



Backshells from Amphenol PCD



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Backshells for Connector Family “L”

- MIL-DTL-38999 (Series III), MIL-DTL-38999 (Series IV) 487-507

Backshells for Connector Family “K”

- MIL-DTL-38999 (Series II), MIL-DTL-38999 (Series I) 508-527

Backshells for Connector Family “J”

- MIL-DTL-26482 (Matrix, Series 2), MIL-DTL-5015 (Matrix, MS345X),
MIL-DTL-83723 (Matrix & Pyle Series III) 528-553



Amphenol PCD

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Phone: 978-624-3400
www.amphenolpcd.com

Amphenol

Backshells

From Amphenol PCD

Amphenol holds the leadership position for providing interconnect solutions that meet almost all Military, Aerospace and Industrial standards in the U.S., Europe and Asia.

With design and manufacturing facilities and sales offices spread across the globe, Amphenol offers a vast product portfolio of connectors, cable assemblies and system integration for almost all applications across various industries.

BACKSHELLS

Within Amphenol's wide range of interconnect products is a full range of backshell hardware. Customers can take advantage of Amphenol's global synergy for connectors, backshells and cable harnessing with one place for all their interconnect needs.

Plus, coming to Amphenol for a custom design of a backshell, means that customers benefit from the vast amount of experience this global company has in designing interconnect solutions.

This section covers the backshells that are provided through Amphenol PCD:

- Backshells for Connector Family "L", which includes MIL-DTL-38999 Series III and Series IV
- Backshells for Connector Family "K", which includes MIL-DTL-38999 Series II and Series I
- Backshells for Connector Family "J", which includes MIL-DTL-26482 (Series 2), MIL-DTL-5015 (Matrix MS345X), MIL-DTL-83723 (Matrix & Pyle Series III)



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38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

Matrix I Pyle

83723

III

Pyle

26500

5015

Crimp Rear Release Matrix

22992

Class I

Back-

Shells

Options

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PCB

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, where as weight may be the prime consideration for space and Aerospace application. 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 mechanism 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 saving is of higher importance.

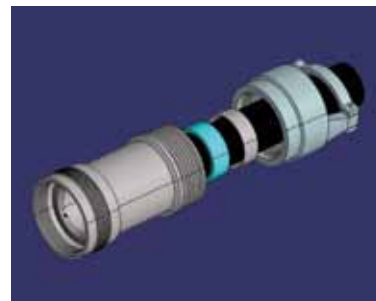
Non-Environmental Backshell

- 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.



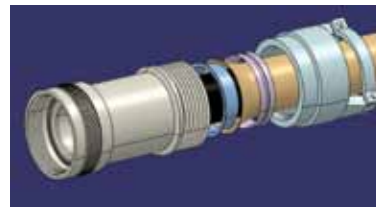
Environmental Backshell

- 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

- 360-degree screen termination facility, in addition to other features of the Non-Environmental type. Available in straight, 90 degree bent and 45 degree bent varieties.
- Accommodates both individual and overall shielding.



Environmental EMI/RFI Backshell

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



High Speed

Fiber Optics

Contacts

EMI Filter Transient

26482

Matrix 2

83723

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Pyle

5015

Crimp Rear Release
Matrix

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Class L

Back-Shells

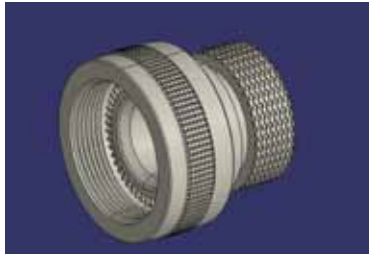
Options Others

Backshells

Quick Reference of Products, cont.

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 here to ensure the repairability.



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.



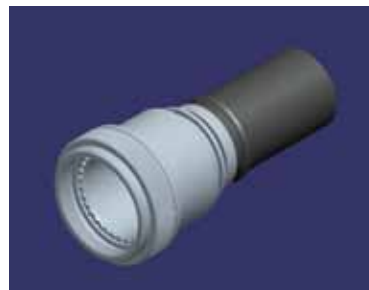
Band Lock Adapter

- Another method of termination of screens. A high quality band will do the job in this backshell. Tempered bands are tightened over the shields, which is 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

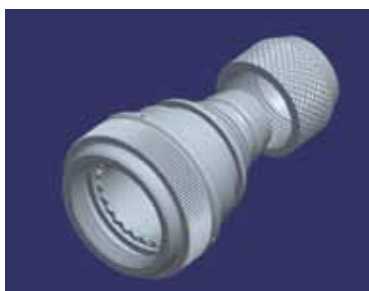
- Supplied with some length of braid attached. This braid overlaps with the cable braid.
- Effective shielding takes place due to the 360° contact of the braid.
- Designed to accept heat shrink boot.
- Ease of assembly saves time for cable termination.



SQ Adapter

- Another cost-effective way to terminate the braid to the adapter. The cost-effective 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 also.

Note: The SQ adapter style is not covered in this catalog section; for more information go to www.backshellworld.com



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Transient

Matrix 2	26482
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Matrix Pyle	83723
III	

Pyle	26500
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Crimp Rear Release Matrix	5015
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Class 1	22992
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Back-Shell

Options Others

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Matrix | Pyle

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Pyle

5015

Crimp Rear Release
Matrix

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Class L

Back-Shells

Options
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Quick Clamp

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



Strain Relief Clamps

- Another cost effective cable holding option when environmental protection is not a concern, and weight savings is a major consideration.
- Secures and “tidys-up” the cable and also provides good strain relief at the termination area.



Grommet Nut

- Provides a good grommet-holding force for the crimp connectors when expensive and heavy backshells are not used. Such holding force is essential to hold the contacts and grommet in place when terminated with wire bundles.



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.



Note: The lamp thread adapter style is not covered in this catalog section; for more information go to www.backshellworld.com

Backshells

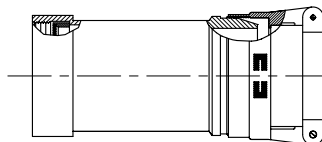
Angle/Profiles and Coupling Styles

BACKSHELL ANGLE/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 inter-connect 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.

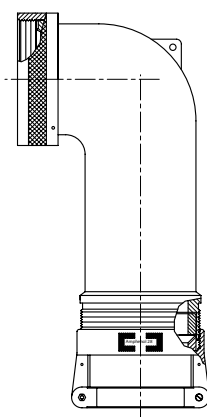
Straight Backshells

Straight Backshells are available in different length and cable entry diameter for most applications. Different cable and braid terminating systems are also available as shown in the respective product sections.



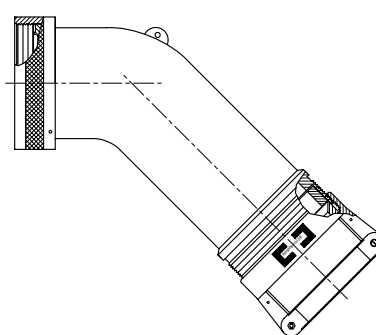
90° Angled Backshells

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.



BACKSHELL 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 which makes 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.



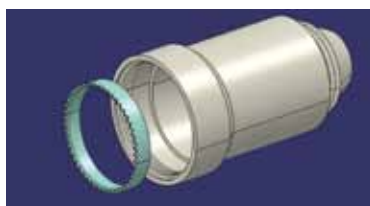
Self-Lock Coupling

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 when simple direct connectivity is sufficient.



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Matrix I Pyle 83723

Pyle 26500

Crimp Rear Release Matrix 5015

Class I 22992

Back-
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Options
Others

HOW TO SELECT A SUITABLE BACKSHELL

1. Based on the design and application considerations select the backshell type from the Quick Reference Guide, pages 479-482.
2. Review the Angle/Profiles and Coupling Styles on page 483 to determine the configuration which suits your application.
3. Scan the Connector Group Table on the next page to determine the Group Code (K, L or J) of the connector for which you require the backshell.
 - Backshells for Connector Family “L”, which includes MIL-DTL-38999 Series III and Series IV
 - Backshells for Connector Family “K”, which includes MIL-DTL-38999 Series II and Series I
 - Backshells for Connector Family “J”, which includes MIL-DTL-26482 (Series 2), MIL-DTL-5015 (Matrix MS345X), MIL-DTL-83723 (Matrix & Pyle Series III)
4. Go to the Backshell style pages within the connector family of your choice (K, L or J). Find the backshell style you need in the appropriate connector group section based on your choice of angle/profile and coupling style.
5. Build a part number from the sample part number on each backshell style page. For the material and finish options, you will need to turn to page 486 and review Table-2.

Selecting a Backshell can also be done from our web link:

<http://www.backshellworld.com/backshelldesigner.asp>

CROSS-REFERENCE TO OTHER MANUFACTURER'S BACKSHELLS

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>

CUSTOM BUILT BACKSHELLS

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>

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Pyle

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Crimp Rear Release
Matrix

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Class L

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Shells

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Others

Backshells

Tables - By Connector Groups

By Specification (TABLE-1A)

Connector Specification	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
EN3372		M*
ESC 10		J
ESC11		J
JN1003		M*
LN 29504		J
LN 29728		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
PAN6433-2		M*
VG 96912	2	K
VG 96912	1	M*

By Manufacturer (TABLE-1D)

Amphenol/Bendix/Socapex/Pyle Part Number Prefix	Connector Group Code
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
944	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
MB1	J
MB3	J
MB9	K
MD	J
ML94	L
MQ3	J
MT3	J
MT93	L
PTS-DR	J
SJT	M*
T3	L
TV	L
TVRB	L
TVS	L

* Connector Groups M and N are not included in this catalog section. For more information go to backshellworld.com.

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Contacts	

EMI Filter
Transient

Matrix 2
26482

Matrix I Pyle
83723
III

Pyle
26500

Matrix
5015
Crimp Rear Release

Class I
22992

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Others

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Matrix 2

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III
Matrix | Pyle

26500
Pyle

5015
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Matrix

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Class L

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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
A	A	Anodize, Black*	To meet AS85049 requirements
B		Anodize, Hard*	AMS-A-8625, Type-III, Class-1
L		Nickel, Bright	AMS-QQ-290, Class-1, Grade-F
M		Electroless Nickel	AMS-C-26074, Class-4, Grade-B
N	N	Electroless Nickel	To meet AS85049 requirements
T		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
Y		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.

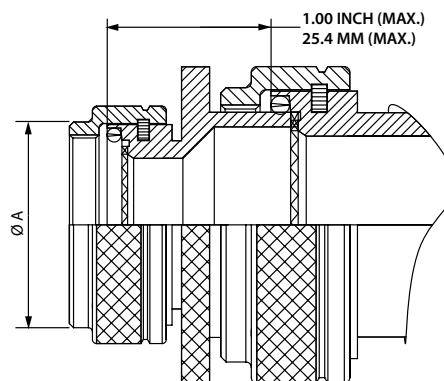
ASSEMBLY TORQUE VALUES

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

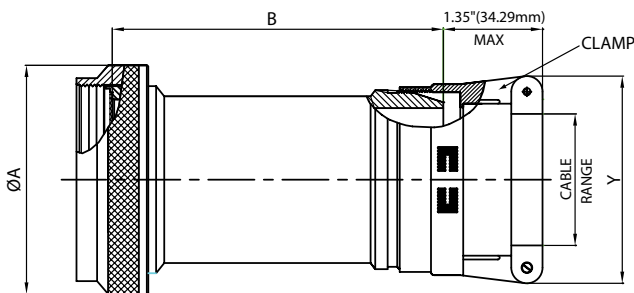
Some design consideration will require bigger diameter cable to be terminated in the smaller shell size connectors. Cable with heavy/thicker shielding, many wires for different branches/routing are some of the examples. Such cable termination will require a bigger adapter body with cable entry dimensions 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.



Non-Environmental Backshell
Straight, Spin Coupling

For Connector Family L

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



MIL Part Number
M85049 / 21 11 W 03 A
MIL Series
Slash Sheet: 21: Straight, Spin Coupling
Shell Size: See Table-A
Length: See Table-A (Omit for "STD")
Clamp Size: See Table-A
Finish: See Table- 2 (pg. 486)

TABLE – A													
MIL PART NUMBER DESIGNATOR			CONNECTOR SHELL SIZE/ CODE (REF.)	CABLE RANGE				A DIA. (MAX)		B (MAX)		Y (MAX)	
CONNECTOR SHELL SIZE	CLAMP SIZE	LENGTH		MIN		MAX		INCH	MM	INCH	MM	INCH	MM
				INCH	MM	INCH	MM						
9	01	STD.	09 / 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		

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

For Connector Family L

38999 Series III, IV

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

TABLE – A, Cont.

TABLE – A, Cont.													
MIL PART NUMBER DESIGNATOR			CONNECTOR SHELL SIZE/ CODE (REF.)	CABLE RANGE				A DIA. (MAX)		B (MAX)		Y (MAX)	
CONNECTOR SHELL SIZE	CLAMP SIZE	LENGTH		MIN		MAX		INCH	MM	INCH	MM	INCH	MM
				INCH	MM	INCH	MM						
17, cont.	05	STD.	17/E	0.44	11.10	0.63	15.88	1.25	31.75	1.53	38.86	1.25	31.75
		A								2.53	64.26		
		B								3.53	89.66		
	06	STD.		0.56	14.27	0.75	19.05			1.53	38.86	1.40	35.56
		A								2.53	64.26		
		B								3.53	89.66		
19	03	STD.	19 / F	0.25	6.35	0.38	9.53	1.40	35.56	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		
	06	STD.		0.56	14.27	0.75	19.05			1.53	38.86	1.40	35.56
		A								2.53	64.26		
		B								3.53	89.66		
	07	STD.		0.69	17.45	0.88	22.23			1.53	38.86	1.50	38.10
		A								2.53	64.26		
		B								3.53	89.66		
21	03	STD.	21 / G	0.25	6.35	0.38	9.53	1.50	38.10	1.53	38.86	1.10	27.94
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	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		
		C								4.53	115.06		
	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		
		C								4.53	115.06		
	06	STD.		0.56	14.27	0.75	19.05			1.53	38.86	1.40	35.56
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	07	STD.		0.69	17.45	0.88	22.23			1.53	38.86	1.50	38.10
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	08	STD.		0.81	20.62	1.00	25.40			1.53	38.86	1.65	41.91
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
23	03	STD.	23 / H	0.25	6.35	0.38	9.53	1.65	41.91	1.53	38.86	1.10	27.94
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		

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

TABLE CONTINUES ON NEXT PAGE

For Connector Family L

38999

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

Fiber
Optics
Contacts
High Speed

EMI Filter
Transient

Matrix 2
26482

Matrix I Pyle
83723
III

Pyle
26500

Crimp Rear
Release
Matrix
5015

Class I
22992

Back-
Shells

Options
Others

38999 Series III, IV

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

TABLE – A, Cont.

TABLE – A, Cont.													
MIL PART NUMBER DESIGNATOR			CONNECTOR SHELL SIZE/ CODE (REF.)	CABLE RANGE				A DIA. (MAX)		B (MAX)		Y (MAX)	
CONNECTOR SHELL SIZE	CLAMP SIZE	LENGTH		MIN		MAX		INCH	MM	INCH	MM	INCH	MM
				INCH	MM	INCH	MM						
23, cont.	04	STD.	23 / H	0.31	7.92	0.50	12.70	1.65	41.91	1.53	38.86	1.20	30.48
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	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		
		C								4.53	115.06		
	06	STD.		0.56	14.27	0.75	19.05			1.53	38.86	1.40	35.56
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	07	STD.		0.69	17.45	0.88	22.23			1.53	38.86	1.50	38.10
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	08	STD.		0.81	20.62	1.00	25.40			1.53	38.86	1.65	41.91
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	09	STD.		0.94	23.80	1.13	28.58			1.53	38.86	1.75	44.45
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
25	04	STD.	25 / J	0.31	7.92	0.50	12.70	1.75	44.45	1.53	38.86	1.20	30.48
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	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		
		C								4.53	115.06		
	06	STD.		0.56	14.27	0.75	19.05			1.53	38.86	1.40	35.56
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	07	STD.		0.69	17.45	0.88	22.23			1.53	38.86	1.50	38.10
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	08	STD.		0.81	20.62	1.00	25.40			1.53	38.86	1.65	41.91
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	09	STD.		0.94	23.80	1.13	28.58			1.53	38.86	1.75	44.45
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	10	STD.		1.06	26.97	1.25	31.75			1.53	38.86	1.90	48.26
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		

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

For Connector Family L

38999 Series III, IV

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

MIL Part Number

M85049 / 19 11 W 03 A

MIL Series

Slash Sheet:
19: Straight,
Spin Coupling

Shell Size:
See Table-A

Length:
See Table-A
(Omit for "STD")

Clamp Size:
See Table-A

Finish:
See Table-2 (pg. 486)

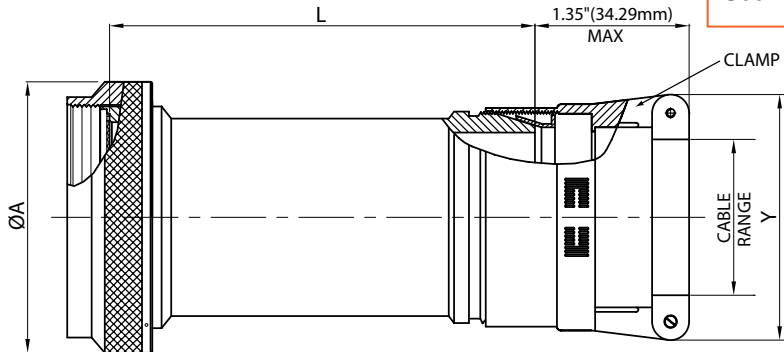


TABLE-A

TABLE-A																								
MIL PART NUMBER DESIGNATOR			CONNECTOR SHELL SIZE/ CODE (REF.)	CABLE RANGE				A DIA. (MAX)		L (MAX)		Y (MAX)												
CONNECTOR SHELL SIZE	CLAMP SIZE	LENGTH		MIN		MAX		INCH	MM	INCH	MM	INCH	MM											
				INCH	MM	INCH	MM																	
9	01	STD.	09 / 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													
		STD.								1.53	38.86													
	03	A		0.25	6.35	0.38	9.53			2.53	64.26	1.10	27.94											
		B								3.53	89.66													
		STD.								1.53	38.86													
		A								2.53	64.26													
	04	A		0.31	7.92	0.50	12.70			2.53	64.26	1.20	30.48											
		B								3.53	89.66													
		STD.								1.53	38.86													
		A								2.53	64.26													
	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													
		STD.								1.53	38.86													

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

TABLE CONTINUES ON NEXT PAGE

For Connector Family L

38999 Series III, IV

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

TABLE-A, cont.

TABLE-A, cont.													
MIL PART NUMBER DESIGNATOR			CONNECTOR SHELL SIZE/ CODE (REF.)	CABLE RANGE				A DIA. (MAX)		L (MAX)		Y (MAX)	
CONNECTOR SHELL SIZE	CLAMP SIZE	LENGTH		MIN		MAX		INCH	MM	INCH	MM	INCH	MM
				INCH	MM	INCH	MM						
23	03	STD.	23 / H	0.25	6.35	0.38	9.53	1.65	41.91	1.53	38.86	1.10	27.94
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	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		
		C								4.53	115.06		
	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		
		C								4.53	115.06		
	06	STD.		0.56	14.27	0.75	19.05			1.53	38.86	1.40	35.56
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	07	STD.		0.69	17.45	0.88	22.23			1.53	38.86	1.50	38.10
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	08	STD.		0.81	20.62	1.00	25.40			1.53	38.86	1.65	41.91
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	09	STD.		0.94	23.80	1.13	28.58			1.53	38.86	1.75	44.45
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
25	04	STD.	25 / J	0.31	7.92	0.50	12.70	1.75	44.45	1.53	38.86	1.20	30.48
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	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		
		C								4.53	115.06		
	06	STD.		0.56	14.27	0.75	19.05			1.53	38.86	1.40	35.56
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	07	STD.		0.69	17.45	0.88	22.23			1.53	38.86	1.50	38.10
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	08	STD.		0.81	20.62	1.00	25.40			1.53	38.86	1.65	41.91
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	09	STD.		0.94	23.80	1.13	28.58			1.53	38.86	1.75	44.45
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		
	10	STD.		1.06	26.97	1.25	31.75			1.53	38.86	1.90	48.26
		A								2.53	64.26		
		B								3.53	89.66		
		C								4.53	115.06		

For Connector Family L

38999 Series III, IV

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

TABLE – A, cont.															
MIL PART NUMBER DESIGNATOR			CONNECTOR SHELL SIZE/ CODE (REF.)	CABLE RANGE				A DIA. (MAX)		B (MAX)		X (MAX)		Y (MAX)	
CONNECTOR SHELL SIZE	CLAMP SIZE	LENGTH CODE		MIN		MAX		INCH	MM	INCH	MM	INCH	MM	INCH	MM
			INCH	MM	INCH	MM									
23, cont.	07	STD.	23 / H	0.75	19.05	0.88	22.23	1.65	41.91	1.53	38.86	1.50	38.10	1.50	38.10
		A								2.53	64.26				
		B								3.53	89.66				
		C								4.53	115.06				
	08	STD.		0.88	22.23	1.00	25.40			1.53	38.86	1.63	41.40	1.65	42.91
		A								2.53	64.26				
		B								3.53	89.66				
		C								4.53	115.06				
	09	STD.		1.00	25.40	1.13	28.58			1.53	38.86	1.63	41.40	1.75	44.45
		A								2.53	64.26				
		B								3.53	89.66				
		C								4.53	115.06				
25	04	STD.	25 / J	0.38	9.53	0.50	12.70	1.85	46.99	1.53	38.86	1.25	31.75	1.20	30.48
		A								2.53	64.26				
		B								3.53	89.66				
		C								4.53	115.06				
	05	STD.		0.50	12.70	0.63	15.88			1.53	38.86	1.31	33.27	1.25	31.75
		A								2.53	64.26				
		B								3.53	89.66				
		C								4.53	115.06				
	06	STD.		0.63	15.88	0.75	19.05			1.53	38.86	1.38	35.05	1.40	35.56
		A								2.53	64.26				
		B								3.53	89.66				
		C								4.53	115.06				
	07	STD.		0.75	19.05	0.88	22.23			1.53	38.86	1.50	38.10	1.50	38.10
		A								2.53	64.26				
		B								3.53	89.66				
		C								4.53	115.06				
	08	STD.		0.88	22.23	1.00	25.40			1.53	38.86	1.63	41.40	1.65	41.91
		A								2.53	64.26				
		B								3.53	89.66				
		C								4.53	115.06				
	09	STD.		1.00	25.40	1.13	28.58			1.53	38.86	1.63	41.40	1.75	44.45
		A								2.53	64.26				
		B								3.53	89.66				
		C								4.53	115.06				
	10	STD.		1.13	28.58	1.25	31.75			1.53	38.86	1.63	41.40	1.90	48.26
		A								2.53	64.26				
		B								3.53	89.66				
		C								4.53	115.06				

