81703	3	J
NAS1642	MIL-C-81703	3	J
NAS1643	MIL-C-81703	3	J
NAS1650	MIL-C-81703	3	J
NAS1651	MIL-C-81703	3	J
NAS1652	MIL-C-81703	3	J
NAS1653	MIL-C-81703	3	J
NAS1692	MIL-C-81703	3	J
NAS1693	MIL-C-81703	3	J
NAS1694	MIL-C-81703	3	J
NAS1699	MIL-C-81703	3	J
NAS1700	MIL-C-81703	3	J
NAS1701	MIL-C-81703	3	J
NAS1702	MIL-C-81703	3	J
NATC00	SSQ21635		L
NATC06	SSQ21635		L
NATC07	SSQ21635		L
NB4	40M39569		J
NB6	40M39569		J
NB6G	40M39569		J
NB7	40M39569		J
NBO	40M39569		J
NLS6	40M39569		K
NLS6G	40M39569		K
NLS7	40M39569		K
NLSO	40M39569		K

Connector Group Code Conitnued

CONNECTOR GROUP CODE

MANUFACTURERS PART NUMBER PREFIX		
Manufacturer Part Number	Manufacturer	Connector Group Code
10-475	Amphenol/ Bendix/ Socapex/ Pyle	K
118	Amphenol/ Bendix/ Socapex/ Pyle	J
162GB	Amphenol/ Bendix/ Socapex/ Pyle	N
2PSN	Plessy Connector	N
381	Deutsch	J
418-1	Amphenol/ Bendix/ Socapex/ Pyle	K
418-2	Amphenol/ Bendix/ Socapex/ Pyle	K
418-5	Amphenol/ Bendix/ Socapex/ Pyle	M
486	Amphenol/ Bendix/ Socapex/ Pyle	J
518	Amphenol/ Bendix/ Socapex/ Pyle	J
602GB	Amphenol/ Bendix/ Socapex/ Pyle	J
62GB	Amphenol/ Bendix/ Socapex/ Pyle	N
65	Glenair	L
652	Amphenol/ Bendix/ Socapex/ Pyle	J
66	Glenair	L
711	Amphenol/ Bendix/ Socapex/ Pyle	J
801	Amphenol/ Bendix/ Socapex/ Pyle	J
837	Deutsch	J
83723	Souriau	J
83730	Deutsch	J
851	Souriau	N
8520	Souriau	J
8525	Souriau	J
8526	Souriau	J
853	Souriau	J
8533	Souriau	J
8534	Souriau	J
857	Souriau	J
89	Souriau	J
8D	Souriau	L
8LT	Souriau	K
8T	Souriau	M
91-483	Amphenol/ Bendix/ Socapex/ Pyle	K
944	Matrix	J
951	Deutsch	J
951-50	Deutsch	J
981	Matrix	J
983	Deutsch	J
991	Deutsch	J
999.1	Deutsch	J

MANUFACTURERS PART NUMBER PREFIX		
Manufacturer Part Number	Manufacturer	Connector Group Code
ABJ	AB Electronics	K
AE22	Aero-Electric	L
AE46	Aero-Electric	K
AE47	Aero-Electric	K
AE48	Aero-Electric	K
AE49	Aero-Electric	K
AE55	Aero-Electric	J
AE77	Aero-Electric	J
AE83	Aero-Electric	J
AFD	Deutsch	J
AFD5	Deutsch	J
AFE	Deutsch	J
B	Amphenol/ Bendix/ Socapex/ Pyle	J
BE	Amphenol/ Bendix/ Socapex/ Pyle	J
BL	Flight Connector	L
BT	Amphenol/ Bendix/ Socapex/ Pyle	J
BY1	Amphenol/ Bendix/ Socapex/ Pyle	J
CGK	ITT Cannon	M
CN0930	TRW	J
CNO	G & H Technology	L
CNO930	Labinal/ Cinch	J
CT	Burndy	K
CT	Plessey Connector	K
CT-R	AB Electronics	K
CT-R	Plessey Connector	K
CV340	ITT Cannon	J
CV345	ITT Cannon	J
D817	Deutsch	J
DBA	Deutsch	J
DBA7	Deutsch	J
DBAS	Deutsch	J
DFE	Deutsch	J
DIV4	Deutsch	L
DL	Deutsch	J
DL6	Deutsch	J
DTS	Deutsch	L
DVG	Deutsch	J
EA	Amphenol/ Bendix/ Socapex/ Pyle	J
EB	Amphenol/ Bendix/ Socapex/ Pyle	J
EEG	Amphenol/ Bendix/ Socapex/ Pyle	J
ES	Amphenol/ Bendix/ Socapex/ Pyle	J
ET	Amphenol/ Bendix/ Socapex/ Pyle	J
FDBA	Deutsch	J
FF	Deutsch	J
FF	Flight Connector	J
FH	Flight Connector	J
HDJ	Deutsch	M