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

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

Matrix 2

83723

III

Matrix I Pyle

26500

Pyle

5015

Crimp Rear Release Matrix

22992

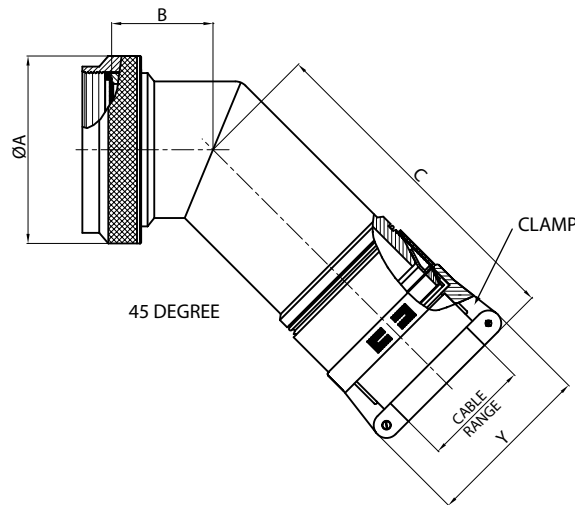
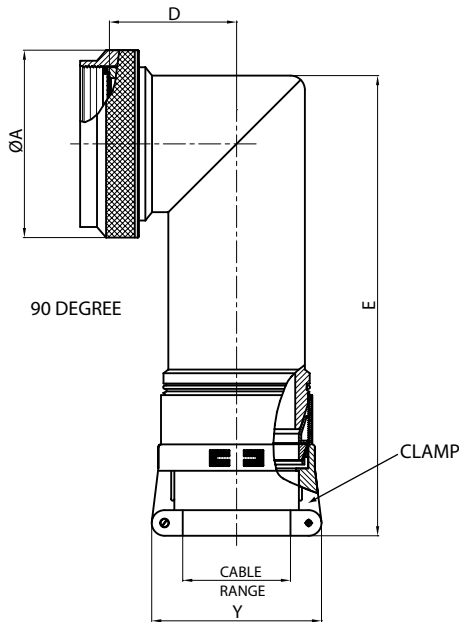
Class L

Back-

Shells

Options

Others



MIL Part Number

M85049 / 79 11 W 03

MIL Series: **M85049**
 Slash Sheet: **79**
 79: 90°, Spin Coupling
 78: 45°, Spin Coupling
 Shell Size: **11**
 See Table-B
 Clamp Size: See Table-B
 Finish: See Table-2 (pg. 486)

TABLE - B

TABLE – B																			
MIL PART NUMBER DESIGNATOR		CONNECTOR SHELL SIZE/ CODE (REF.)	CABLE RANGE				A DIA. (MAX)		B (MAX)		C (MAX)		D (MAX)		E (MAX)		Y (MAX)		
CONNECTOR SHELL SIZE	CLAMP SIZE		MIN		MAX		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	
			INCH	MM	INCH	MM													
9	01	09 / A	0.06	1.57	0.13	3.18	0.75	19.05	0.46	11.68	3.15	80.01	0.69	17.53	3.46	87.88	0.80	20.32	
	02		0.13	3.18	0.25	6.35											1.00	25.40	
11	01	11 / B	0.06	1.57	0.13	3.18	0.85	21.59	0.52	13.21	3.21	81.53	0.78	19.81	3.58	90.93	0.80	20.32	
	02		0.13	3.18	0.25	6.35											1.00	25.40	
	03		0.25	6.35	0.38	9.53											1.10	27.94	
13	02	13 / C	0.13	3.18	0.25	6.35	1.00	25.40	0.58	14.73	3.27	83.06	0.80	20.32	3.60	91.44	1.00	25.40	
	03		0.25	6.35	0.38	9.53											1.10	27.94	
	04		0.38	9.53	0.50	12.70											1.20	30.48	
15	02	15 / D	0.13	3.18	0.25	6.35	1.15	29.21	0.65	16.51	3.36	85.34	0.88	22.35	3.67	93.22	1.00	25.40	
	03		0.25	6.35	0.38	9.53											1.10	27.94	
	04		0.38	9.53	0.50	12.70											1.20	30.48	
	05		0.50	12.70	0.63	15.88											1.25	31.75	
17	02	17 / E	0.13	3.18	0.25	6.35	1.25	31.75	0.74	18.80	3.47	88.14	0.93	23.62	3.76	95.50	1.00	25.40	
	03		0.25	6.35	0.38	9.53											1.10	27.94	
	04		0.38	9.53	0.50	12.70											1.20	30.48	
	05		0.50	12.70	0.63	15.88											1.25	31.75	
	06		0.63	15.88	0.75	19.05											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

For Connector Family L

38999 Series III, IV

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

TABLE – B, cont.

TABLE – B, cont.																			
MIL PART NUMBER DESIGNATOR		CONNECTOR SHELL SIZE/ CODE (REF.)	CABLE RANGE				A DIA. (MAX)		B (MAX)		C (MAX)		D (MAX)		E (MAX)		Y (MAX)		
CONNECTOR SHELL SIZE	CLAMP SIZE		MIN		MAX		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	
			INCH	MM	INCH	MM													
19	03	19 / F	0.25	6.35	0.38	9.53	1.40	35.56	0.93	23.62	3.66	92.96	1.01	25.65	3.93	99.82	1.10	27.94	
	04		0.38	9.53	0.50	12.70											1.20	30.48	
	05		0.50	12.70	0.63	15.88											1.25	31.75	
	06		0.63	15.88	0.75	19.05											1.40	35.56	
	07		0.75	19.05	0.88	22.23											1.50	38.10	
21	03	21 / G	0.25	6.35	0.38	9.53	1.55	39.37	0.93	23.62	3.66	92.96	1.06	26.92	3.93	99.82	1.10	27.94	
	04		0.38	9.53	0.50	12.70											1.20	30.48	
	05		0.50	12.70	0.63	15.88											1.25	31.75	
	06		0.63	15.88	0.75	19.05											1.40	35.56	
	07		0.75	19.05	0.88	22.23											1.50	38.10	
	08		0.88	22.23	1.00	25.40											1.65	41.91	
23	03	23 / H	0.25	6.35	0.38	9.53	1.65	41.91	1.02	25.91	3.81	96.77	1.17	29.72	4.04	102.62	1.10	27.94	
	04		0.38	9.53	0.50	12.70											1.20	30.48	
	05		0.50	12.70	0.63	15.88											1.25	31.75	
	06		0.63	15.88	0.75	19.05											1.40	35.56	
	07		0.75	19.05	0.88	22.23											1.50	38.10	
	08		0.88	22.23	1.00	25.40											1.65	41.91	
	09		1.00	25.40	1.13	28.58											1.75	44.45	
25	04	25 / J	0.38	9.53	0.50	12.70	1.85	46.99	1.02	25.91	3.81	96.77	1.18	29.97	4.04	102.62	1.20	30.48	
	05		0.50	12.70	0.63	15.88											1.25	31.75	
	06		0.63	15.88	0.75	19.05											1.40	35.56	
	07		0.75	19.05	0.88	22.23											1.50	38.10	
	08		0.88	22.23	1.00	25.40											1.65	41.91	
	09		1.00	25.40	1.13	28.58											1.75	44.45	
	10		1.13	28.58	1.25	31.75											1.90	48.26	

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

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

83723

III

Pyle

26500

5015

Crimp Rear Release Matrix

22992

Class I

Back-

Shells

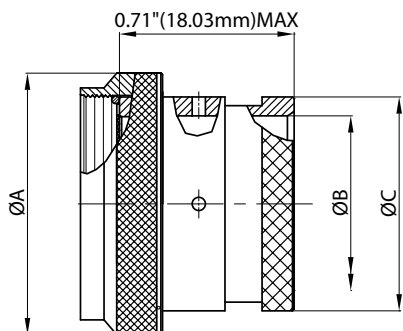
Options

Others

For Connector Family L

38999 Series III, IV

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



MIL Part Number

M85049 / 69 -11 W D

MIL Series: M85049 / 69
Slash Sheet: 69: Straight, Spin Coupling
-11: Shell Size
W: Finish
D: Drain hole Option

Finish: See Table-2 (pg. 486)
Shell Size: See Table-A

TABLE-A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE/ CODE (REF.)	A DIA. (MAX)		B DIA. (MIN)		C DIA. (MAX)	
		INCH	MM	INCH	MM	INCH	MM
9	09 / A	0.75	19.05	0.25	6.35	0.53	13.54
11	11 / B	0.85	21.59	0.38	9.53	0.61	15.37
13	13 / C	1.00	25.40	0.50	12.70	0.77	19.66
15	15 / D	1.15	29.21	0.63	15.88	0.84	21.29
17	17 / E	1.25	31.75	0.75	19.05	0.94	23.77
19	19 / F	1.40	35.56	0.81	20.62	1.04	26.47
21	21 / G	1.55	39.37	0.94	23.80	1.22	30.91
23	23 / H	1.65	41.91	1.06	26.97	1.36	34.42
25	25 / J	1.85	46.99	1.19	30.18	1.44	36.65

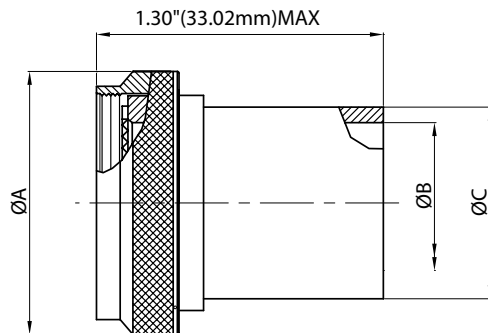
Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

Crimp Ring Adapter Straight, Spin Coupling without Ring

For Connector Family L

38999 Series III, IV

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



MIL Part Number

M85049 / 20 -11 W

MIL Series

Slash Sheet:
20: Straight,
Spin Coupling
Adapter without ring

Finish:
See Table-2
(pg. 486)

Shell Size:
See Table-A

Refer to page 544 for ordering details of Ring.

TABLE – A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE/ CODE (REF.)	A DIA.(MAX)		B DIA.(MAX)		C DIA.(MAX)	
		INCH	MM	INCH	MM	INCH	MM
9	9 / A	0.75	19.05	0.27	6.73	0.35	8.81
11	11 / B	0.85	21.59	0.34	8.71	0.50	12.65
13	13 / C	1.00	25.40	0.44	11.10	0.51	12.95
15	15 / D	1.10	27.94	0.56	14.27	0.63	16.00
17	17 / E	1.25	31.75	0.69	17.45	0.76	19.30
19	19 / F	1.40	35.56	0.81	20.62	0.89	22.61
21	21 / G	1.50	38.10	0.94	23.80	1.01	25.65
23	23 / H	1.65	41.91	1.05	26.57	1.13	28.70
25	25 / J	1.75	44.45	1.13	28.58	1.20	30.53

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

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter
Transient

Matrix 2

26482

Matrix | Pyle

83723

Pyle

26500

Crimp Rear

Release

Matrix

5015

Class 1

22992

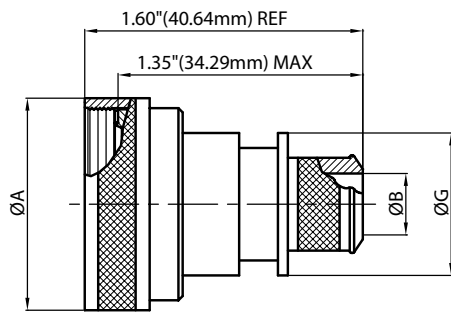
Back-
Shells

Options
Others

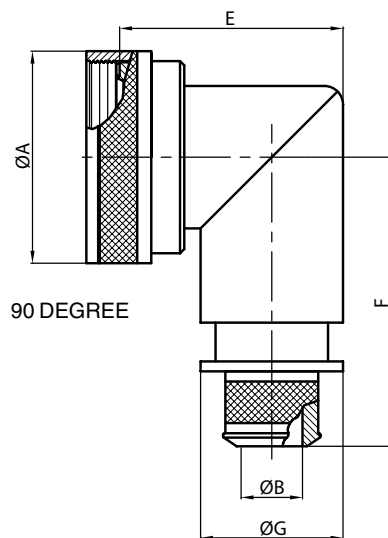
For Connector Family L

38999 Series III, IV

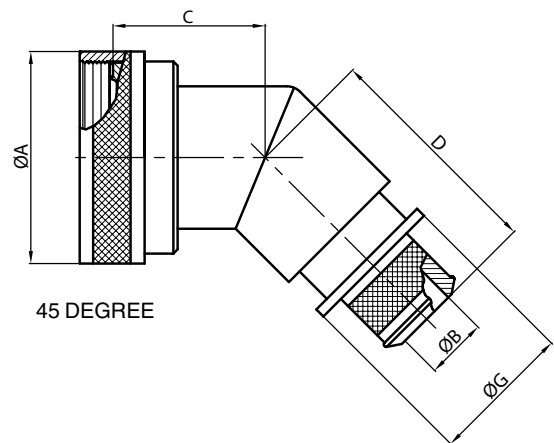
Connector Family "L", includes MIL-DTL-38999 Series III and Series IV



STRAIGHT



90 DEGREE



45 DEGREE

MIL Part Number

M85049 / 88 -11 W 03

MIL Series

Slash Sheet:

88: Straight, Self-Lock
90: 90°, Self-Lock
89: 45°, Self-Lock

Entry Size:
See Table-A

Finish:
See Table-2
(pg. 486)

Shell Size:
See Table-A

TABLE-A

TABLE-A																
MIL PART NUMBER DESIGNATOR		CONNECTOR SHELL SIZE/ CODE (REF.)	A DIA. (MAX)		B DIA. (MAX)		C (MAX)		D (MAX)		E (MAX)		F (MAX.)		G MAX	
CONNECTOR SHELL SIZE	ENTRY SIZE				+0.00 -0.02	+0.00 -0.50										
			INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
9	02	09 / A	0.86	21.82	N/A	N/A	1.01	25.65	1.16	29.46	1.38	34.93	1.42	35.99	N/A	N/A
	03				0.26	6.60									0.56	14.22
11	02	11 / B	0.99	25.04	N/A	N/A	1.03	26.16	1.19	30.23	1.44	36.50	1.48	37.59	N/A	N/A
	03				0.32	8.13									0.63	16.00
13	02	13 / C	1.16	29.36	0.32	8.13	1.06	26.92	1.21	30.73	1.56	39.67	1.55	39.45	0.63	16.00
	03				0.45	11.43									0.75	19.05
15	02	15 / D	1.28	32.54	0.45	11.43	1.08	27.43	1.24	31.50	1.69	42.85	1.61	41.00	0.75	19.05
	03				0.57	14.48									0.89	22.61
17	02	17 / E	1.41	35.71	0.51	12.95	1.11	28.19	1.26	32.00	1.75	44.45	1.68	42.62	0.82	20.83
	03				0.64	16.26									0.95	24.13
19	02	19 / F	1.52	38.51	0.64	16.26	1.12	28.45	1.27	32.26	1.88	47.63	1.77	45.03	0.95	24.13
	03				0.76	19.30									1.07	27.18
21	02	21 / G	1.64	41.68	0.64	16.26	1.15	29.21	1.30	33.02	1.94	49.23	1.80	45.62	0.95	24.13
	03				0.82	20.83									1.13	28.07
23	02	23 / H	1.77	44.86	0.70	17.78	1.17	29.72	1.33	33.78	2.06	52.37	1.86	47.22	1.02	25.99
	03				0.95	24.13									1.26	32.00
25	02	25 / J	1.89	48.03	0.76	19.30	1.20	30.48	1.35	34.29	2.13	53.98	1.92	48.74	1.07	27.18
	03				1.01	25.65									1.32	33.53

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

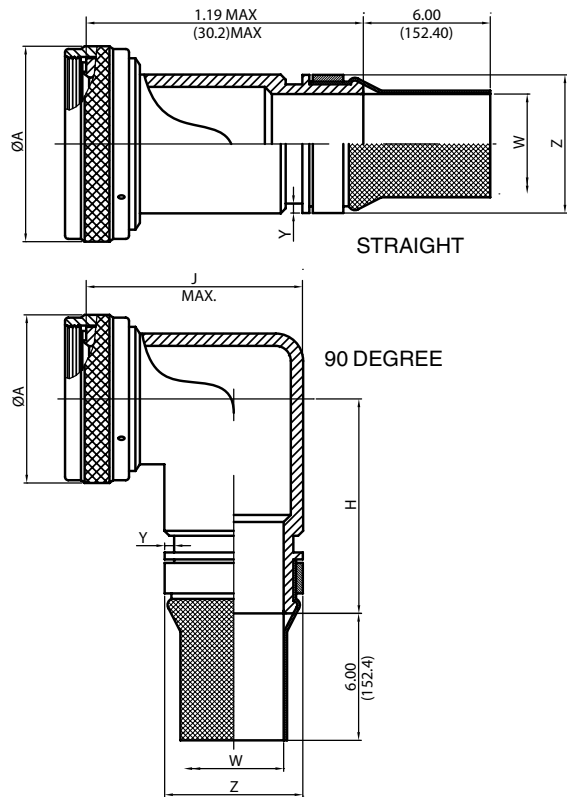
Pre-Shield Adapter

Straight, 90°, Spin Coupling/Self-Lock with Shield

For Connector Family L

38999 Series III, IV

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



MIL Part Number

M85049 / 115 - 11 T W 03 -6 D

MIL Series: M85049 / 115
 Slash Sheet: 115: Straight, 117: 90°
 Coupling: -: Spin Coupling, S: Self-Lock
 Shell Size: See Table-A
 Drain Hole Option: D
 Shield Length: 6 inches min. to 18 inches max. in 1 inch increments (6: 6 inch, 7: 7 inch, so on)
 Entry Size: See Table-A & B
 Finish: See Table-2 (pg. 486)
 Shield Finish: (Material: Copper) K: Nickel, T: Tin

TABLE - A

TABLE – A									
PART NUMBER DESIGNATOR			CONNECTOR SHELL SIZE/ CODE (REF.)	A DIA.(MAX)		H (MAX)		J (MAX)	
SHELL SIZE-MIL	ALLOWABLE ENTRY SIZE			INCH	MM	INCH	MM	INCH	MM
	MIN	MAX							
09	-	01	9 / A	0.860	21.84	1.73	43.94	0.88	22.35
11	01	03	11 / B	0.980	24.89	1.85	46.99	1.00	25.40
13	01	05	13 / C	1.160	29.46	1.87	47.50	1.13	28.70
15	03	07	15 / D	1.280	32.51	1.94	49.28	1.31	33.27
17	05	09	17 / E	1.410	35.81	2.03	51.56	1.50	38.10
19	06	10	19 / F	1.520	38.61	2.20	55.88	1.75	44.45
21	08	12	21 / G	1.640	41.66	2.20	55.88	1.75	44.45
23	09	13	23 / H	1.770	44.96	2.31	58.67	2.00	50.80
25	10	14	25 / J	1.890	48.01	2.31	58.67	2.00	50.80

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

TABLE - B

ENTRY SIZE	W ±0.020	W ±0.508	Y +0.008 -0.000	Y +0.200 -0.000	Z MAX	Z MAX
	INCH	MM	INCH	MM	INCH	MM
01	0.250	6.350	0.044	1.12	0.56	14.22
02	0.312	7.920	0.044	1.12	0.63	16.00
03	0.375	9.530	0.044	1.12	0.69	17.53
04	0.438	11.130	0.044	1.12	0.75	19.05
05	0.500	12.700	0.044	1.12	0.82	20.83
06	0.562	14.270	0.044	1.12	0.89	22.61
07	0.625	15.880	0.044	1.12	0.95	24.13
08	0.688	17.480	0.044	1.12	1.02	25.91
09	0.750	19.050	0.069	1.75	1.07	27.18
10	0.812	20.620	0.069	1.75	1.13	28.70
11	0.875	22.230	0.069	1.75	1.19	30.23
12	0.938	23.830	0.069	1.75	1.26	32.00
13	1.000	25.400	0.069	1.75	1.32	33.53
14	1.125	28.575	0.069	1.75	1.47	37.34

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

83723

III

Matrix Pyle

26500

Pyle

5015

Crimp Rear Release Matrix

22992

Class I

Back-

Shells

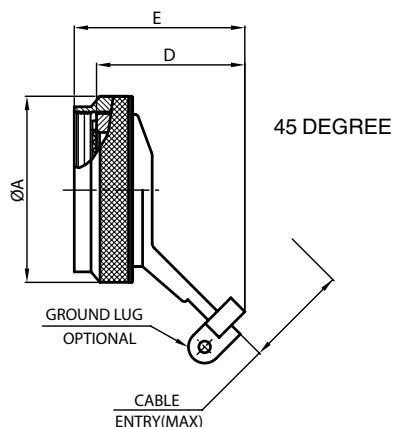
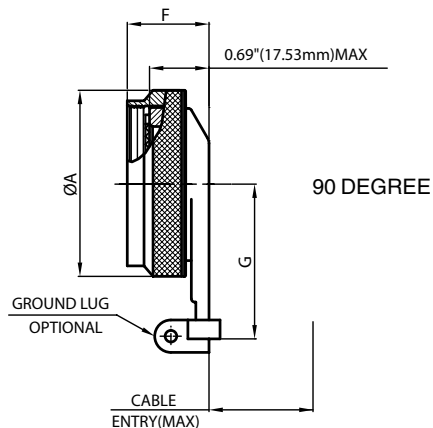
Options

Others

For Connector Family L

38999 Series III, IV

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



MIL Part Number

M85049 / 16 - 11 W

MIL Series

Slash Sheet:

16: 90°

15: 45°

Finish:

See Table-2
(pg. 486)

Shell Size:
See Table-A

Coupling:

S: Self-Lock

G: Self-Lock with
grounding Lug

-: Non Self-Lock

TABLE - A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE/ CODE (REF.)	A DIA.(MAX)		D (MAX)		E (MAX)		F (MAX)		G (MAX)		CABLE ENTRY MAX	
		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
9	9 / A	0.86	21.79	1.03	26.16	1.43	36.32	0.99	25.15	1.22	30.99	0.26	6.71
11	11 / B	0.98	24.99	1.03	26.16	1.43	36.32	0.99	25.15	1.29	32.77	0.39	9.96
13	13 / C	1.16	29.39	1.03	26.16	1.43	36.32	0.99	25.15	1.62	41.15	0.51	12.85
15	15 / D	1.28	32.49	1.09	27.69	1.93	49.02	0.99	25.15	1.66	42.16	0.63	16.03
17	17 / E	1.41	35.71	1.11	28.19	1.93	49.02	0.99	25.15	1.72	43.69	0.76	19.20
19	19 / F	1.52	38.51	1.21	30.73	2.03	51.56	0.99	25.15	1.72	43.69	0.85	21.46
21	21 / G	1.64	41.71	1.26	32.00	2.09	53.09	0.99	25.15	1.79	45.47	0.97	24.64
23	23 / H	1.77	44.91	1.30	33.02	2.09	53.09	0.99	25.15	1.85	46.99	1.10	27.81
25	25 / J	1.89	47.98	1.34	34.04	2.24	56.90	0.99	25.15	1.91	48.51	1.22	30.99

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

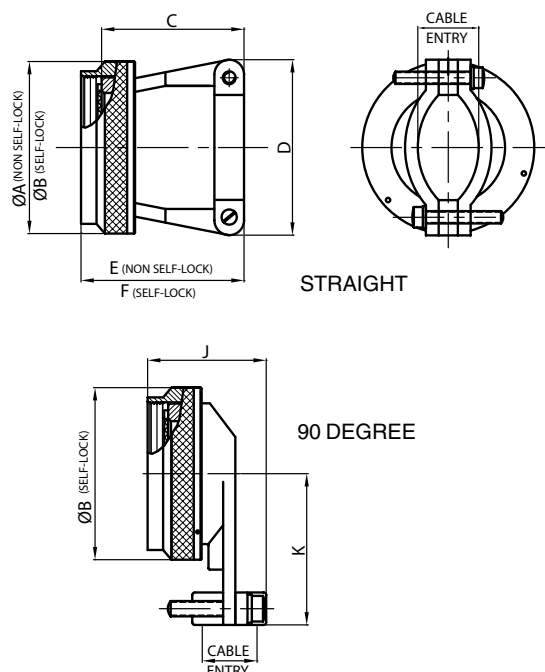
Strain Relief Clamp

Straight, 90°, Self-Lock/Non Self-Lock

For Connector Family L

38999 Series III, IV

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



MIL Part Number

M85049 / 38 - 11 W

MIL Series

Slash Sheet:

38: Straight

39: 90°

Finish:

See Table-2
(pg. 486)

Shell Size:

See Table-A

Coupling:

S: Self-Lock

-: Non Self-Lock

TABLE - A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE/ CODE (REF.)	A DIA.(MAX)		B DIA.(MAX)		C (MAX)		D (MAX)		E (MAX)		F (MAX)	
		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
09	9 / A	0.75	19.05	0.86	21.82	0.91	23.11	0.85	21.59	1.10	27.94	1.21	30.73
11	11 / B	0.85	21.59	0.98	24.99	0.91	23.11	0.90	22.86	1.10	27.94	1.21	30.73
13	13 / C	1.00	25.40	1.16	29.36	1.01	25.65	1.10	27.94	1.20	30.48	1.31	33.27
15	15 / D	1.10	27.94	1.28	32.54	1.06	26.92	1.15	29.21	1.25	31.75	1.35	34.29
17	17 / E	1.25	31.75	1.41	35.71	1.16	29.46	1.30	33.02	1.36	34.44	1.45	36.83
19	19 / F	1.40	35.56	1.52	38.51	1.41	35.81	1.50	38.10	1.60	40.64	1.71	43.43
21	21 / G	1.50	38.10	1.64	41.68	1.51	38.35	1.60	40.64	1.70	43.21	1.81	45.97
23	23 / H	1.65	41.91	1.77	44.86	1.66	42.16	1.70	43.18	1.85	46.99	1.95	49.53
25	25 / J	1.75	44.45	1.89	48.03	1.76	44.70	1.80	45.72	1.95	49.56	2.05	52.07

TABLE - A, cont.

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE/ CODE (REF.)	J (MAX)		K (MAX)		CABLE ENTRY			
		INCH	MM	INCH	MM	MIN		MAX	
						INCH	MM	INCH	MM
9	9 / A	1.31	33.27	1.00	25.40	0.10	2.49	0.23	5.94
11	11 / B	1.31	33.27	1.10	27.94	0.15	3.89	0.23	5.94
13	13 / C	1.51	38.35	1.10	27.94	0.19	4.83	0.33	8.33
15	15 / D	1.55	39.37	1.25	31.75	0.26	6.60	0.46	11.61
17	17 / E	1.71	43.43	1.30	33.02	0.28	7.19	0.61	15.60
19	19 / F	1.81	45.97	1.35	34.29	0.33	8.26	0.63	16.10
21	21 / G	1.95	49.53	1.60	40.64	0.34	8.71	0.70	17.73
23	23 / H	2.10	53.34	1.75	44.45	0.38	9.68	0.82	20.90
25	25 / J	2.21	56.13	1.85	46.99	0.42	10.62	0.85	21.67

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

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter
Transient

Matrix 2

26482

Matrix I Pyle

83723

III

Pyle

26500

5015
Crimp Rear
Release
Matrix

Class 1

22992

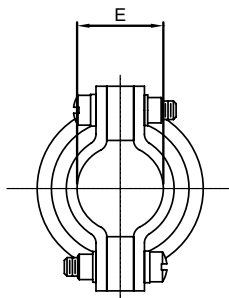
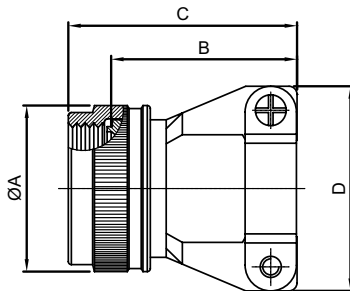
Back-
Shells

Options
Others

For Connector Family L

38999 Series III, IV

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



MIL Part Number

M85049 / 124 - 11 W

MIL Series

Slash Sheet:

124: Straight

Finish:
See Table-2
(pg. 486)

Shell Size:
See Table-A

Coupling:
S: Self-Lock
-: Non Self-Lock

TABLE - A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE/ CODE (REF.)	A DIA.(MAX)		B LENGTH		C (MAX)		D (MAX)		E (CLOSED)	
										±.031	±.787
CONNECTOR SHELL SIZE		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
09	9 / A	0.86	21.79	0.77/0.51	19.56/12.95	1.01	25.65	0.88	22.35	0.22	5.56
11	11 / B	0.98	24.99	0.89/0.64	22.61/16.26	1.13	28.70	0.94	23.88	0.26	6.71
13	13 / C	1.16	29.39	1.01/0.76	25.65/19.30	1.25	31.75	1.12	28.45	0.34	8.74
15	15 / D	1.28	32.49	1.01/0.76	25.65/19.30	1.25	31.75	1.19	30.23	0.46	11.68
17	17 / E	1.41	35.71	1.13/0.88	28.70/22.35	1.37	34.80	1.44	36.58	0.55	13.84
19	19 / F	1.52	38.51	1.38/1.13	35.05/28.70	1.62	41.15	1.56	39.62	0.62	15.62
21	21 / G	1.64	41.71	1.51/1.25	38.35/31.75	1.75	44.45	1.69	42.93	0.69	17.53
23	23 / H	1.77	44.91	1.62/1.38	41.15/35.05	1.87	47.50	1.75	44.45	0.78	19.81
25	25 / J	1.87	47.47	1.76/1.51	44.70/38.35	2.00	50.80	1.88	47.75	0.85	21.59

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

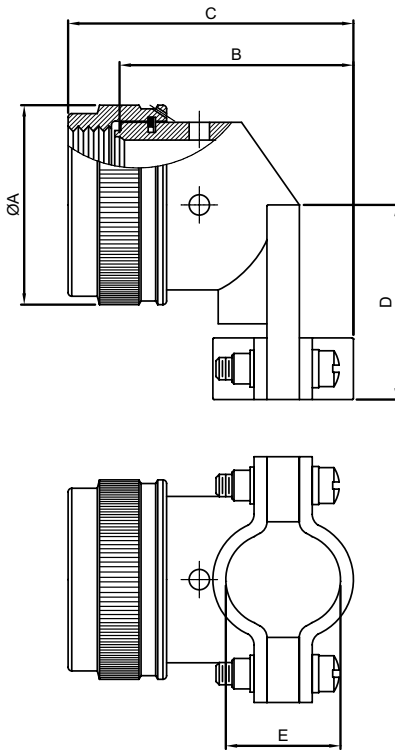
Strain Relief Clamp

90°, Self-Lock/Non Self-Lock

For Connector Family L

38999 Series III, IV

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



MIL Part Number

M85049 / 126 - 11 W

MIL Series

Slash Sheet:
126: 90°

Finish:
See Table-2
(pg. 486)

Shell Size:
See Table-A

Coupling:
S: Self-Lock
-: Non Self-Lock

TABLE - A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE/ CODE (REF.)	A DIA.(MAX)		B (MAX)		C (MAX)		D (MAX)		E (CLOSED)	
		INCH	MM	INCH	MM	INCH	MM	INCH	MM	±.031	±.787
CONNECTOR SHELL SIZE										INCH	MM
09	9 / A	0.86	21.79	0.86	21.84	1.14	28.96	0.81	20.57	0.22	5.56
11	11 / B	0.98	24.99	0.94	23.88	1.22	30.99	0.87	22.10	0.26	6.71
13	13 / C	1.16	29.39	1.14	28.96	1.42	36.07	0.93	23.62	0.34	8.74
15	15 / D	1.28	32.49	1.20	30.48	1.48	37.59	0.99	25.15	0.46	11.68
17	17 / E	1.41	35.71	1.34	34.04	1.62	41.15	1.09	27.69	0.55	13.84
19	19 / F	1.52	38.51	1.46	37.08	1.74	44.20	1.23	31.24	0.62	15.62
21	21 / G	1.64	41.71	1.58	40.13	1.86	47.24	1.30	33.02	0.70	17.73
23	23 / H	1.77	44.91	1.71	43.43	1.99	50.55	1.36	34.54	0.78	19.81
25	25 / J	1.87	47.47	1.83	46.48	2.11	53.59	1.42	36.07	0.85	21.59

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

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

High Speed
Fiber
Optics
Contacts

EMI Filter
Transient

26482
Matrix 2

83723
III
Matrix | Pyle

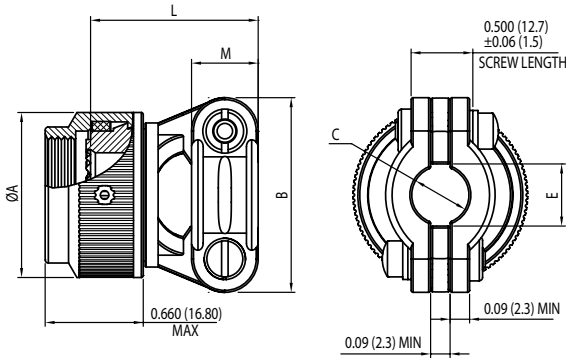
26500
Pyle

5015
Crimp Rear
Release
Matrix

22992
Class I

Back-
Shells

Options
Others



MIL Part Number

BS1	S	R	L	10	99	9	X	T	
Series:	Angle:	Coupling:	Connector Group:	Shell Size:					Material & Finish:
	S: Straight	R: Spin S: Self-Lock	MIL-DTL-38999 Series III & IV	See Table-A					T: Composite, without plating J: Composite, Cadmium Olive Drab M: Composite, Electroless Nickel
							Constant: X		
							Length:		
							9: For standard length in Table-A		
							Entry Size:		
							99: For standard entry size in Table-A		

TABLE - A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE/ CODE (REF.)	A DIA.(MAX)		B (MAX)		C (MAX)		E (MIN)		L (MAX)		M	
						±0.031	±0.78					±0.03	±0.76
		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
08	9 / A	0.858	21.79	0.980	24.89	0.219	5.56	0.229	5.82	0.840	21.34	0.375	9.53
10	11 / B	0.984	24.99	1.05	26.67	0.264	6.71	0.274	6.96	0.960	24.38	0.375	9.53
12	13 / C	1.157	29.39	1.20	30.48	0.344	8.74	0.354	8.99	1.100	27.94	0.406	10.31
14	15 / D	1.280	32.51	1.30	33.02	0.460	11.68	0.470	11.94	1.100	27.94	0.406	10.31
16	17 / E	1.406	35.71	1.42	36.07	0.545	13.84	0.555	14.10	1.230	31.24	0.406	10.31
18	19 / F	1.516	38.51	1.52	38.61	0.615	15.62	0.625	15.88	1.410	35.81	0.406	10.31
20	21 / G	1.642	41.71	1.64	41.66	0.698	17.73	0.708	17.98	1.510	38.35	0.406	10.31
22	23 / H	1.768	44.91	1.77	44.96	0.780	19.81	0.790	20.07	1.660	42.16	0.406	10.31
24	25 / J	1.890	48.01	1.89	48.01	0.850	21.59	0.860	21.84	1.760	44.70	0.406	10.31

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

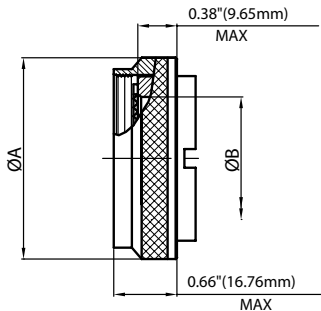
Grommet Nut

Straight, Self-Lock/Non Self-Lock

For Connector Family L

38999 Series III, IV

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



MIL Part Number

M85049 / 14 - 11 W

MIL Series: M85049 / 14
 Slash Sheet: 14: Straight
 Finish: See Table-2 (pg. 486)
 Shell Size: See Table-A
 Coupling: S: Self-Lock, -: Non Self-Lock

Note: * Slot shown in figure is optional for Non Self-Lock

TABLE - A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE/ CODE (REF.)	A DIA.(MAX)		B (MAX)	
		INCH	MM	INCH	MM
9	09 / A	0.86	21.79	0.26	6.71
11	11 / B	0.98	24.99	0.39	9.91
13	13 / C	1.16	29.39	0.50	12.80
15	15 / D	1.28	32.49	0.63	16.00
17	17 / E	1.41	35.71	0.76	19.20
19	19 / F	1.52	38.51	0.84	21.41
21	21 / G	1.64	41.71	0.97	24.64
23	23 / H	1.77	44.91	1.09	27.71
25	25 / J	1.87	47.98	1.22	30.91

All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

83723

III

Matrix I Pyle

26500

Pyle

5015

Crimp Rear Release Matrix

22992

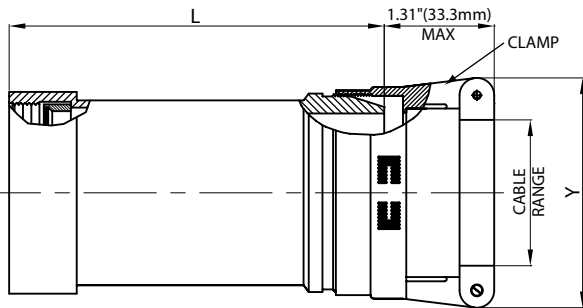
Class I

Back-

Shells

Options

Others



MIL Part Number

M85049 / 29 10 W 06 A

MIL Series: M85049 / 29
 Slash Sheet: 29: Straight, Direct Coupling
 Shell Size: 10
 Clamp Size: W
 Finish: 06
 Length: A
 Length: See Table-A (Omit for "STD")
 Clamp Size: See Table-A
 Finish: See Table- 2 (pg. 486)

TABLE A

TABLE A											
MIL PART NUMBER DESIGNATOR			CONNECTOR SHELL SIZE SE – II / I	CABLE RANGE				L (MAX)		Y (MAX)	
ACCESSORY SHELL SIZE	CLAMP SIZE	LENGTH		MIN		MAX		INCH	MM	INCH	MM
				INCH	MM	INCH	MM				
08	01	STD.	8 / 9	0.06	1.57	0.13	3.18	1.03	26.16	0.78	19.81
		A						2.03	51.56		
	02	STD.		0.13	3.18	0.25	6.35	1.03	26.16	0.97	24.64
		A						2.03	51.56		
10	01	STD.	10 / 11	0.06	1.57	0.13	3.18	1.03	26.16	0.78	19.81
		A						2.03	51.56		
	02	STD.		0.13	3.18	0.25	6.35	1.03	26.16	0.97	24.64
		A						2.03	51.56		
	03	STD.		0.25	6.35	0.38	9.53	1.03	26.16	1.06	26.92
		A						2.03	51.56		
12	02	STD.	12 / 13	0.13	3.18	0.25	6.35	1.03	26.16	0.97	24.64
		A						2.03	51.56		
	03	STD.		0.25	6.35	0.38	9.53	1.03	26.16	1.06	26.92
		A						2.03	51.56		
	04	STD.		0.31	7.92	0.50	12.70	1.03	26.16	1.16	29.46
		A						2.03	51.56		
14	02	STD.	14 / 15	0.13	3.18	0.25	6.35	1.03	26.16	0.97	24.64
		A						2.03	51.56		
		B						3.03	76.96		
	03	STD.		0.25	6.35	0.38	9.53	1.03	26.16	1.06	26.92
		A						2.03	51.56		
		B						3.03	76.96		
	04	STD.		0.31	7.92	0.50	12.70	1.03	26.16	1.16	29.46
		A						2.03	51.56		
		B						3.03	76.96		
	05	STD.		0.44	11.10	0.63	15.88	1.03	26.16	1.25	31.75
		A						2.03	51.56		
		B						3.03	76.96		

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

TABLE CONTINUES ON NEXT PAGE

For Connector Family K

38999 Series II
38999 Series I

Connector Family "K", includes MIL-DTL-38999 Series II and Series I

TABLE A											
MIL PART NUMBER DESIGNATOR			CONNECTOR SHELL SIZE SE – II / I	CABLE RANGE				L (MAX)		Y (MAX)	
ACCESSORY SHELL SIZE	CLAMP SIZE	LENGTH		MIN		MAX		INCH	MM	INCH	MM
				INCH	MM	INCH	MM				
22	03	STD.	22 / 23	0.25	6.35	0.38	9.53	1.03	26.16	1.06	26.92
		A						2.03	51.56		
		B						3.03	76.96		
		C						4.03	102.36		
	04	STD.		0.31	7.92	0.50	12.70	1.03	26.16	1.16	29.46
		A						2.03	51.56		
		B						3.03	76.96		
		C						4.03	102.36		
	05	STD.		0.44	11.10	0.63	15.88	1.03	26.16	1.25	31.75
		A						2.03	51.56		
		B						3.03	76.96		
		C						4.03	102.36		
	06	STD.		0.56	14.27	0.75	19.05	1.03	26.16	1.38	35.05
		A						2.03	51.56		
		B						3.03	76.96		
		C						4.03	102.36		
	07	STD.		0.69	17.45	0.88	22.23	1.03	26.16	1.50	38.10
		A						2.03	51.56		
		B						3.03	76.96		
		C						4.03	102.36		
	08	STD.		0.81	20.62	1.00	25.40	1.03	26.16	1.63	41.40
		A						2.03	51.56		
		B						3.03	76.96		
		C						4.03	102.36		
	09	STD.		0.94	23.80	1.13	28.58	1.03	26.16	1.75	44.45
		A						2.03	51.56		
		B						3.03	76.96		
		C						4.03	102.36		
24	04	STD.	24 / 25	0.31	7.92	0.50	12.70	1.03	26.16	1.16	29.46
		A						2.03	51.56		
		B						3.03	76.96		
		C						4.03	102.36		
	05	STD.		0.44	11.10	0.63	15.88	1.03	26.16	1.25	31.75
		A						2.03	51.56		
		B						3.03	76.96		
		C						4.03	102.36		
	06	STD.		0.56	14.27	0.75	19.05	1.03	26.16	1.38	35.05
		A						2.03	51.56		
		B						3.03	76.96		
		C						4.03	102.36		
	07	STD.		0.69	17.45	0.88	22.23	1.03	26.16	1.50	38.10
		A						2.03	51.56		
		B						3.03	76.96		
		C						4.03	102.36		
	08	STD.		0.81	20.62	1.00	25.40	1.03	26.16	1.63	41.40
		A						2.03	51.56		
		B						3.03	76.96		
		C						4.03	102.36		
	09	STD.		0.94	23.80	1.13	28.58	1.03	26.16	1.75	44.45
		A						2.03	51.56		
		B						3.03	76.96		
		C						4.03	102.36		
	10	STD.		1.06	26.97	1.25	31.75	1.03	26.16	1.88	47.75
		A						2.03	51.56		
		B						3.03	76.96		
		C						4.03	102.36		

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

Non-Environmental EMI/RFI Backshell

Straight, Direct Coupling

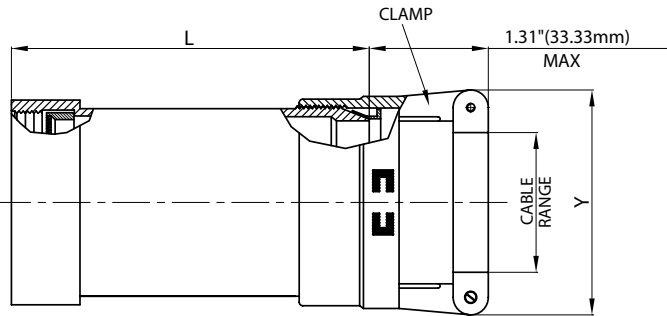
Amphenol

For Connector Family K

38999 Series II

38999 Series I

Connector Family "K", includes
MIL-DTL-38999 Series II and Series I



MIL Part Number

M85049 / 36 10 W 03 A

MIL Series

Slash Sheet:
36: Straight, Direct
Coupling

Shell Size
See Table-A

Length
See Table-A
(Omit for "STD")