CONNECTOR GROUP CODE

MANUFACTURERS PART NUMBER PREFIX		
Manufacturer Part Number	Manufacturer	Connector Group Code
HTMF	ITT Cannon	J
JT	Amphenol/ Bendix/ Socapex/ Pyle	K
JT 3400	J-Tech	J
JT 3450	J-Tech	J
JT-R	FKI	K
JT-R	Teldix	K
JTVG 95234	J-Tech	J
JVS	Souriau	L
KJ	ITT Cannon	K
KJA	ITT Cannon	L
KJAD/V4	ITT Cannon	L
KJL	ITT Cannon	K
KV-R	ITT Cannon	J
LJT	Amphenol/ Bendix/ Socapex/ Pyle	K
LS	Amphenol/ Bendix/ Socapex/ Pyle	J
LTT	FKI	K
MB1	Matrix	J
MB3	Matrix	J
MB9	Matrix	K
MD	Matrix	J
MF	ITT Cannon	J
MFG	ITT Cannon	J
MK 12	AB Electronics	N
MK 18	AB Electronics	N
MK 8	AB Electronics	N
MK12	Plessey Connector	N
MK25	Plessey Connector	K
MK38	Plessey Connector	K
MK8	Plessy Connector	N
ML94	Matrix	L
MQ3	Matrix	J
MT3	Matrix	J
MT93	Matrix	L
P5	Plessy Connector	N
PL	Deutsch	L
PT	ITT Cannon	N
PT33	FKI	N
PT33SE	FKI	N
PT44	FKI	N
PT44SE	FKI	N
PT55	FKI	N
PT55SE	FKI	N
PT77	FKI	N
PT77SE	FKI	N
PTG55	FKI	N
PTG55SE	FKI	N
PTS-DR	Amphenol/ Bendix/ Socapex/ Pyle	J

MANUFACTURERS PART NUMBER PREFIX		
Manufacturer Part Number	Manufacturer	Connector Group Code
PT-SE	ITT Cannon	N
PV7	ITT Cannon	J
PVA	ITT Cannon	J
PV-G	ITT Cannon	J
PVJ	ITT Cannon	J
PV-S	ITT Cannon	J
PVW	ITT Cannon	J
PVX	ITT Cannon	J
RD1	Raychem	J
RR	Deutsch	J
RR20	Deutsch	J
RR50	Deutsch	J
RR70	Deutsch	J
RR70	Deutsch	J
SA	SAE	J
SJT	Amphenol/ Bendix/ Socapex/ Pyle	M
STT	FKI	M
STT	ITT Cannon	M
T3	Amphenol/ Bendix/ Socapex/ Pyle	L
TT	FKI	K
TT/TTPQ	ITT Cannon	K
TT/TTPQ	ITT Cannon	K
TV	Amphenol/ Bendix/ Socapex/ Pyle	L
TVP	FKI/ Bendix	L
TVRB	Amphenol/ Bendix/ Socapex/ Pyle	L
TVS	Amphenol/ Bendix/ Socapex/ Pyle	L
VTT	FKI	L

Connector Group Code Conitnued

CONNECTOR GROUP CODE

MANUFACTURERS PART NUMBER PREFIX	
Manufacturer's Part Number Prefix	Connector Group Code
AB Electronics	
ABJ	K
CT-R	K
MK 12	N
MK 18	N
MK 8	N
Aero-Electric	
AE22	L
AE46	K
AE47	K
AE48	K
AE49	K
AE55	J
AE77	J
AE83	J
Amphenol/ Bendix/ Socapex/ Pyle	
10-475	K
118	J
162GB	N
418-1	K
418-2	K
418-5	M
486	J
518	J
602GB	J
62GB	N
652	J
711	J
801	J
91-483	J
B	J
BE	J
BT	J
BY1	J
EA	J
EB	J
EEG	J
ES	J
ET	J
JT	K
LJT	K
LS	J
PTS-DR	J
SJT	M
T3	L
TV	L
TVRB	L
TVS	L

MANUFACTURERS PART NUMBER PREFIX	
Manufacturer's Part Number Prefix	Connector Group Code
Burndy	
CT	K
Deutsch	
381	J
837	J
83730	J
RR70	J
RR70	J
FKI	
JT-R	K
LTT	K
PT33	N
PT33SE	N
PT44	N
PT44SE	N
PT55	N
PT55SE	N
PT77	N
PT77SE	N
PTG55	N
PTG55SE	N
STT	M
TT	K
VTT	L
TVP	L
Flight Connector	
BL	L
FF	J
FH	J
G & H Technology	
CNO	L
Glenair	
65	L
66	L
ITT Cannon	
CGK	M
CV340	J
CV345	J
HTMF	J
KJ	K
KJA	L
KJAD/V4	L
KJL	K
MB3	J
MB9	K
MD	J
ML94	L
MQ3	J

MANUFACTURERS PART NUMBER PREFIX	
Manufacturer's Part Number Prefix	Connector Group Code
MT3	J
MT93	L
Plessy Connector	
2PSN	N
CT	K
CT-R	K
MK12	N
MK25	K
MK38	K
MK8	N
P5	N
Raychem	
RDI	J
Souriau	
83723	J
851	N
8520	J
8525	J
8526	J
853	J
8533	J
8534	J
857	J
89	J
8D	L
8LT	K
8ST	M
8T	K
JVS	L
Teldix	
JT-R	K
TRW/Cinch	
CN0930	J

MATERIALS & FINISHES

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

- 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: fluorosilicone, silicone
- Composite: Suitable corrosion resistant material
- Nickel Aluminum (NiAl)-Bronze AMS-QQ-C-465

Backshell Plating Finishes				
Amphenol Designation	Mil-Spec Designation	Finish	Guiding Specifications/ Requirements	RoHS
A	A	Anodized, Black*	Meet AS85049 Requirements	Yes
N	N	Electroless Nickel		Yes
W	W	Cadmium Olive Drab over Electroless Nickel		No
ZN	Z	Black Zinc Nickel		Yes
P	P	Cadmium Olive Drab w/ Exposed Nickel		No
S	-	Stainless Steel	Coming Soon	Yes

Nickel Fluorocarbon

Electroless Nickel

Striped Cadmium

Cadmium

Black Zinc Nickel

Stripped Black Zinc Nickel

Stainless Steel

Amphenol Pcd

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