Clamp Size:
See Table-A

Finish:
See Table-2
(pg. 486)

TABLE-A

TABLE-A											
MIL PART NUMBER DESIGNATOR			CONNECTOR SHELL SIZE SE – II / I	CABLE RANGE				L (MAX)		Y (MAX)	
ACCESSORY SHELL SIZE	CLAMP SIZE	LENGTH CODE		MIN		MAX		INCH	MM	INCH	MM
				INCH	MM	INCH	MM				
08	01	STD.	8 / 9	0.06	1.57	0.13	3.18	1.53	38.86	0.78	19.81
		A						2.53	64.26		
	02	STD.		0.13	3.18	0.25	6.35	1.53	38.86	0.97	24.64
		A						2.53	64.26		
10	01	STD.	10 / 11	0.06	1.57	0.13	3.18	1.53	38.86	0.78	19.81
		A						2.53	64.26		
	02	STD.		0.13	3.18	0.25	6.35	1.53	38.86	0.97	24.64
		A						2.53	64.26		
	03	STD.		0.25	6.35	0.38	9.53	1.53	38.86	1.06	26.92
		A						2.53	64.26		
12	02	STD.	12 / 13	0.13	3.18	0.25	6.35	1.53	38.86	0.97	24.64
		A						2.53	64.26		
	03	STD.		0.25	6.35	0.38	9.53	1.53	38.86	1.06	26.92
		A						2.53	64.26		
	04	STD.		0.31	7.92	0.50	12.70	1.53	38.86	1.16	29.46
		A						2.53	64.26		
14	02	STD.	14 / 15	0.13	3.18	0.25	6.35	1.53	38.86	0.97	24.64
		A						2.53	64.26		
		B						3.53	89.66		
	03	STD.		0.25	6.35	0.38	9.53	1.53	38.86	1.06	26.92
		A						2.53	64.26		
		B						3.53	89.66		
	04	STD.		0.31	7.92	0.50	12.70	1.53	38.86	1.16	29.46
		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		
16	02	STD.	16 / 17	0.13	3.18	0.25	6.35	1.53	38.86	0.97	24.64
		A						2.53	64.26		
		B						3.53	89.66		
	03	STD.		0.25	6.35	0.38	9.53	1.53	38.86	1.06	26.92
		A						2.53	64.26		
		B						3.53	89.66		
	04	STD.		0.31	7.92	0.50	12.70	1.53	38.86	1.16	29.46
		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		
06	STD.	0.56	14.27	0.75	19.05	1.53	38.86	1.38	35.05		
	A					2.53	64.26				
	B					3.53	89.66				

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

TABLE CONTINUES ON NEXT PAGE

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

83723

III

Matrix | Pyle

Pyle

26500

5015

Crimp Rear Release Matrix

22992

Class I

Back-

Shells

Options

Others

For Connector Family K

38999 Series II

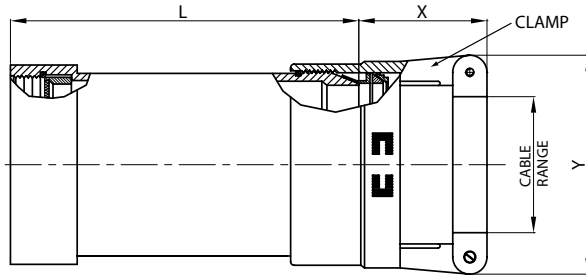
38999 Series I

Connector Family "K", includes MIL-DTL-38999 Series II and Series I

TABLE-A, cont.											
MIL PART NUMBER DESIGNATOR			CONNECTOR SHELL SIZE SE – II / I	CABLE RANGE				L (MAX)		Y (MAX)	
ACCESSORY SHELL SIZE	CLAMP SIZE	LENGTH CODE		MIN		MAX		INCH	MM	INCH	MM
				INCH	MM	INCH	MM				
18	03	STD.	18 / 19	0.25	6.35	0.38	9.53	1.53	38.86	1.06	26.92
		A						2.53	64.26		
		B						3.53	89.66		
	04	STD.		0.31	7.92	0.50	12.70	1.53	38.86	1.16	29.46
		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		
	06	STD.		0.56	14.27	0.75	19.05	1.53	38.86	1.38	35.05
		A						2.53	64.26		
		B						3.53	89.66		
	07	STD.		0.69	17.45	0.88	22.23	1.53	38.86	1.50	38.10
		A						2.53	64.26		
		B						3.53	89.66		
	20	03		STD.	20 / 21	0.25	6.35	0.38	9.53	1.53	38.86
A			2.53	64.26							
B			3.53	89.66							
C			4.53	115.06							
04		STD.	0.31	7.92		0.50	12.70	1.53	38.86	1.16	29.46
		A						2.53	64.26		
		B						3.53	89.66		
		C						4.53	115.06		
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		
		C						4.53	115.06		
06		STD.	0.56	14.27		0.75	19.05	1.53	38.86	1.38	35.05
		A						2.53	64.26		
		B						3.53	89.66		
		C						4.53	115.06		
07		STD.	0.69	17.45		0.88	22.23	1.53	38.86	1.50	38.10
		A						2.53	64.26		
		B						3.53	89.66		
		C						4.53	115.06		
08		STD.	0.81	20.62		1.00	25.40	1.53	38.86	1.63	41.40
		A						2.53	64.26		
		B						3.53	89.66		
		C						4.53	115.06		

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

TABLE CONTINUES ON NEXT PAGE



MIL Part Number

M85049 / 17 10 W 03 A

MIL Series ——— Length
 See Table-A
 (Omit for "STD")

Slash Sheet:
 17: Straight, Direct
 Coupling ——— Clamp Size:
 See Table-A

Shell Size ——— Finish:
 See Table-A ——— See Table-2
 (pg. 486)

TABLE - A

TABLE – A													
MIL PART NUMBER DESIGNATOR		LENGTH	CONNECTOR SHELL SIZE SE – II/I	CABLE RANGE				L (MAX)		X (MAX)		Y (MAX)	
ACCESSORY SHELL SIZE	CLAMP SIZE			MIN		MAX		INCH	MM	INCH	MM	INCH	MM
				INCH	MM	INCH	MM						
08	01	STD.	8 / 9	0.06	1.57	0.13	3.18	1.53	38.86	1.25	31.75	0.78	19.81
		A						2.53	64.26				
	02	STD.		0.13	3.18	0.25	6.35	1.53	38.86	1.25	31.75	0.97	24.64
		A						2.53	64.26				
10	01	STD.	10 / 11	0.06	1.57	0.13	3.18	1.53	38.86	1.25	31.75	0.78	19.81
		A						2.53	64.26				
	02	STD.		0.13	3.18	0.25	6.35	1.53	38.86	1.25	31.75	0.97	24.64
		A						2.53	64.26				
	03	STD.		0.25	6.35	0.38	9.53	1.53	38.86	1.25	31.75	1.06	26.92
		A						2.53	64.26				
12	02	STD.	12 / 13	0.13	3.18	0.25	6.35	1.53	38.86	1.25	31.75	0.97	24.64
		A						2.53	64.26				
	03	STD.		0.25	6.35	0.38	9.53	1.53	38.86	1.25	31.75	1.06	26.92
		A						2.53	64.26				
	04	STD.		0.38	9.53	0.50	12.70	1.53	38.86	1.25	31.75	1.16	29.46
		A						2.53	64.26				
14	02	STD.	14 / 15	0.13	3.18	0.25	6.35	1.53	38.86	1.25	31.75	0.97	24.64
		A						2.53	64.26				
		B						3.53	89.66				
	03	STD.		0.25	6.35	0.38	9.53	1.53	38.86	1.25	31.75	1.06	26.92
		A						2.53	64.26				
		B						3.53	89.66				
	04	STD.		0.38	9.53	0.50	12.70	1.53	38.86	1.25	31.75	1.16	29.46
		A						2.53	64.26				
		B						3.53	89.66				
05	STD.	0.50	12.70	0.63	15.88	1.53	38.86	1.31	33.27	1.25	31.75		
	A					2.53	64.26						
	B					3.53	89.66						
16	02	STD.	16 / 17	0.13	3.18	0.25	6.35	1.53	38.86	1.25	31.75	0.97	24.64
		A						2.53	64.26				
		B						3.53	89.66				
	03	STD.		0.25	6.35	0.38	9.53	1.53	38.86	1.25	31.75	1.06	26.92
		A						2.53	64.26				
		B						3.53	89.66				
	04	STD.		0.38	9.53	0.50	12.70	1.53	38.86	1.25	31.75	1.16	29.46
		A						2.53	64.26				
		B						3.53	89.66				
	05	STD.		0.50	12.70	0.63	15.88	1.53	38.86	1.31	33.27	1.25	31.75
		A						2.53	64.26				
		B						3.53	89.66				
	06	STD.		0.63	15.88	0.75	19.05	1.53	38.86	1.38	35.05	1.38	35.05
		A						2.53	64.26				
		B						3.53	89.66				

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

TABLE CONTINUES ON NEXT PAGE

For Connector Family K

38999 Series II
38999 Series I

 Connector Family "K", includes
MIL-DTL-38999 Series II and Series I

TABLE – A, cont.																			
MIL PART NUMBER DESIGNATOR		CONNECTOR SHELL SIZE SE – II/I	LENGTH	CABLE RANGE				L (MAX)		X (MAX)		Y (MAX)							
ACCESSORY SHELL SIZE	CLAMP SIZE			MIN		MAX		INCH	MM	INCH	MM	INCH	MM						
				INCH	MM	INCH	MM												
18	03	18 / 19	STD.	0.25	6.35	0.38	9.53	1.53	38.86	1.25	31.75	1.06	26.92						
			A					2.53	64.26										
			B					3.53	89.66										
	04		STD.	0.38	9.53	0.50	12.70	1.53	38.86	1.25	31.75	1.16	29.46						
			A					2.53	64.26										
			B					3.53	89.66										
	05		STD.	0.50	12.70	0.63	15.88	1.53	38.86	1.31	33.27	1.25	31.75						
			A					2.53	64.26										
			B					3.53	89.66										
	06		STD.	0.63	15.88	0.75	19.05	1.53	38.86	1.38	35.05	1.38	35.05						
			A					2.53	64.26										
			B					3.53	89.66										
STD.		0.75	19.05					0.88	22.23					1.53	38.86	1.50	38.10	1.50	38.10
A														2.53	64.26				
B														3.53	89.66				
20	03	20 / 21	STD.	0.25	6.35	0.38	9.53	1.53	38.86	1.25	31.75	1.06	26.92						
			A					2.53	64.26										
			B					3.53	89.66										
			C					4.53	115.06										
	04		STD.	0.38	9.53	0.50	12.70	1.53	38.86	1.25	31.75	1.16	29.46						
			A					2.53	64.26										
			B					3.53	89.66										
			C					4.53	115.06										
	05		STD.	0.50	12.70	0.63	15.88	1.53	38.86	1.31	33.27	1.25	31.75						
			A					2.53	64.26										
			B					3.53	89.66										
			C					4.53	115.06										
06	STD.	0.63	15.88	0.75	19.05	1.53	38.86	1.38	35.05	1.38	35.05								
	A					2.53	64.26												
	B					3.53	89.66												
	C					4.53	115.06												
	STD.					0.75	19.05					0.88	22.23	1.53	38.86	1.50	38.10	1.50	38.10
	A													2.53	64.26				
	B													3.53	89.66				
	C													4.53	115.06				
08	STD.	0.88	22.23	1.00	25.40	1.53	38.86	1.63	41.40	1.63	41.40								
	A					2.53	64.26												
	B					3.53	89.66												
	C					4.53	115.06												
22	03	22 / 23	STD.	0.25	6.35	0.38	9.53	1.53	38.86	1.25	31.75	1.06	26.92						
			A					2.53	64.26										
			B					3.53	89.66										
			C					4.53	115.06										
	04		STD.	0.38	9.53	0.50	12.70	1.53	38.86	1.25	31.75	1.16	29.46						
			A					2.53	64.26										
			B					3.53	89.66										
			C					4.53	115.06										
	05		STD.	0.50	12.70	0.63	15.88	1.53	38.86	1.31	33.27	1.25	31.75						
			A					2.53	64.26										
			B					3.53	89.66										
			C					4.53	115.06										
06	STD.	0.63	15.88	0.75	19.05	1.53	38.86	1.38	35.05	1.38	35.05								
	A					2.53	64.26												
	B					3.53	89.66												
	C					4.53	115.06												

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

TABLE CONTINUES ON NEXT PAGE

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

 EMI Filter
Transient

Matrix 2

26482

Matrix I Pyle

83723

III

Pyle

26500

 Crimp Rear
Release
Matrix

5015

Class I

22992

 Back-
Shells

 Options
Others

For Connector Family K

38999 Series II

38999 Series I

Connector Family "K", includes MIL-DTL-38999 Series II and Series I

TABLE – A, cont.													
MIL PART NUMBER DESIGNATOR		CONNECTOR SHELL SIZE SE – II / I	LENGTH	CABLE RANGE				L (MAX)		X (MAX)		Y (MAX)	
ACCESSORY SHELL SIZE	CLAMP SIZE			MIN		MAX		INCH	MM	INCH	MM	INCH	MM
				INCH	MM	INCH	MM						
22, cont.	07	22 / 23	STD.	0.75	19.05	0.88	22.23	1.53	38.86	1.50	38.10	1.50	38.10
			A					2.53	64.26				
			B					3.53	89.66				
			C					4.53	115.06				
	08		STD.	0.88	22.23	1.00	25.40	1.53	38.86	1.63	41.40	1.63	41.40
			A					2.53	64.26				
			B					3.53	89.66				
			C					4.53	115.06				
	09		STD.	1.00	25.40	1.13	28.58	1.53	38.86	1.63	41.40	1.75	44.45
			A					2.53	64.26				
			B					3.53	89.66				
			C					4.53	115.06				
24	04	24 / 25	STD.	0.38	9.53	0.50	12.70	1.53	38.86	1.25	31.75	1.16	29.46
			A					2.53	64.26				
			B					3.53	89.66				
			C					4.53	115.06				
	05		STD.	0.50	12.70	0.63	15.88	1.53	38.86	1.31	33.27	1.25	31.75
			A					2.53	64.26				
			B					3.53	89.66				
			C					4.53	115.06				
	06		STD.	0.63	15.88	0.75	19.05	1.53	38.86	1.38	35.05	1.38	35.05
			A					2.53	64.26				
			B					3.53	89.66				
			C					4.53	115.06				
	07		STD.	0.75	19.05	0.88	22.23	1.53	38.86	1.50	38.10	1.50	38.10
			A					2.53	64.26				
			B					3.53	89.66				
			C					4.53	115.06				
	08		STD.	0.88	22.23	1.00	25.40	1.53	38.86	1.63	41.40	1.63	41.40
			A					2.53	64.26				
			B					3.53	89.66				
			C					4.53	115.06				
	09		STD.	1.00	25.40	1.13	28.58	1.53	38.86	1.63	41.40	1.75	44.45
			A					2.53	64.26				
			B					3.53	89.66				
			C					4.53	115.06				
	10		STD.	1.13	28.58	1.25	31.75	1.53	38.86	1.63	41.40	1.88	47.75
			A					2.53	64.26				
			B					3.53	89.66				
			C					4.53	115.06				

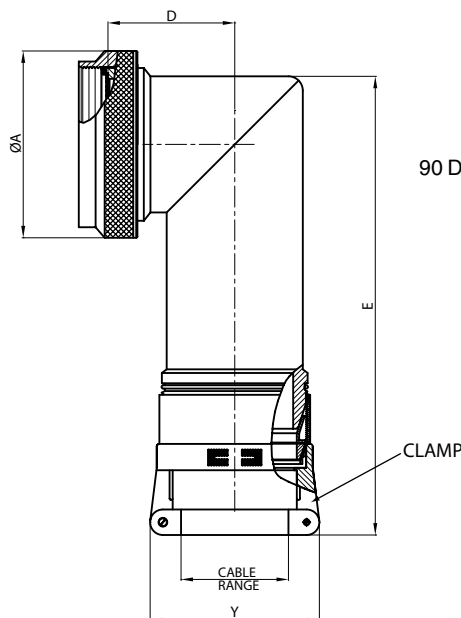
Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

For Connector Family K

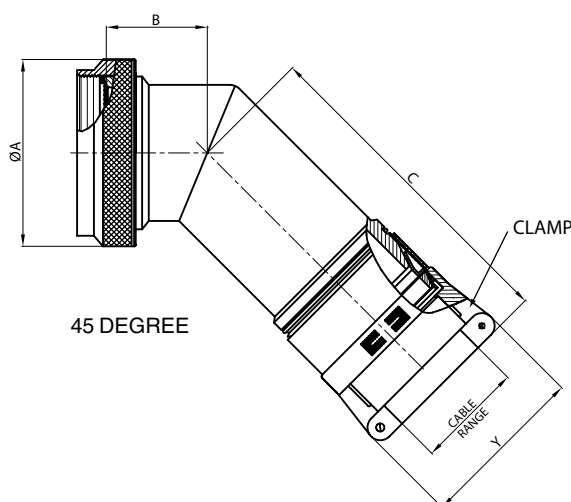
38999 Series II

38999 Series I

Connector Family "K", includes
MIL-DTL-38999 Series II and Series I



90 DEGREE



45 DEGREE

MIL Part Number

M85049 / 76 10 W 01

MIL Series

Slash Sheet:
76: 90° Spin Coupling
77: 45° Spin Coupling

Shell Size
See Table-B

Clamp Size:
See Table-B

Finish:
See Table-2
(pg. 486)

TABLE - B

TABLE – B																		
MIL PART NUMBER DESIGNATOR		CONNECTOR SHELL SIZE SE – II / I	CABLE RANGE				A DIA. (MAX)		B (MAX)		C (MAX)		D (MAX)		E (MAX)		Y (MAX)	
ACCESSORY SHELL SIZE	CLAMP SIZE		MIN		MAX		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
			INCH	MM	INCH	MM												
08	01	8 / 9	0.06	1.57	0.13	3.18	0.75	19.05	0.46	11.68	3.15	80.01	0.69	17.53	3.46	87.88	0.80	20.32
	02		0.13	3.18	0.25	6.35											1.00	25.40
10	01	10 / 11	0.06	1.57	0.13	3.18	0.85	21.59	0.52	13.21	3.21	81.53	0.78	19.81	3.58	90.93	0.80	20.32
	02		0.13	3.18	0.25	6.35											1.00	25.40
	03		0.25	6.35	0.38	9.53											1.10	27.94
12	02	12 / 13	0.13	3.18	0.25	6.35	1.00	25.40	0.58	14.73	3.27	83.06	0.80	20.32	3.60	91.44	1.00	25.40
	03		0.25	6.35	0.38	9.53											1.10	27.94
	04		0.38	9.53	0.50	12.70											1.20	30.48
14	02	14 / 15	0.13	3.18	0.25	6.35	1.15	29.21	0.65	16.51	3.36	85.34	0.88	22.35	3.67	93.22	1.00	25.40
	03		0.25	6.35	0.38	9.53											1.10	27.94
	04		0.38	9.53	0.50	12.70											1.20	30.48
	05		0.50	12.70	0.63	15.88											1.25	31.75
16	02	16 / 17	0.13	3.18	0.25	6.35	1.25	31.75	0.74	18.80	3.47	88.14	0.93	23.62	3.76	95.50	1.00	25.40
	03		0.25	6.35	0.38	9.53											1.10	27.94
	04		0.38	9.53	0.50	12.70											1.20	30.48
	05		0.50	12.70	0.63	15.88											1.25	31.75
	06		0.63	15.88	0.75	19.05											1.40	35.56
18	03	18 / 19	0.25	6.35	0.38	9.53	1.40	35.56	0.93	23.62	3.66	92.96	1.01	25.65	3.93	99.82	1.10	27.94
	04		0.38	9.53	0.50	12.70											1.20	30.48
	05		0.50	12.70	0.63	15.88											1.25	31.75
	06		0.63	15.88	0.75	19.05											1.40	35.56
	07		0.75	19.05	0.88	22.23											1.50	38.10

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

TABLE CONTINUES ON NEXT PAGE

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

High Speed
Fiber
Optics
Contacts

EMI Filter
Transient

Matrix 2
26482

Matrix I Pyle
III
83723

Pyle
26500

Crimp Rear
Release
Matrix
5015

Class I
22992

Back-
Shells

Options
Others

For Connector Family K

38999 Series II

38999 Series I

Connector Family "K", includes MIL-DTL-38999 Series II and Series I

TABLE - B

TABLE – B																		
MIL PART NUMBER DESIGNATOR		CONNECTOR SHELL SIZE SE – II / I	CABLE RANGE				A DIA. (MAX)		B (MAX)		C (MAX)		D (MAX)		E (MAX)		Y (MAX)	
ACCESSORY SHELL SIZE	CLAMP SIZE		MIN		MAX		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
			INCH	MM	INCH	MM												
20	03	20 / 21	0.25	6.35	0.38	9.53	1.55	39.37	0.93	23.62	3.66	92.96	1.06	26.92	3.93	99.82	1.10	27.94
	04		0.38	9.53	0.50	12.70											1.20	30.48
	05		0.50	12.70	0.63	15.88											1.25	31.75
	06		0.63	15.88	0.75	19.05											1.40	35.56
	07		0.75	19.05	0.88	22.23											1.50	38.10
	08		0.88	22.23	1.00	25.40											1.65	41.91
22	03	22 /23	0.25	6.35	0.38	9.53	1.65	41.91	1.02	25.91	3.81	96.77	1.17	29.72	4.04	102.62	1.10	27.94
	04		0.38	9.53	0.50	12.70											1.20	30.48
	05		0.50	12.70	0.63	15.88											1.25	31.75
	06		0.63	15.88	0.75	19.05											1.40	35.56
	07		0.75	19.05	0.88	22.23											1.50	38.10
	08		0.88	22.23	1.00	25.40											1.65	41.91
24	09	24 / 25	1.00	25.40	1.13	28.58	1.85	46.99	1.02	25.91	3.81	96.77	1.18	29.97	4.04	102.62	1.75	44.45
	04		0.38	9.53	0.50	12.70											1.20	30.48
	05		0.50	12.70	0.63	15.88											1.25	31.75
	06		0.63	15.88	0.75	19.05											1.40	35.56
	07		0.75	19.05	0.88	22.23											1.50	38.10
	08		0.88	22.23	1.00	25.40											1.65	41.91
	09		1.00	25.40	1.13	28.58											1.75	44.45
	10		1.13	28.58	1.25	31.75									1.90	48.26		

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

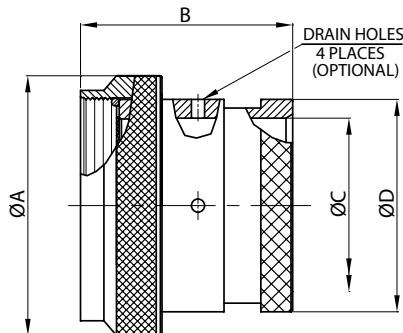
Shrink Boot Adapter Straight Spin Coupling

For Connector Family K

38999 Series II

38999 Series I

Connector Family "K", includes
MIL-DTL-38999 Series II and Series I



MIL Part Number

M85049 / 62 10 W D

MIL Series: M85049 / 62
Slash Sheet: 10
Finish: See Table-2 (pg. 486)
Dash Number: See Table-A
D: Drain hole Option

TABLE-A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE SE - II/I	A DIA. (MAX)		B (MAX)		C DIA. (MIN)		D DIA. (MAX)	
		INCH	MM	INCH	MM	INCH	MM	INCH	MM
08	8 / 9	0.75	19.05	1.00	25.40	0.25	6.35	0.53	13.54
10	10 / 11	0.85	21.59	1.00	25.40	0.38	9.53	0.61	15.37
12	12 / 13	1.00	25.40	1.00	25.40	0.50	12.70	0.77	19.66
14	14 / 15	1.10	27.94	1.00	25.40	0.63	15.88	0.84	21.29
16	16 / 17	1.25	31.75	1.00	25.40	0.75	19.05	0.94	23.77
18	18 / 19	1.40	35.56	1.00	25.40	0.81	20.62	1.04	26.47
20	20 / 21	1.50	38.10	1.00	25.40	0.94	23.80	1.22	30.91
22	22 / 23	1.65	41.91	1.00	25.40	1.06	26.97	1.36	34.42
24	24 / 25	1.75	44.45	1.00	25.40	1.19	30.18	1.44	36.65

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

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

83723

III

Matrix I Pyle

Pyle

26500

5015

Crimp Rear Release Matrix

22992

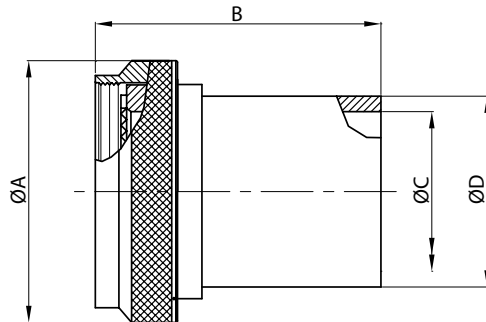
Class I

Back-

Shells

Options

Others



MIL Part Number

M85049 / 33 -2 -10 W
 MIL Series: M85049 / 33
 Slash Sheet: 33: Straight, Spin Coupling
 Finish: See Table-2 (pg. 486)
 Dash Number: See Table-A
 Adapter without Crimp Ring

Refer to page 544 for ordering details of ring.

TABLE - A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE SE - II/I	A DIA.(MAX)		B (MAX)		C DIA.(MAX)		D DIA.(MAX)	
		INCH	MM	INCH	MM	INCH	MM	INCH	MM
DASH NO									
08	8 / 9	0.75	19.05	1.14	28.96	0.27	6.86	0.35	8.89
10	10 / 11	0.85	21.59	1.14	28.96	0.34	8.64	0.50	12.70
12	12 / 13	1.00	25.40	1.14	28.96	0.44	11.18	0.51	12.95
14	14 / 15	1.10	27.94	1.14	28.96	0.56	14.22	0.63	16.00
16	16 / 17	1.25	31.75	1.14	28.96	0.69	17.53	0.76	19.30
18	18 / 19	1.40	35.56	1.14	28.96	0.80	20.32	0.89	22.61
20	20 / 21	1.50	38.10	1.14	28.96	0.93	23.62	1.01	25.65
22	22 / 23	1.65	41.91	1.14	28.96	1.05	26.67	1.13	28.70
24	24 / 25	1.75	44.45	1.14	28.96	1.13	28.70	1.20	30.48

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

Band Lock Adapter

Straight, 90° and 45° Self-Lock

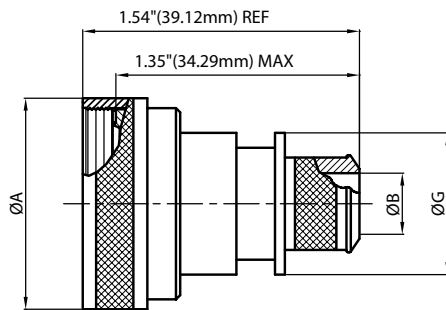
Amphenol

For Connector Family K

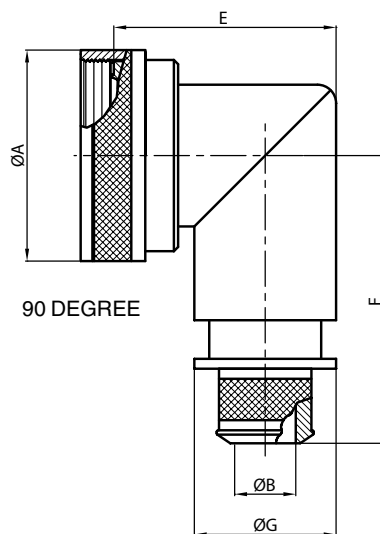
38999 Series II

38999 Series I

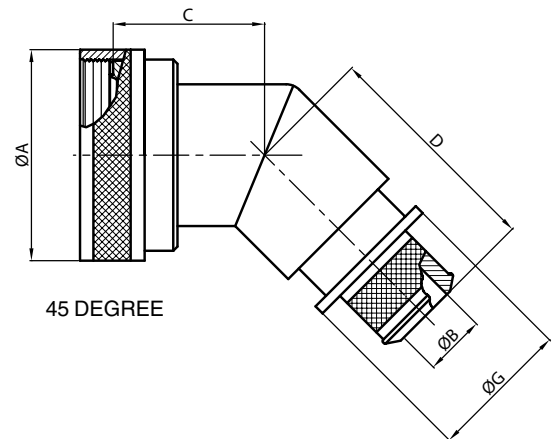
Connector Family "K", includes
MIL-DTL-38999 Series II and Series I



STRAIGHT



90 DEGREE



45 DEGREE

MIL Part Number

M85049 / 85 -10 W 02

MIL Series

Slash Sheet:
85: Straight, Self-Lock
87: 90°, Self-Lock
86: 45°, Self-Lock

Entry Size:
See Table-A

Finish:
See Table-2
(pg. 486)

Shell Size
See Table-A

TABLE-A

MIL PART NUMBER DESIGNATOR		CONNECTOR SHELL SIZE SE - II / I	A DIA. (MAX)		B DIA. (MAX)		C (MAX)		D (MAX)		E (MAX)		F (MAX.)		G MAX	
ACCESSORY SHELL SIZE	ENTRY SIZE		INCH	MM	+0.00 -0.02	+0.00 -0.50	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
08	03	8 / 9	0.86	21.82	0.26	6.60	0.87	22.10	1.16	29.46	1.38	34.93	1.42	35.99	0.56	14.22
10	03	10 / 11	0.99	25.04	0.32	8.13	0.90	22.86	1.19	30.23	1.44	36.50	1.48	37.59	0.63	16.00
12	02	12 / 13	1.16	29.36	0.32	8.13	0.92	23.37	1.21	30.73	1.56	39.67	1.55	39.45	0.63	16.00
	03				0.45	11.43									0.75	19.05
14	02	14 / 15	1.28	32.54	0.45	11.43	0.95	24.13	1.24	31.50	1.69	42.85	1.61	41.00	0.75	19.05
	03				0.57	14.48									0.89	22.61
16	02	16 / 17	1.41	35.71	0.51	12.95	0.98	24.89	1.26	32.00	1.75	44.45	1.68	42.62	0.82	20.83
	03				0.64	16.26									0.95	24.13
18	02	18 / 19	1.52	38.51	0.64	16.26	0.98	24.89	1.27	32.26	1.88	47.63	1.73	44.02	0.95	24.13
	03				0.76	19.30									1.07	27.18
20	02	20 / 21	1.64	41.68	0.64	16.26	1.01	25.65	1.30	33.02	1.94	49.23	1.80	45.62	0.95	24.13
	03				0.82	20.83									1.13	28.07
22	02	22 / 23	1.77	44.86	0.70	17.78	1.04	26.42	1.33	33.78	2.06	52.37	1.86	47.22	1.02	25.99
	03				0.95	24.13									1.26	32.00
24	02	24 / 25	1.89	48.03	0.76	19.30	1.07	27.18	1.35	34.29	2.13	53.98	1.92	48.74	1.07	27.18
	03				1.01	25.65									1.32	33.53

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

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber Optics
High Speed
Contacts

EMI Filter
Transient

Matrix 2
26482

Matrix I Pyle
83723
III

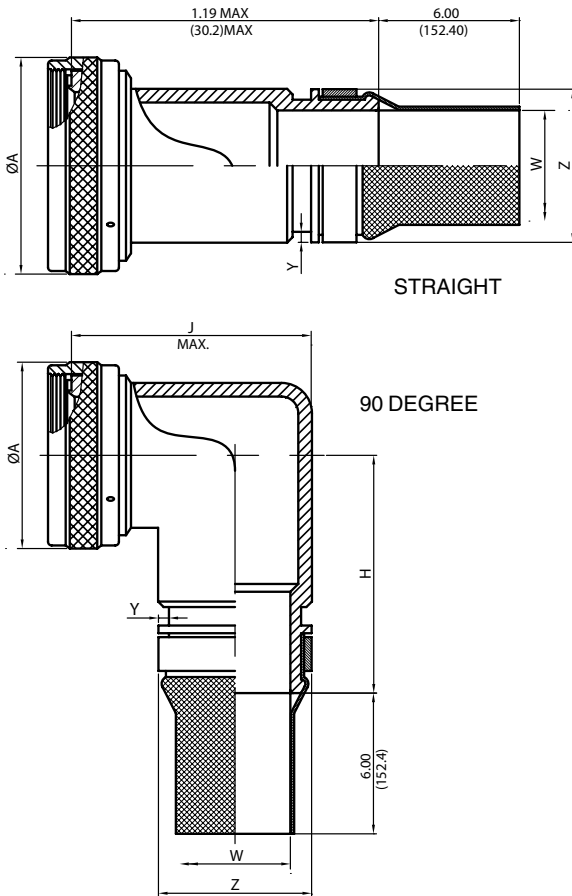
Pyle
26500

Crimp Rear Release
Matrix
5015

Class I
22992

Back-Shell

Options
Others



MIL Part Number

M85049 / 112 - 10 T W 03 -6 D

MIL Series	112	-	10	T	W	03	-6	D	Drain Hole Option
Slash Sheet:	112: Straight								Shield Length: 6 inches min. 18 inches max. 1 inch increments 6: 6 inch, 7: 7 inch, so on
Coupling:	114: 90°								Entry Size: See Table-A & B
-: Spin Coupling									Finish: See Table-2 (pg. 486)
S: Self-Lock									Shield Finish: (Material: Copper) K: Nickel T: Tin
Shell Size:									
See Table-A									

TABLE - A

TABLE – A									
MIL PART NUMBER DESIGNATOR			CONNECTOR SHELL SIZE SE – II / I	A DIA.(MAX)		H (MAX)		J (MAX)	
ACCESSORY SHELL SIZE	ALLOWABLE ENTRY SIZE			INCH	MM	INCH	MM	INCH	MM
	MIN	MAX							
08	-	01	8/9	0.860	21.84	1.73	43.94	1.07	27.18
10	01	03	10/11	0.980	24.89	1.85	46.99	1.19	30.23
12	01	05	12/13	1.160	29.46	1.87	47.50	1.32	33.53
14	03	07	14/15	1.280	32.51	1.94	49.28	1.44	36.58
16	05	09	16/17	1.410	35.81	2.03	51.56	1.57	39.88
18	06	10	18/19	1.520	38.61	2.20	55.88	1.75	44.45
20	08	12	20/21	1.640	41.66	2.20	55.88	1.75	44.45
22	09	13	22/23	1.770	44.96	2.31	58.67	2.00	50.80
24	10	14	24/25	1.890	48.01	2.31	58.67	2.00	50.80

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

TABLE - B

ENTRY SIZE	W	W	Y	Y	Z	Z
	±0.020	±0.508	+0.008	+0.200	MAX	MAX
	-0.000	-0.000	-0.000	-0.000	INCH	MM
01	0.250	6.350	0.044	1.12	0.56	14.22
02	0.312	7.920	0.044	1.12	0.63	16.00
03	0.375	9.530	0.044	1.12	0.69	17.53
04	0.438	11.130	0.044	1.12	0.75	19.05
05	0.500	12.700	0.044	1.12	0.82	20.83
06	0.562	14.270	0.044	1.12	0.89	22.61
07	0.625	15.880	0.044	1.12	0.95	24.13
08	0.688	17.480	0.044	1.12	1.02	25.91
09	0.750	19.050	0.069	1.75	1.07	27.18
10	0.812	20.620	0.069	1.75	1.13	28.70
11	0.875	22.230	0.069	1.75	1.19	30.23
12	0.938	23.830	0.069	1.75	1.26	32.00
13	1.000	25.400	0.069	1.75	1.32	33.53
14	1.125	28.575	0.069	1.75	1.47	37.34

Quick Clamp

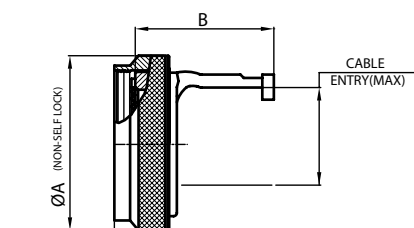
Straight, 90° and 45° Self-Lock/Non Self-Lock

For Connector Family K

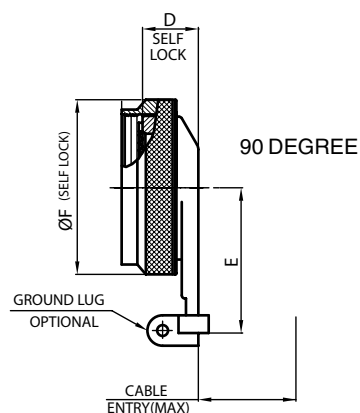
38999 Series II

38999 Series I

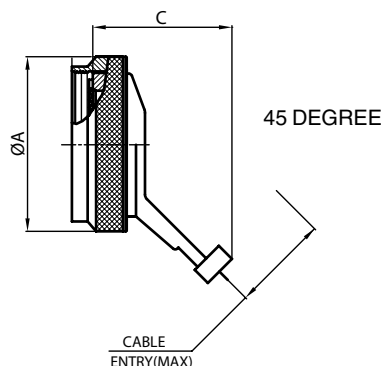
Connector Family "K", includes
MIL-DTL-38999 Series II and Series I



STRAIGHT



90 DEGREE



45 DEGREE

MIL Part Number

M85049 / 56 - 10 W

MIL Series

Slash Sheet:

56: Straight

63: 90°

57: 45°

Finish:

See Table-2

(pg. 486)

Dash Number:

See Table-A

Coupling:

S: Self-Lock (only for 90° and 45°)

G: Self-Lock with

grounding Lug (only for 90° and 45°)

-: Non Self-Lock

TABLE - A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE SE - II / I	A DIA.(MAX)		B (MAX)		C (MAX)		D (MAX)		E (MAX)		F DIA.(MAX)		CABLE ENTRY MAX	
		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
8	8 / 9	0.66	16.69	0.95	24.23	1.23	31.29	0.73	18.54	1.22	30.99	0.89	22.48	0.26	6.60
10	10 / 11	0.78	19.86	0.95	24.23	1.23	31.29	0.73	18.54	1.29	32.77	1.01	25.65	0.37	9.27
12	12 / 13	0.94	23.80	0.95	24.23	1.23	31.29	0.73	18.54	1.62	41.15	1.14	28.83	0.50	12.73
14	14 / 15	1.05	26.67	1.20	30.58	1.23	31.29	0.73	18.54	1.66	42.16	1.26	32.00	0.58	14.61
16	16 / 17	1.24	31.47	1.20	30.58	1.23	31.29	0.73	18.54	1.72	43.69	1.39	35.18	0.70	17.78
18	18 / 19	1.38	35.00	1.20	30.58	1.23	31.29	0.73	18.54	1.72	43.69	1.51	38.35	0.78	19.79
20	20 / 21	1.50	38.10	1.31	33.27	1.48	37.64	0.75	19.05	1.79	45.47	1.64	41.53	0.90	22.96
22	22 / 23	1.63	41.43	1.43	36.32	1.48	37.64	0.75	19.05	1.85	46.99	1.76	44.70	1.03	26.14
24	24 / 25	1.75	44.45	1.56	39.62	1.48	37.64	0.75	19.05	1.91	48.51	1.89	47.88	1.14	29.06

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

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

High Speed
Fiber
Optics
Contacts

EMI Filter
Transient

26482
Matrix 2

83723
III
Matrix | Pyle

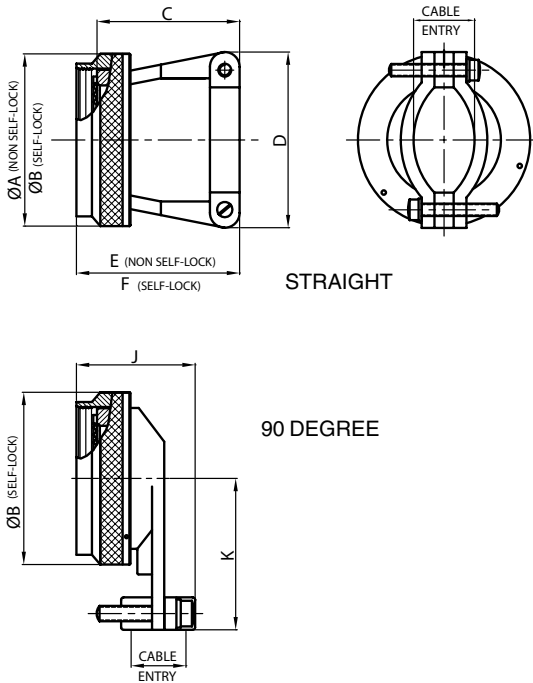
26500
Pyle

5015
Crimp Rear
Release
Matrix

22992
Class I

Back-
Shells

Options
Others



MIL Part Number

M85049 / 47 - 10 W

MIL Series

Slash Sheet:

49-2: Straight

47: 90°

 Finish:
See Table-2
(pg. 486)

 Dash Number:
See Table-A

 Coupling:
S: Self-Lock
-: Non Self-Lock

TABLE - A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE SE - II/I	A DIA.(MAX)		B DIA.(MAX)		C (MAX)		D (MAX)		E (MAX)		F (MAX)	
		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
08	8 / 9	0.75	19.05	0.86	21.82	0.91	23.11	0.85	21.59	1.10	27.94	1.15	29.21
10	10 / 11	0.85	21.59	0.98	24.99	0.91	23.11	0.90	22.86	1.10	27.94	1.15	29.21
12	12 / 13	1.00	25.40	1.16	29.36	1.01	25.65	1.10	27.94	1.20	30.48	1.25	31.75
14	14 / 15	1.10	27.94	1.28	32.54	1.06	26.92	1.15	29.21	1.25	31.75	1.30	33.02
16	16 / 17	1.25	31.75	1.41	35.71	1.16	29.46	1.30	33.02	1.36	34.44	1.40	35.56
18	18 / 19	1.40	35.56	1.52	38.51	1.41	35.81	1.50	38.10	1.60	40.64	1.65	41.91
20	20 / 21	1.50	38.10	1.64	41.68	1.51	38.35	1.60	40.64	1.70	43.21	1.75	44.45
24	22 / 23	1.65	41.91	1.77	44.86	1.66	42.16	1.70	43.18	1.85	46.99	1.90	48.26
24	24 / 25	1.75	44.45	1.89	48.03	1.76	44.70	1.80	45.72	1.95	49.56	2.00	50.80

TABLE - A, cont.

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE SE - II/I	J (MAX)		K (MAX)		CABLE ENTRY			
		INCH	MM	INCH	MM	MIN		MAX	
						INCH	MM	INCH	MM
08	8 / 9	1.38	35.05	1.00	25.40	0.10	2.49	0.23	5.94
10	10 / 11	1.38	35.05	1.10	27.94	0.15	3.89	0.23	5.94
12	12 / 13	1.46	37.08	1.10	27.94	0.19	4.83	0.33	8.33
14	14 / 15	1.63	41.40	1.25	31.75	0.26	6.60	0.46	11.61
16	16 / 17	1.80	45.72	1.30	33.02	0.28	7.19	0.61	15.60
18	18 / 19	1.82	46.23	1.35	34.29	0.33	8.26	0.63	16.10
20	20 / 21	1.90	48.26	1.60	40.64	0.34	8.71	0.70	17.73
22	22 / 23	2.04	51.82	1.75	44.45	0.38	9.68	0.82	20.90
24	24 / 25	2.15	54.61	1.85	46.99	0.42	10.62	0.85	21.67

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

Strain Relief Clamp

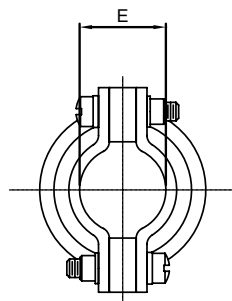
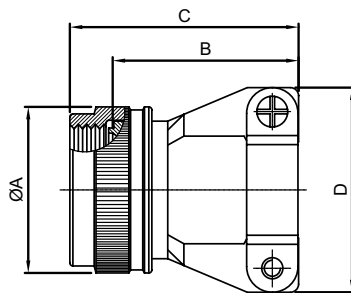
Straight, Self-Lock/Non Self-Lock

For Connector Family K

38999 Series II

38999 Series I

Connector Family "K", includes
MIL-DTL-38999 Series II and Series I



MIL Part Number

M85049 / 121 - 10 W

MIL Series ————
Slash Sheet: 121: Straight
Finish: See Table-2 (pg. 486)
Dash Number: See Table-A
Coupling: S: Self-Lock
 -: Non Self-Lock

TABLE - A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE SE - II / I	A DIA.(MAX)		B LENGTH		C (MAX)		D (MAX)		E (CLOSED)	
		INCH	MM	INCH	MM	INCH	MM	INCH	MM	±.031	±.787
DASH NO											
08	08	0.86	21.79	0.77/0.51	19.56/12.95	1.01	25.65	0.88	22.35	0.22	5.56
10	10	0.98	24.99	0.89/0.64	22.61/16.26	1.13	28.70	0.94	23.88	0.26	6.71
12	12	1.16	29.39	1.01/0.76	25.65/19.30	1.25	31.75	1.12	28.45	0.34	8.74
14	14	1.28	32.49	1.01/0.76	25.65/19.30	1.25	31.75	1.19	30.23	0.46	11.68
16	16	1.41	35.71	1.13/0.88	28.70/22.35	1.37	34.80	1.44	36.58	0.55	13.84
18	18	1.52	38.51	1.38/1.13	35.05/28.70	1.62	41.15	1.56	39.62	0.62	15.62
20	20	1.64	41.71	1.51/1.25	38.35/31.75	1.75	44.45	1.69	42.93	0.69	17.53
22	22	1.77	44.91	1.62/1.38	41.15/35.05	1.87	47.50	1.75	44.45	0.78	19.81
24	24	1.87	47.47	1.76/1.51	44.70/38.35	2.00	50.80	1.88	47.75	0.85	21.59

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

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter
Transient

Matrix 2

26482

Matrix I Pyle

83723

III

Pyle

26500

5015

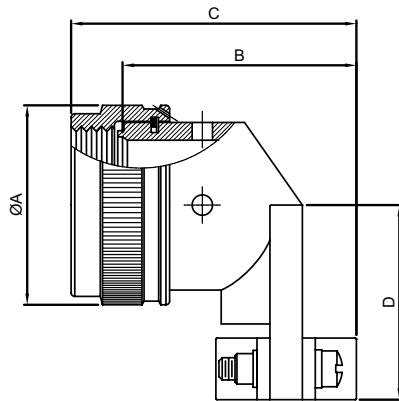
Crimp Rear
Release
Matrix

Class I

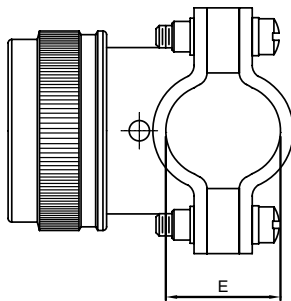
22992

Back-
Shells

Options
Others



90 DEGREE



MIL Part Number

M85049 / 123 - 10 W
 MIL Series: M85049 / 123
 Slash Sheet: 123: 90°
 Finish: See Table-2 (pg. 486)
 Dash Number: See Table-A
 Coupling: S: Self-Lock, -: Non Self-Lock

TABLE - A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE SE - II / I	A DIA.(MAX)		B (MAX)		C (MAX)		D (MAX)		E (CLOSED)	
		INCH	MM	INCH	MM	INCH	MM	INCH	MM	±.031	±.787
DASH NO										INCH	MM
08	08	0.86	21.79	0.86	21.84	1.10	27.94	0.81	20.57	0.22	5.56
10	10	0.98	24.99	0.94	23.88	1.18	29.97	0.87	22.10	0.26	6.71
12	12	1.16	29.39	1.14	28.96	1.38	35.05	0.93	23.62	0.34	8.74
14	14	1.28	32.49	1.20	30.48	1.44	36.58	0.99	25.15	0.46	11.68
16	16	1.41	35.71	1.34	34.04	1.58	40.13	1.06	26.92	0.55	13.84
18	18	1.52	38.51	1.46	37.08	1.70	43.18	1.23	31.24	0.62	15.62
20	20	1.64	41.71	1.58	40.13	1.82	46.23	1.30	33.02	0.70	17.73
22	22	1.77	44.91	1.71	43.43	1.95	49.53	1.36	34.54	0.78	19.81
24	24	1.87	47.47	1.83	46.48	2.07	52.58	1.42	36.07	0.85	21.59

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

Grommet Nut

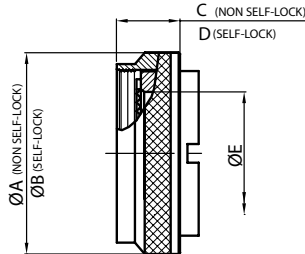
Straight, Self-Lock/Non Self-Lock

For Connector Family K

38999 Series II

38999 Series I

Connector Family "K", includes
MIL-DTL-38999 Series II and Series I



MIL Part Number

M85049 / 27 - 10 W

MIL Series: M85049
Slash Sheet: 27: Straight
Finish: See Table-2 (pg. 486)
Dash Number: See Table-A
Coupling: S: Self-Lock, -: Non Self-Lock

Note: * Slot shown in figure is optional for Non Self-Lock

TABLE-A											
MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE SE - II / I	A DIA. (MAX)		B DIA. (MAX)		C (MAX)		D (MAX)		E DIA. (MAX)	
DASH NO.		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
08	8 / 9	0.75	19.05	0.86	21.82	0.54	13.72	0.59	14.99	0.27	6.86
10	10 / 11	0.85	21.59	0.98	24.99	0.54	13.72	0.59	14.99	0.41	10.41
12	12 / 13	1.00	25.40	1.16	29.36	0.54	13.72	0.59	14.99	0.53	13.46
14	14 / 15	1.10	27.94	1.28	32.54	0.54	13.72	0.59	14.99	0.65	16.51
16	16 / 17	1.25	31.75	1.41	35.71	0.54	13.72	0.59	14.99	0.78	19.81
18	18 / 19	1.40	35.56	1.52	38.51	0.54	13.72	0.59	14.99	0.88	22.35
20	20 / 21	1.50	38.10	1.64	41.68	0.54	13.72	0.59	14.99	1.01	25.65
22	22 / 23	1.65	41.91	1.77	44.86	0.54	13.72	0.59	14.99	1.13	28.70
24	24 / 25	1.75	44.45	1.89	48.03	0.54	13.72	0.59	14.99	1.26	32.00

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

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

83723

III

Matrix I Pyle

26500

Pyle

5015

Crimp Rear Release Matrix

22992

Class I

Back-

Shells

Options

Others

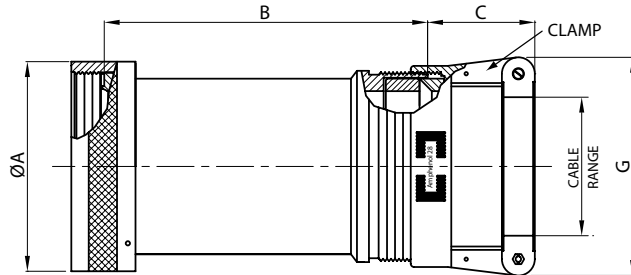
For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III



MIL Part Number
M85049 / 11 -10 W

MIL Series: _____
Slash Sheet: _____
11: Straight, Spin Coupling

Finish:
See Table-2
(pg. 486)

Dash Number:
See Table-A

TABLE - A

MIL PART NUMBER DESIGNATOR		CONNECTOR SHELL SIZE	A DIA. (MAX)		B (MAX)		C (REF) L MAX		G (MAX) L MAX		CABLE RANGE			
			INCH	MM	INCH	MM	INCH	MM	INCH	MM	MIN WIRE		MAX WIRE	
SHELL SIZE	DASH NO										INCH	MM	INCH	MM
08	05	8	0.62	15.67	2.13	54.10	1.03	26.09	0.96	24.31	0.13	3.18	0.25	6.35
	06		0.62	15.67	3.13	79.50	1.03	26.09	0.96	24.31	0.13	3.18	0.25	6.35
	07*		0.62	15.67	2.88	73.15	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	08*		0.62	15.67	3.88	98.55	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
10	09	10	0.73	18.64	2.13	54.10	1.03	26.09	0.96	24.31	0.13	3.18	0.31	7.92
	10		0.73	18.64	3.13	79.50	1.03	26.09	0.96	24.31	0.13	3.18	0.31	7.92
	11*		0.73	18.64	2.88	73.15	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	12*		0.73	18.64	3.88	98.55	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	136		0.73	18.64	2.13	54.10	1.03	26.09	1.15	29.08	0.25	6.35	0.38	9.53
	137		0.73	18.64	3.13	79.50	1.03	26.09	1.15	29.08	0.25	6.35	0.38	9.53
12	13	7/12	0.86	21.79	2.13	54.10	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	14		0.86	21.79	3.13	79.50	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	15*		0.86	21.79	2.88	73.15	1.03	26.09	1.33	33.83	0.35	8.89	0.63	15.88
	16*		0.86	21.79	3.88	98.55	1.03	26.09	1.33	33.83	0.35	8.89	0.63	15.88
	111		0.86	21.79	2.13	54.10	1.03	26.09	1.33	33.83	0.35	8.89	0.50	12.70
	114		0.86	21.79	2.13	54.10	1.03	26.09	0.96	24.31	0.13	3.18	0.31	7.92
	115		0.86	21.79	3.13	79.50	1.03	26.09	0.96	24.31	0.13	3.18	0.31	7.92
	138		0.86	21.79	2.13	54.10	1.03	26.09	1.33	33.83	0.35	8.89	0.50	12.70
	139		0.86	21.79	3.13	79.50	1.03	26.09	1.33	33.83	0.35	8.89	0.50	12.70
14	17	12/14	0.98	24.99	2.13	54.10	1.03	26.09	1.33	33.83	0.35	8.89	0.58	14.61
	18		0.98	24.99	3.13	79.50	1.03	26.09	1.33	33.83	0.35	8.89	0.58	14.61
	19*		0.98	24.99	2.88	73.15	1.06	26.90	1.55	39.40	0.50	12.70	0.75	19.05
	20*		0.98	24.99	3.88	98.55	1.06	26.90	1.55	39.40	0.50	12.70	0.75	19.05
	116		0.98	24.99	2.13	54.10	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	117		0.98	24.99	3.13	79.50	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	150		0.98	24.99	2.13	54.10	1.03	26.09	0.96	24.31	0.13	3.18	0.31	7.92
	151		0.98	24.99	3.13	79.50	1.03	26.09	0.96	24.31	0.13	3.18	0.31	7.92
16	21	19/16	1.11	28.24	2.13	54.10	1.06	26.90	1.55	39.40	0.50	12.70	0.70	17.78
	22		1.11	28.24	3.13	79.50	1.06	26.90	1.55	39.40	0.50	12.70	0.70	17.78
	23*		1.11	28.24	2.88	73.15	1.16	29.36	1.77	44.96	0.63	15.88	0.94	23.80
	24*		1.11	28.24	3.88	98.55	1.16	29.36	1.77	44.96	0.63	15.88	0.94	23.80
	112		1.11	28.24	2.13	54.10	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	113		1.11	28.24	3.13	79.50	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10

* Denotes Style-2 (see page 486)

For more cable entry and length options see page 486 or email: sales@backshellworld.com

All dimensions for reference only.

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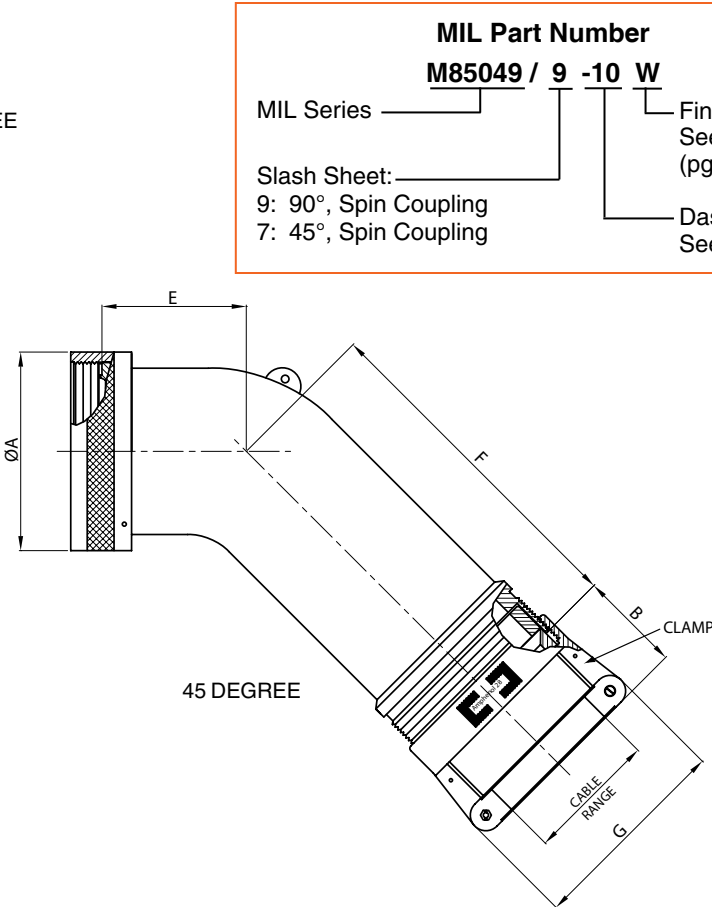
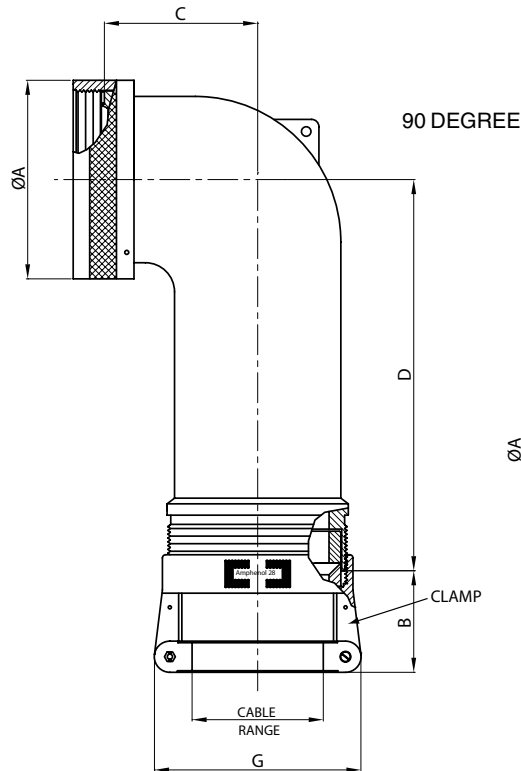
For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III



MIL Part Number
M85049 / 9 -10 W

MIL Series ————
Slash Sheet: ————
9: 90°, Spin Coupling
7: 45°, Spin Coupling

Finish:
See Table-2
(pg. 486)

Dash Number:
See Table-A

TABLE - A

MIL PART NUMBER DESIGNATOR		CONNECTOR SHELL SIZE	A DIA. (MAX)		B (REF)		C (MAX)		D (MAX)		E (MAX)		F (MAX)		G (MAX)		CABLE RANGE			
																	MIN WIRE		MAX WIRE	
SHELL SIZE	DASH NO		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
08	3	8	0.62	15.67	1.03	26.09	0.67	17.02	1.26	32.00	0.63	16.00	1.25	31.75	0.96	24.31	0.13	3.18	0.25	6.35
10	4	10	0.73	18.64	1.03	26.09	0.76	19.30	1.98	50.29	0.69	17.53	1.92	48.77	0.96	24.31	0.13	3.18	0.31	7.92
	49*		0.73	18.64	1.03	26.09	1.52	38.61	2.00	50.80	1.50	38.10	1.98	50.29	1.15	29.08	0.25	6.35	0.44	11.10
	5		0.73	18.64	1.03	26.09	0.76	19.30	1.38	35.05	0.69	17.53	1.31	33.27	1.15	29.08	0.25	6.35	0.38	9.53
12	6	7/12	0.86	21.79	1.03	26.09	0.77	19.56	2.00	50.80	0.75	19.05	1.98	50.29	0.96	24.31	0.13	3.18	0.31	7.92
	71*		0.86	21.79	1.03	26.09	1.81	45.97	2.16	54.86	1.65	41.91	2.18	55.37	1.33	33.83	0.35	8.89	0.63	15.88
	7		0.86	21.79	1.03	26.09	0.77	19.56	2.00	50.80	0.75	19.05	1.98	50.29	1.15	29.08	0.25	6.35	0.44	11.10
	8		0.86	21.79	1.03	26.09	0.77	19.56	1.40	35.56	0.75	19.05	1.98	50.29	1.33	33.83	0.35	8.89	0.50	12.70
14	9	12/14	0.98	24.99	1.03	26.09	0.87	22.10	2.07	52.58	0.81	20.57	2.07	52.58	1.15	29.08	0.25	6.35	0.44	11.10
	10		0.98	24.99	1.03	26.09	0.87	22.10	1.72	43.69	0.81	20.57	1.72	43.69	1.33	33.83	0.35	8.89	0.58	14.61
	50*		0.98	24.99	1.06	26.90	1.89	48.01	2.33	59.18	1.84	46.74	2.37	60.20	1.55	39.40	0.50	12.70	0.75	19.05
	74		0.98	24.99	1.03	26.09	0.87	22.10	2.07	52.58	0.81	20.57	2.07	52.58	0.96	24.31	0.13	3.18	0.31	7.92
16	11	19/16	1.11	28.24	1.03	26.09	1.05	26.67	2.16	54.86	0.91	23.11	2.18	55.37	1.15	29.08	0.25	6.35	0.44	11.10
	12		1.11	28.24	1.06	26.90	1.05	26.67	1.81	45.97	0.91	23.11	1.82	46.23	1.55	39.40	0.50	12.70	0.70	17.78
	40		1.11	28.24	1.03	26.09	1.05	26.67	2.16	54.86	0.91	23.11	2.18	55.37	1.33	33.83	0.35	8.89	0.63	15.88
	51*		1.11	28.24	1.16	29.36	2.04	51.82	2.44	61.98	1.94	49.28	2.52	64.01	1.77	44.96	0.63	15.88	0.94	23.80
	75		1.11	28.24	1.03	26.09	1.05	26.67	2.16	54.86	0.91	23.11	2.18	55.37	0.96	24.31	0.13	3.18	0.31	7.92

* Denotes Style-2 (see page 486)

For more cable entry and length options see page 486 or email: sales@backshellworld.com

All dimensions for reference only.

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III

HD

Dualok

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SJT

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Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

26482

83723

III

Matrix | Pyle

26500

5015

Crimp Rear Release Matrix

22992

Class I

Back-

Shells

Options

Others

Non-Environmental EMI/RFI Backshell

Straight, Spin Coupling

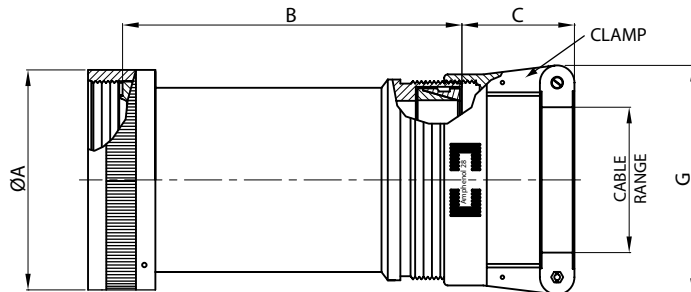
For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III



MIL Part Number

M85049 / 25 -10 W

MIL Series

Slash Sheet:

25: Straight, Spin Coupling

Finish:
See Table-2
(pg. 486)

Dash Number:
See Table-A

TABLE-A

MIL PART NUMBER DESIGNATOR		CONNECTOR SHELL SIZE	TABLE-A											
			A DIA. (MAX)		B (MAX)		C (REF) L MAX		G (MAX) L MAX		CABLE RANGE			
SHELL SIZE	DASH NO		INCH	MM	INCH	MM	INCH	MM	INCH	MM	MIN WIRE		MAX WIRE	
										INCH	MM	INCH	MM	
8	05	8	0.62	15.67	2.13	54.10	1.03	26.09	0.96	24.31	0.13	3.18	0.25	6.35
	06		0.62	15.67	3.13	79.50	1.03	26.09	0.96	24.31	0.13	3.18	0.25	6.35
	07*		0.62	15.67	2.88	73.15	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	08*		0.62	15.67	3.88	98.55	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
10	09	10	0.73	18.64	2.13	54.10	1.03	26.09	0.96	24.31	0.13	3.18	0.31	7.92
	10		0.73	18.64	3.13	79.50	1.03	26.09	0.96	24.31	0.13	3.18	0.31	7.92
	11*		0.73	18.64	2.88	73.15	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	12*		0.73	18.64	3.88	98.55	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	136		0.73	18.64	2.13	54.10	1.03	26.09	1.15	29.08	0.25	6.35	0.38	9.53
	137		0.73	18.64	3.13	79.50	1.03	26.09	1.15	29.08	0.25	6.35	0.38	9.53
12	13	7/12	0.86	21.79	2.13	54.10	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	14		0.86	21.79	3.13	79.50	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	15*		0.86	21.79	2.88	73.15	1.03	26.09	1.33	33.83	0.35	8.89	0.63	15.88
	16*		0.86	21.79	3.88	98.55	1.03	26.09	1.33	33.83	0.35	8.89	0.63	15.88
	111		0.86	21.79	2.13	54.10	1.03	26.09	1.33	33.83	0.35	8.89	0.50	12.70
	114		0.86	21.79	2.13	54.10	1.03	26.09	0.96	24.31	0.13	3.18	0.31	7.92
	115		0.86	21.79	3.13	79.50	1.03	26.09	0.96	24.31	0.13	3.18	0.31	7.92
	138		0.86	21.79	2.13	54.10	1.03	26.09	1.33	33.83	0.35	8.89	0.50	12.70
14	139	12/14	0.86	21.79	3.13	79.50	1.03	26.09	1.33	33.83	0.35	8.89	0.50	12.70
	17		0.98	24.99	2.13	54.10	1.03	26.09	1.33	33.83	0.35	8.89	0.58	14.61
	18		0.98	24.99	3.13	79.50	1.03	26.09	1.33	33.83	0.35	8.89	0.58	14.61
	19*		0.98	24.99	2.88	73.15	1.06	26.90	1.55	39.40	0.50	12.70	0.75	19.05
	20*		0.98	24.99	3.88	98.55	1.06	26.90	1.55	39.40	0.50	12.70	0.75	19.05
	116		0.98	24.99	2.13	54.10	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	117		0.98	24.99	3.13	79.50	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	150		0.98	24.99	2.13	54.10	1.03	26.09	0.96	24.31	0.13	3.18	0.31	7.92
16	151	19/16	0.98	24.99	3.13	79.50	1.03	26.09	0.96	24.31	0.13	3.18	0.31	7.92
	21		1.11	28.24	2.13	54.10	1.06	26.90	1.55	39.40	0.50	12.70	0.70	17.78
	22		1.11	28.24	3.13	79.50	1.06	26.90	1.55	39.40	0.50	12.70	0.70	17.78
	23*		1.11	28.24	2.88	73.15	1.16	29.36	1.77	44.96	0.63	15.88	0.94	23.80
	24*		1.11	28.24	3.88	98.55	1.16	29.36	1.77	44.96	0.63	15.88	0.94	23.80
	112		1.11	28.24	2.13	54.10	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	113		1.11	28.24	3.13	79.50	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	118		1.11	28.24	2.13	54.10	1.03	26.09	1.33	33.83	0.35	8.89	0.63	15.88
	119		1.11	28.24	3.13	79.50	1.03	26.09	1.33	33.83	0.35	8.89	0.63	15.88
	152		1.11	28.24	2.13	54.10	1.03	26.09	0.96	24.31	0.13	3.18	0.31	7.92
	153		1.11	28.24	3.13	79.50	1.03	26.09	0.96	24.31	0.13	3.18	0.31	7.92

* Denotes Style-2 (see page 486)

For more cable entry and length options see page 486 or email: sales@backshellworld.com

All dimensions for reference only.

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Dualok

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Transient

Matrix 2

26482

83723

III

Matrix I Pyle

26500

Pyle

5015

Crimp Rear Release Matrix

22992

Class I

Back-

Shells

Options

Others

For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III

MIL PART NUMBER DESIGNATOR		CONNECTOR SHELL SIZE	TABLE-A											
			A DIA. (MAX)		B (MAX)		C (REF) L MAX		G (MAX) L MAX		CABLE RANGE			
			INCH	MM	INCH	MM	INCH	MM	INCH	MM	MIN WIRE		MAX WIRE	
SHELL SIZE	DASH NO										INCH	MM	INCH	MM
18	25	27/18	1.22	30.94	2.13	54.10	1.03	26.09	1.33	33.83	0.35	8.89	0.63	15.88
	26		1.22	30.94	3.13	79.50	1.03	26.09	1.33	33.83	0.35	8.89	0.63	15.88
	27		1.22	30.94	2.13	54.10	1.06	26.90	1.55	39.40	0.50	12.70	0.75	19.05
	28		1.22	30.94	3.13	79.50	1.06	26.90	1.55	39.40	0.50	12.70	0.75	19.05
	29*		1.22	30.94	2.88	73.15	1.16	29.36	1.77	44.96	0.63	15.88	0.94	23.80
	30*		1.22	30.94	3.88	98.55	1.16	29.36	1.77	44.96	0.63	15.88	0.94	23.80
	120		1.22	30.94	2.13	54.10	1.03	26.09	0.96	24.31	0.13	3.18	0.31	7.92
	121		1.22	30.94	3.13	79.50	1.03	26.09	0.96	24.31	0.13	3.18	0.31	7.92
	122		1.22	30.94	2.13	54.10	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	123		1.22	30.94	3.13	79.50	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	31	37/20	1.35	34.16	3.13	79.50	1.03	26.09	1.33	33.83	0.35	8.89	0.63	15.88
	32		1.35	34.16	4.13	104.90	1.03	26.09	1.33	33.83	0.35	8.89	0.63	15.88
20	33		1.35	34.16	3.13	79.50	1.06	26.90	1.55	39.40	0.50	12.70	0.75	19.05
	34		1.35	34.16	4.13	104.90	1.06	26.90	1.55	39.40	0.50	12.70	0.75	19.05
	35*		1.35	34.16	3.88	98.55	1.16	29.36	1.77	44.96	0.63	15.88	0.94	23.80
	36*		1.35	34.16	4.88	123.95	1.16	29.36	1.77	44.96	0.63	15.88	0.94	23.80
	37*		1.35	34.16	3.88	98.55	1.38	34.93	2.11	53.67	0.88	22.23	1.25	31.75
	38*		1.35	34.16	4.88	123.95	1.38	34.93	2.11	53.67	0.88	22.23	1.25	31.75
	124		1.35	34.16	3.13	79.50	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	125		1.35	34.16	4.13	104.90	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	140		1.35	34.16	3.13	79.50	1.16	29.36	1.77	44.96	0.63	15.88	0.90	22.96
	141		1.35	34.16	4.13	104.90	1.16	29.36	1.77	44.96	0.63	15.88	0.90	22.96
22	39	22	1.47	37.29	3.13	79.50	1.03	26.09	1.33	33.83	0.35	8.89	0.63	15.88
	40		1.47	37.29	4.13	104.90	1.03	26.09	1.33	33.83	0.35	8.89	0.63	15.88
	41		1.47	37.29	3.13	79.50	1.06	26.90	1.55	39.40	0.50	12.70	0.75	19.05
	42		1.47	37.29	4.13	104.90	1.06	26.90	1.55	39.40	0.50	12.70	0.75	19.05
	43		1.47	37.29	3.13	79.50	1.16	29.36	1.77	44.96	0.63	15.88	0.94	23.80
	44		1.47	37.29	4.13	104.90	1.16	29.36	1.77	44.96	0.63	15.88	0.94	23.80
	45*		1.47	37.29	3.88	98.55	1.38	34.93	2.11	53.67	0.88	22.23	1.25	31.75
	46*		1.47	37.29	4.88	123.95	1.38	34.93	2.11	53.67	0.88	22.23	1.25	31.75
	126		1.47	37.29	3.13	79.50	1.03	26.09	0.96	24.31	0.13	3.18	0.31	7.92
	127		1.47	37.29	4.13	104.90	1.03	26.09	0.96	24.31	0.13	3.18	0.31	7.92
	128		1.47	37.29	3.13	79.50	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
	129		1.47	37.29	4.13	104.90	1.03	26.09	1.15	29.08	0.25	6.35	0.44	11.10
24	142	24	1.47	37.29	3.13	79.50	1.38	34.93	2.11	53.67	0.88	22.23	1.03	26.14
	143		1.47	37.29	4.13	104.90	1.38	34.93	2.11	53.67	0.88	22.23	1.03	26.14
	47		1.59	40.46	3.13	79.50	1.06	26.90	1.55	39.40	0.50	12.70	0.75	19.05
	48		1.59	40.46	4.13	104.90	1.06	26.90	1.55	39.40	0.50	12.70	0.75	19.05
	49		1.59	40.46	3.13	79.50	1.16	29.36	1.77	44.96	0.63	15.88	0.81	20.62
	50		1.59	40.46	4.13	104.90	1.16	29.36	1.77	44.96	0.63	15.88	0.81	20.62
	51		1.59	40.46	3.13	79.50	1.16	29.36	1.77	44.96	0.63	15.88	0.94	23.80
	52		1.59	40.46	4.13	104.90	1.16	29.36	1.77	44.96	0.63	15.88	0.94	23.80
	53*		1.59	40.46	3.88	98.55	1.38	34.93	2.11	53.67	0.88	22.23	1.25	31.75
	54*		1.59	40.46	4.88	123.95	1.38	34.93	2.11	53.67	0.88	22.23	1.25	31.75
	130		1.59	40.46	3.13	79.50	1.03	26.09	1.33	33.83	0.35	8.89	0.63	15.88
	131		1.59	40.46	4.13	104.90	1.03	26.09	1.33	33.83	0.35	8.89	0.63	15.88
28	144	28	1.59	40.46	3.13	79.50	1.38	34.93	2.11	53.67	0.88	22.23	1.14	29.06
	145		1.59	40.46	4.13	104.90	1.38	34.93	2.11	53.67	0.88	22.23	1.14	29.06
	55		1.97	50.01	3.13	79.50	1.06	26.90	1.55	39.40	0.50	12.70	0.75	19.05
	56		1.97	50.01	4.13	104.90	1.06	26.90	1.55	39.40	0.50	12.70	0.75	19.05
	57		1.97	50.01	3.13	79.50	1.16	29.36	1.77	44.96	0.63	15.88	0.94	23.80
	58		1.97	50.01	4.13	104.90	1.16	29.36	1.77	44.96	0.63	15.88	0.94	23.80

* Denotes Style-2 (see page 486)

For more cable entry and length options see page 486 or email: sales@backshellworld.com

All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

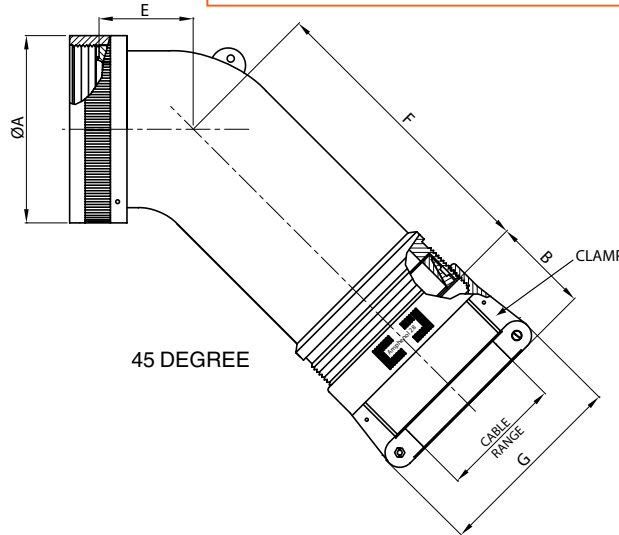
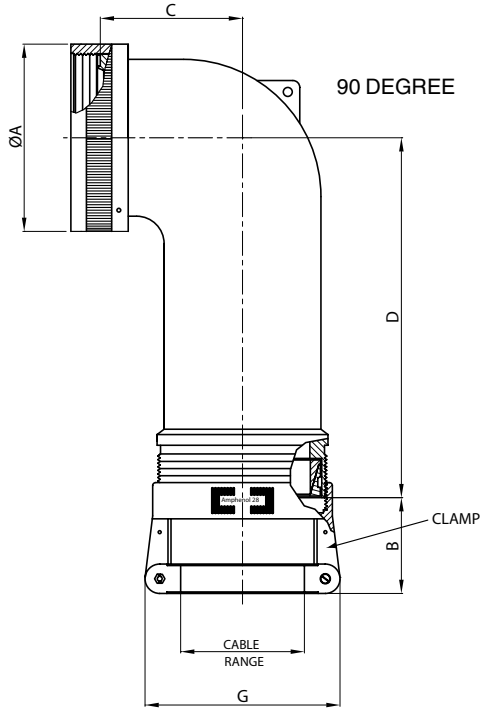
For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III



MIL Part Number

M85049 / 23 -10 W

MIL Series

Slash Sheet:
24: 90°, Spin Coupling
23: 45°, Spin Coupling

Finish:
See Table-2
(pg. 486)

Dash Number:
See Table-B

TABLE-B

MIL PART NUMBER DESIGNATOR		CONNECTOR SHELL SIZE	A DIA. (MAX)		B (REF) L MAX		C (MAX)		D (MAX)		E (MAX)		F (MAX)		G (MAX)		CABLE RANGE			
																	MIN WIRE		MAX WIRE	
			INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
8	3	8	0.62	15.67	1.03	26.09	0.67	17.02	1.26	32.00	0.63	16.00	1.25	31.75	0.96	24.31	0.13	3.18	0.25	6.35
	4		0.73	18.64	1.03	26.09	0.76	19.30	1.98	50.29	0.69	17.53	1.92	48.77	0.96	24.31	0.13	3.18	0.31	7.92
10	49*	10	0.73	18.64	1.03	26.09	1.52	38.61	2.00	50.80	1.50	38.10	1.98	50.29	1.15	29.08	0.25	6.35	0.44	11.10
	5		0.73	18.64	1.03	26.09	0.76	19.30	1.38	35.05	0.69	17.53	1.31	33.27	1.15	29.08	0.25	6.35	0.38	9.53
12	6	7/12	0.86	21.79	1.03	26.09	0.77	19.56	2.00	50.80	0.75	19.05	1.98	50.29	0.96	24.31	0.13	3.18	0.31	7.92
	71*		0.86	21.79	1.03	26.09	1.81	45.97	2.16	54.86	1.65	41.91	2.18	55.37	1.33	33.83	0.35	8.89	0.63	15.88
	7		0.86	21.79	1.03	26.09	0.77	19.56	2.00	50.80	0.75	19.05	1.98	50.29	1.15	29.08	0.25	6.35	0.44	11.10
	8		0.86	21.79	1.03	26.09	0.77	19.56	1.40	35.56	0.75	19.05	1.98	50.29	1.33	33.83	0.35	8.89	0.50	12.70
14	9	12/14	0.98	24.99	1.03	26.09	0.87	22.10	2.07	52.58	0.81	20.57	2.07	52.58	1.15	29.08	0.25	6.35	0.44	11.10
	10		0.98	24.99	1.03	26.09	0.87	22.10	1.72	43.69	0.81	20.57	1.72	43.69	1.33	33.83	0.35	8.89	0.58	14.61
	50*		0.98	24.99	1.06	26.90	1.89	48.01	2.33	59.18	1.84	46.74	2.37	60.20	1.55	39.40	0.50	12.70	0.75	19.05
	74		0.98	24.99	1.03	26.09	0.87	22.10	2.07	52.58	0.81	20.57	2.07	52.58	0.96	24.31	0.13	3.18	0.31	7.92
16	11	19/16	1.11	28.24	1.03	26.09	1.05	26.67	2.16	54.86	0.91	23.11	2.18	55.37	1.15	29.08	0.25	6.35	0.44	11.10
	12		1.11	28.24	1.06	26.90	1.05	26.67	1.81	45.97	0.91	23.11	1.82	46.23	1.55	39.40	0.50	12.70	0.70	17.78
	40		1.11	28.24	1.03	26.09	1.05	26.67	2.16	54.86	0.91	23.11	2.18	55.37	1.33	33.83	0.35	8.89	0.63	15.88
	51*		1.11	28.24	1.16	29.36	2.04	51.82	2.44	61.98	1.94	49.28	2.52	64.01	1.77	44.96	0.63	15.88	0.94	23.80
	75		1.11	28.24	1.03	26.09	1.05	26.67	2.16	54.86	0.91	23.11	2.18	55.37	0.96	24.31	0.13	3.18	0.31	7.92

* Denotes Style-2 (see page 486)

For more cable entry and length options see page 486 or email: sales@backshellworld.com

All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

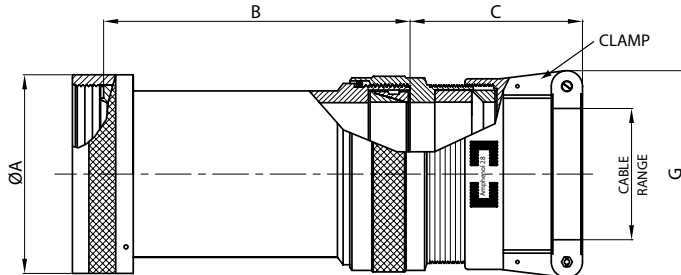
For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III



MIL Part Number

M85049 / 10 -10 W

MIL Series

Slash Sheet:

10: Straight, Spin Coupling

Finish:
See Table-2
(pg. 486)

Dash Number:
See Table-A

TABLE - A

TABLE – A														
MIL PART NUMBER DESIGNATOR		CONNECTOR SHELL SIZE	A DIA. (MAX)		B (MAX)		C (REF) L MAX		G (MAX) L MAX		CABLE RANGE			
SHELL SIZE	DASH NO		INCH	MM	INCH	MM	INCH	MM	INCH	MM	MIN WIRE		MAX WIRE	
											INCH	MM	INCH	MM
08	05	8	0.62	15.67	2.13	54.10	1.54	39.22	0.96	24.31	0.13	3.18	0.25	6.35
	06		0.62	15.67	3.13	79.50	1.54	39.22	0.96	24.31	0.13	3.18	0.25	6.35
	07*		0.62	15.67	2.88	73.15	1.54	39.22	1.15	29.08	0.25	6.35	0.44	11.10
	08*		0.62	15.67	3.88	98.55	1.54	39.22	1.15	29.08	0.25	6.35	0.44	11.10
10	09	10	0.73	18.64	2.13	54.10	1.54	39.22	0.96	24.31	0.13	3.18	0.31	7.92
	10		0.73	18.64	3.13	79.50	1.54	39.22	0.96	24.31	0.13	3.18	0.31	7.92
	11*		0.73	18.64	2.88	73.15	1.54	39.22	1.15	29.08	0.25	6.35	0.44	11.10
	12*		0.73	18.64	3.88	98.55	1.54	39.22	1.15	29.08	0.25	6.35	0.44	11.10
	136		0.73	18.64	2.13	54.10	1.54	39.22	1.15	29.08	0.25	6.35	0.38	9.53
	137		0.73	18.64	3.13	79.50	1.54	39.22	1.15	29.08	0.25	6.35	0.38	9.53
12	13	7/12	0.86	21.79	2.13	54.10	1.54	39.22	1.15	29.08	0.25	6.35	0.44	11.10
	14		0.86	21.79	3.13	79.50	1.54	39.22	1.15	29.08	0.25	6.35	0.44	11.10
	15*		0.86	21.79	2.88	73.15	1.84	46.84	1.33	33.83	0.35	8.89	0.63	15.88
	16*		0.86	21.79	3.88	98.55	1.84	46.84	1.33	33.83	0.35	8.89	0.63	15.88
	111		0.86	21.79	2.13	54.10	1.84	46.84	1.33	33.83	0.35	8.89	0.50	12.70
	114		0.86	21.79	2.13	54.10	1.54	39.22	0.96	24.31	0.13	3.18	0.31	7.92
	115		0.86	21.79	3.13	79.50	1.54	39.22	0.96	24.31	0.13	3.18	0.31	7.92
	138		0.86	21.79	2.13	54.10	1.84	46.84	1.33	33.83	0.35	8.89	0.50	12.70
	139		0.86	21.79	3.13	79.50	1.84	46.84	1.33	33.83	0.35	8.89	0.50	12.70
14	17	12/14	0.98	24.99	2.13	54.10	1.84	46.84	1.33	33.83	0.35	8.89	0.58	14.61
	18		0.98	24.99	3.13	79.50	1.84	46.84	1.33	33.83	0.35	8.89	0.58	14.61
	19*		0.98	24.99	2.88	73.15	1.92	48.67	1.55	39.40	0.50	12.70	0.75	19.05
	20*		0.98	24.99	3.88	98.55	1.92	48.67	1.55	39.40	0.50	12.70	0.75	19.05
	116		0.98	24.99	2.13	54.10	1.54	39.22	1.15	29.08	0.25	6.35	0.44	11.10
	117		0.98	24.99	3.13	79.50	1.54	39.22	1.15	29.08	0.25	6.35	0.44	11.10
	150		0.98	24.99	2.13	54.10	1.54	39.22	0.96	24.31	0.13	3.18	0.31	7.92
	151		0.98	24.99	3.13	79.50	1.54	39.22	0.96	24.31	0.13	3.18	0.31	7.92
16	21	19/16	1.11	28.24	2.13	54.10	1.92	48.67	1.55	39.40	0.50	12.70	0.70	17.78
	22		1.11	28.24	3.13	79.50	1.92	48.67	1.55	39.40	0.50	12.70	0.70	17.78
	23*		1.11	28.24	2.88	73.15	2.00	50.80	1.77	44.96	0.63	15.88	0.94	23.80
	24*		1.11	28.24	3.88	98.55	2.00	50.80	1.77	44.96	0.63	15.88	0.94	23.80
	112		1.11	28.24	2.13	54.10	1.54	39.22	1.15	29.08	0.25	6.35	0.44	11.10
	113		1.11	28.24	3.13	79.50	1.54	39.22	1.15	29.08	0.25	6.35	0.44	11.10
	118		1.11	28.24	2.13	54.10	1.84	46.84	1.33	33.83	0.35	8.89	0.63	15.88
	119		1.11	28.24	3.13	79.50	1.84	46.84	1.33	33.83	0.35	8.89	0.63	15.88
	152		1.11	28.24	2.13	54.10	1.54	39.22	0.96	24.31	0.13	3.18	0.31	7.92
153	1.11	28.24	3.13	79.50	1.54	39.22	0.96	24.31	0.13	3.18	0.31	7.92		

* Denotes Style-2 (see page 486)

For more cable entry and length options see page 486 or email: sales@backshellworld.com

All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

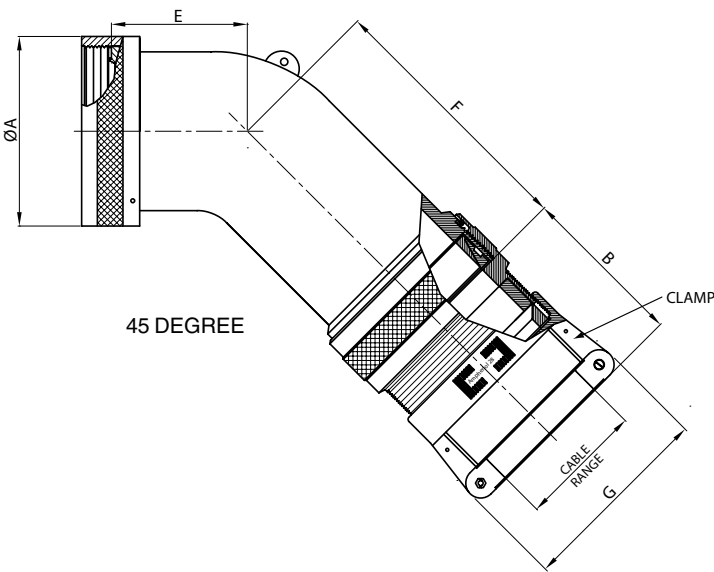
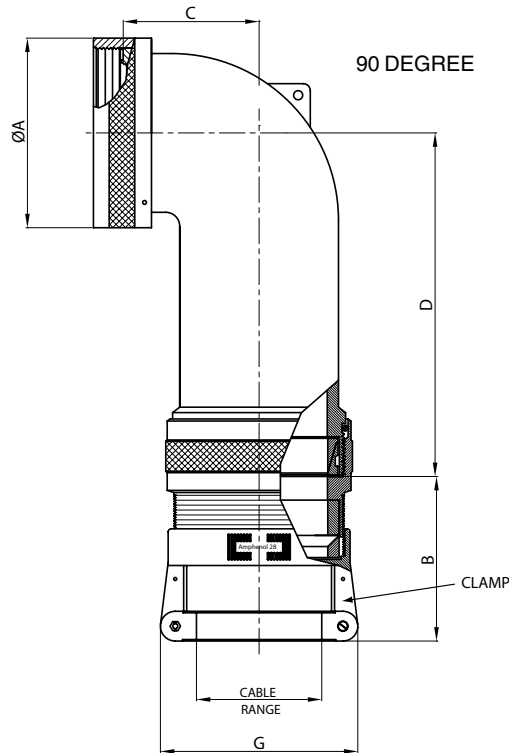
For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III



MIL Part Number
M85049 / 8 -10 W

MIL Series _____ Finish: See Table-2 (pg. 486)
Slash Sheet: _____ Dash Number: See Table-A
8: 90°, Spin Coupling
6: 45°, Spin Coupling

TABLE - A

MIL PART NUMBER DESIGNATOR		CONNECTOR SHELL SIZE	A DIA. (MAX)		B (REF)		C (MAX)		D (MAX)		E (MAX)		F (MAX)		G (MAX)		CABLE RANGE			
																	MIN WIRE		MAX WIRE	
			INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
08	3	8	0.62	15.67	1.54	39.22	0.67	17.02	1.26	32.00	0.63	16.00	1.25	31.75	0.96	24.31	0.13	3.18	0.25	6.35
	4		0.73	18.64	1.54	39.22	0.76	19.30	1.98	50.29	0.69	17.53	1.92	48.77	0.96	24.31	0.13	3.18	0.31	7.92
10	49*	10	0.73	18.64	1.54	39.22	1.52	38.61	2.00	50.80	1.50	38.10	1.98	50.29	1.15	29.08	0.25	6.35	0.44	11.10
	5		0.73	18.64	1.54	39.22	0.76	19.30	1.38	35.05	0.69	17.53	1.31	33.27	1.15	29.08	0.25	6.35	0.38	9.53
12	6	7/12	0.86	21.79	1.54	39.22	0.77	19.56	2.00	50.80	0.75	19.05	1.98	50.29	0.96	24.31	0.13	3.18	0.31	7.92
	71*		0.86	21.79	1.84	46.84	1.81	45.97	2.16	54.86	1.65	41.91	2.18	55.37	1.33	33.83	0.35	8.89	0.63	15.88
	7		0.86	21.79	1.54	39.22	0.77	19.56	2.00	50.80	0.75	19.05	1.98	50.29	1.15	29.08	0.25	6.35	0.44	11.10
	8		0.86	21.79	1.84	46.84	0.77	19.56	1.40	35.56	0.75	19.05	1.98	50.29	1.33	33.83	0.35	8.89	0.50	12.70
14	9	12/14	0.98	24.99	1.54	39.22	0.87	22.10	2.07	52.58	0.81	20.57	2.07	52.58	1.15	29.08	0.25	6.35	0.44	11.10
	10		0.98	24.99	1.84	46.84	0.87	22.10	1.72	43.69	0.81	20.57	1.72	43.69	1.33	33.83	0.35	8.89	0.58	14.61
	50*		0.98	24.99	1.92	48.67	1.89	48.01	2.33	59.18	1.84	46.74	2.37	60.20	1.55	39.40	0.50	12.70	0.75	19.05
	74		0.98	24.99	1.54	39.22	0.87	22.10	2.07	52.58	0.81	20.57	2.07	52.58	0.96	24.31	0.13	3.18	0.31	7.92
16	11	19/16	1.11	28.24	1.54	39.22	1.05	26.67	2.16	54.86	0.91	23.11	2.18	55.37	1.15	29.08	0.25	6.35	0.44	11.10
	12		1.11	28.24	1.92	48.67	1.05	26.67	1.81	45.97	0.91	23.11	1.82	46.23	1.55	39.40	0.50	12.70	0.70	17.78
	40		1.11	28.24	1.84	46.84	1.05	26.67	2.16	54.86	0.91	23.11	2.18	55.37	1.33	33.83	0.35	8.89	0.63	15.88
	51*		1.11	28.24	2.00	50.80	2.04	51.82	2.44	61.98	1.94	49.28	2.52	64.01	1.77	44.96	0.63	15.88	0.94	23.80
	75		1.11	28.24	1.54	39.22	1.05	26.67	2.16	54.86	0.91	23.11	2.18	55.37	0.96	24.31	0.13	3.18	0.31	7.92

* Denotes Style-2 (see page 486)
For more cable entry and length options see page 486 or email: sales@backshellworld.com
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

38999	III	HD	Dualok	II	I	SJT	Accessories	Aquacon	Herm/Seal	PCB	Fiber Optics	High Speed	Contacts	EMI Filter	Transient	26482	83723	III	Matrix Pyle	26500	Pyle	5015	Crimp Rear Release	Matrix	22992	Class I	Back-Shells	Options	Others
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Shrink Boot Adapter

Straight, Spin Coupling

Amphenol

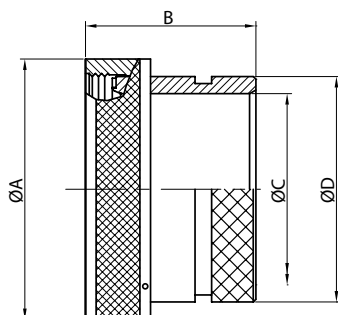
For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III



MIL Part Number

M85049 / 60-1 W 10

MIL Series ————
Slash Sheet: ————
60-1: Straight, Spin Coupling

Dash Number:
See Table-A

Finish:
See Table-2
(pg. 486)

TABLE-A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE	A DIA. (MAX)		B (MAX)		C DIA. (MIN)		D DIA. (MAX)	
		INCH	MM	INCH	MM	INCH	MM	INCH	MM
8	8	0.62	15.67	1.19	30.15	0.25	6.35	0.53	13.54
10	10	0.73	18.64	1.19	30.15	0.36	9.02	0.61	15.37
12	7/12	0.86	21.79	1.19	30.15	0.49	12.47	0.77	19.66
14	12/14	0.98	24.99	1.19	30.15	0.57	14.35	0.84	21.29
16	19/16	1.11	28.24	1.19	30.15	0.69	17.53	0.96	24.46
18	27/18	1.22	30.94	1.19	30.15	0.77	19.53	1.04	26.47
20	37/20	1.35	34.16	1.19	30.15	0.89	22.71	1.22	30.91
22	22	1.47	37.29	1.19	30.15	1.02	25.88	1.36	34.42
24	24	1.59	40.46	1.19	30.15	1.13	28.80	1.44	36.65
28	28	1.97	50.01	1.51	38.38	1.37	34.77	1.71	43.41
32	32	2.22	56.36	1.51	38.38	1.62	41.02	1.92	48.74
36	36	2.47	62.71	1.51	38.38	1.83	46.48	2.17	55.09
40	40	2.72	69.06	1.51	38.38	2.05	51.94	2.40	61.01
44	44	2.97	75.41	1.51	38.38	2.30	58.42	2.66	67.49
48	48	3.22	81.76	1.51	38.38	2.55	64.77	2.91	73.84

* Denotes Style-2 (see page 486)

For more cable entry and length options see page 486 or email: sales@backshellworld.com

All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

Matrix I Pyle

83723

III

Pyle

26500

5015

Crimp Rear Release Matrix

22992

Class I

Back-

Shells

Options

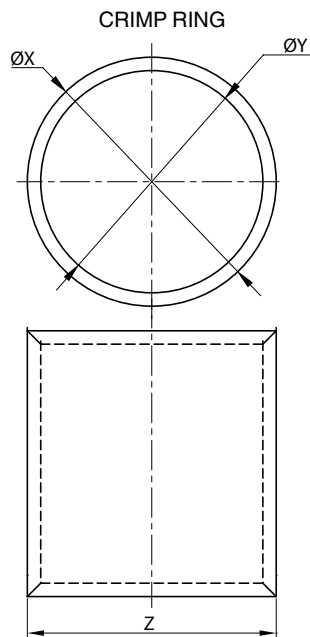
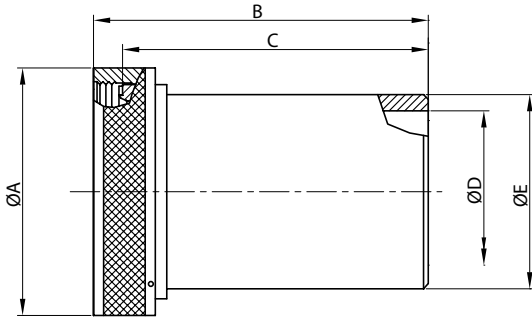
Others

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III



MIL Part Number

M85049 / 26 -1 -10 W

MIL Series: M85049 / 26
Slash Sheet: -1 -10
26: Straight, Spin Coupling

Crimp Ring:
1: Adapter
2: Crimp Ring
3: Adapter with Crimp Ring

Finish:
See Table-2
(pg. 486)
(Omit for "26-2")

Dash Number:
See Table-A
(for 26-1 & 26-3)
Table -B (for 26-2)

TABLE - A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE	A DIA (MAX)		B (MAX)		C (MAX)		D DIA (MAX)		E DIA. (MAX)	
		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
8	8	0.62	15.67	1.28	32.34	0.96	24.38	0.25	6.35	0.35	8.81
10	10	0.73	18.64	1.28	32.34	0.96	24.38	0.33	8.26	0.50	12.70
12	7/12	0.86	21.79	1.28	32.34	0.96	24.38	0.42	10.67	0.51	12.95
14	12/14	0.98	24.99	1.28	32.34	0.96	24.38	0.54	13.72	0.63	16.00
16	19/16	1.11	28.24	1.28	32.34	0.96	24.38	0.67	17.02	0.76	19.30
18	27/18	1.22	30.94	1.28	32.34	0.96	24.38	0.79	20.04	0.89	22.61
20	37/20	1.35	34.16	1.28	32.34	0.96	24.38	0.91	23.22	1.01	25.65
22	22	1.47	37.29	1.28	32.34	0.96	24.38	1.04	26.39	1.13	28.70
24	24	1.59	40.46	1.28	32.34	0.96	24.38	1.11	28.24	1.20	30.48
28	28	1.97	50.01	1.44	36.55	0.96	24.38	1.39	35.28	1.56	39.62
32	32	2.22	56.36	1.44	36.55	0.96	24.38	1.64	41.53	1.81	45.97
36	36	2.47	62.71	1.44	36.55	0.96	24.38	1.85	46.99	2.06	52.32
40	40	2.72	69.06	1.44	36.55	0.96	24.38	2.07	52.45	2.31	58.67
44	44	2.97	75.41	1.44	36.55	0.96	24.38	2.32	58.93	2.56	65.02
48	48	3.22	81.76	1.44	36.55	0.96	24.38	2.57	65.28	2.81	71.37

TABLE-B

TABLE-B												
MIL PART NUMBER DESIGNATOR		CONNECTOR SHELL SIZE	X DIA				Y DIA				Z	
DASH NO	PART NO COLOR		MIN		MAX		MIN		MAX			
			INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
8	GREEN	8	0.45	11.38	0.46	11.63	0.40	10.16	0.41	10.41	0.25	6.35
10	RED	10	0.66	16.76	0.68	17.27	0.59	14.86	0.60	15.11	0.44	11.18
12	RED	7/12	0.66	16.76	0.68	17.27	0.59	14.86	0.60	15.11	0.44	11.18
14	BLUE	12/14	0.78	19.81	0.80	20.32	0.71	17.91	0.72	18.16	0.44	11.18
16	GRAY	19/16	0.91	23.11	0.93	23.62	0.84	21.21	0.85	21.46	0.44	11.18
18	BROWN	27/18	1.08	27.43	1.10	27.94	1.01	25.53	1.02	25.78	0.44	11.18
20	GREEN	37/20	1.20	30.48	1.22	30.99	1.13	28.58	1.14	28.83	0.44	11.18
22	PINK	22	1.32	33.53	1.34	34.04	1.25	31.62	1.26	31.88	0.44	11.18
24	YELLOW	24	1.39	35.23	1.41	35.74	1.31	33.32	1.32	33.58	0.44	11.18
28	RED	28	1.74	44.20	1.76	44.70	1.67	42.29	1.68	42.55	0.44	11.18
32	GRAY	32	1.99	50.55	2.01	51.05	1.92	48.64	1.93	48.90	0.44	11.18
36	GREEN	36	2.24	56.90	2.26	57.40	2.17	54.99	2.18	55.25	0.44	11.18
40	ORANGE	40	2.49	63.25	2.51	63.75	2.42	61.34	2.43	61.60	0.44	11.18
44	YELLOW	44	2.74	69.20	2.76	70.10	2.67	67.69	2.68	67.95	0.44	11.18
48	BLUE	48	2.99	75.95	3.01	76.45	2.92	74.04	2.93	74.30	0.44	11.18

All dimensions for reference only.

Note: For more cable entry and length options, email: sales@backshellworld.com

Band Lock Adapter

Straight, 90° and 45°, Self-Lock

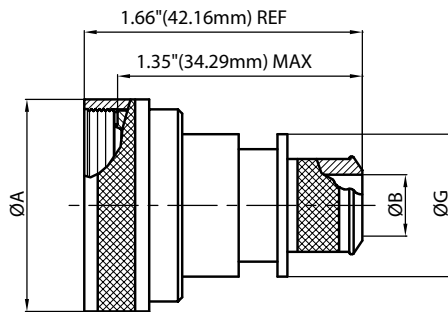
For Connector Family J

26482 Matrix Series 2

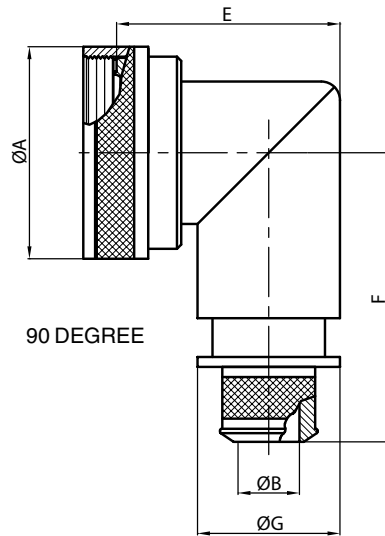
5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

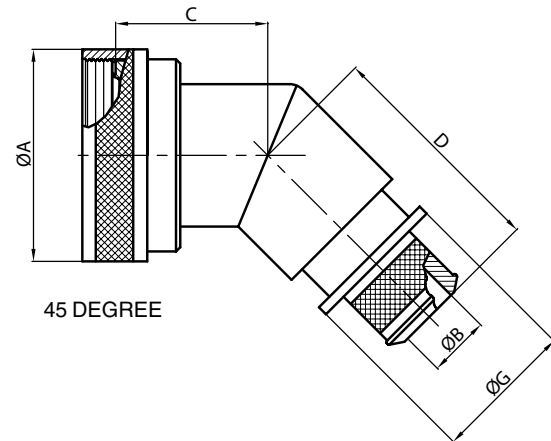
Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III



STRAIGHT



90 DEGREE



45 DEGREE

MIL Part Number

M85049 / 82 -10 W 02

MIL Series: M85049 / 82
Slash Sheet: 82: Straight, Self-Lock
84: 90°, Self-Lock
83: 45°, Self-Lock

Entry Size: See Table-A

Finish: See Table-2 (pg. 486)

Shell Size: See Table-A

TABLE-A

TABLE-A																
MIL PART NUMBER DESIGNATOR		CONNECTOR SHELL SIZE	A DIA. (MAX)		B DIA. (MAX)		C (MAX)		D (MAX)		E (MAX)		F (MAX.)		G MAX	
ACCESSORY SHELL SIZE	ENTRY SIZE				+0.00 -0.02	+0.00 -0.50										
			INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
08	02	8	0.89	22.48	N/A	N/A	0.87	22.10	1.16	29.46	1.19	30.18	1.42	35.99	N/A	N/A
	03				0.26	6.60									0.56	14.22
10	02	10	1.01	25.65	N/A	N/A	0.89	22.61	1.18	29.97	1.28	32.54	1.48	37.59	N/A	N/A
	03				0.32	8.13									0.63	16.00
12	02	7 / 12	1.14	28.83	0.32	8.13	0.92	23.37	1.20	30.48	1.41	35.71	1.54	39.17	0.63	16.00
	03				0.45	11.43									0.75	19.05
14	02	12 / 14	1.26	32.00	0.45	11.43	0.94	23.88	1.22	30.99	1.53	38.89	1.61	40.77	0.75	19.05
	03				0.57	14.48									0.89	22.61
16	02	19 / 16	1.39	35.18	0.51	12.95	0.96	24.38	1.25	31.75	1.66	42.06	1.67	42.34	0.82	20.83
	03				0.64	16.26									0.95	24.13
18	02	27 / 18	1.51	38.35	0.64	16.26	0.98	24.89	1.26	32.00	1.72	43.64	1.73	43.94	0.95	24.13
	03				0.76	19.30									1.07	27.18
20	02	37 / 20	1.64	41.53	0.64	16.26	1.00	25.40	1.29	32.77	1.84	46.84	1.79	45.52	0.95	24.13
	03				0.82	20.83									1.13	28.07
22	02	22	1.76	44.70	0.70	17.78	1.03	26.16	1.31	33.27	1.94	49.23	1.85	46.99	1.02	25.99
	03				0.95	24.13									1.26	32.00
24	02	24	1.89	47.88	0.76	19.30	1.05	26.67	1.34	34.04	2.09	53.16	1.92	48.69	1.07	27.18
	03				1.01	25.65									1.32	33.53
28	02	28	2.14	54.23	0.89	22.61	1.10	27.94	1.38	35.05	2.53	64.29	2.04	51.87	1.19	30.23
	03				1.14	28.96									1.47	37.34

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

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

Matrix I Pyle

Pyle

26500

5015

Crimp Rear Release Matrix

Class I

22992

Back-

Shells

Options

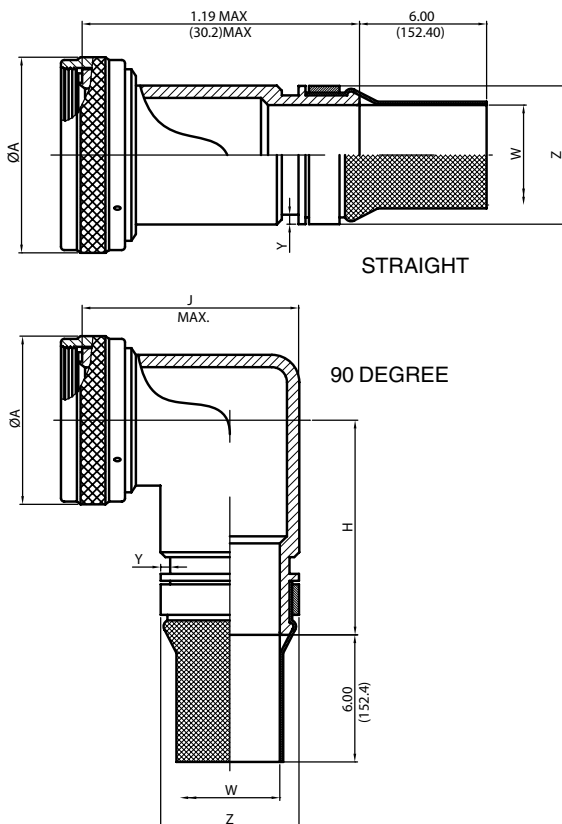
Others

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III



MIL Part Number

M85049 / 109 S 10 T W 03 -6 D

MIL Series: M85049 / 109
Slash Sheet: 109: Straight, 111: 90°
Coupling: -: Spin Coupling, S: Self-Lock
Shell Size: See Table-A
Drain Hole Option: D
Shield Length: 6 inches min., 18 inches max., 1 inch increments, 6: 6 inch, 7: 7 inch, so on
Entry Size: See Table-A & B
Finish: See Table-2 (pg. 486)
Shield Finish: (Material: Copper) K: Nickel, T: Tin

TABLE - A

TABLE – A									
PART NUMBER DESIGNATOR			CONNECTOR SHELL SIZE	A DIA.(MAX)		H (MAX)		J (MAX)	
SHELL SIZE- MIL	ALLOWABLE ENTRY SIZE			INCH	MM	INCH	MM	INCH	MM
	MIN	MAX							
08	-	01	8	0.885	22.48	1.73	43.94	1.12	28.45
10	01	03	10	1.010	25.65	1.85	46.99	1.25	31.75
12	01	05	7/12	1.135	28.83	1.87	47.50	1.38	35.05
14	02	06	12/14	1.260	32.00	1.94	49.28	1.44	36.58
16	04	08	19/16	1.385	35.18	2.03	51.56	1.56	39.62
18	05	09	27/18	1.510	38.35	2.20	55.88	1.75	44.45
20	07	11	37/20	1.635	41.53	2.20	55.88	1.75	44.45
22	09	13	22	1.760	44.70	2.31	58.67	2.00	50.80
24	11	14	24	1.885	47.88	2.31	58.67	2.00	50.80
28	14	16	28	2.135	54.23	2.48	62.99	2.25	57.15
32	16	17	32	2.395	60.83	2.73	69.34	2.75	69.85
36	17	19	36	2.635	66.93	2.73	69.34	3.125	79.38
40	19	21	40	2.885	73.28	2.88	73.15	4.125	104.78
44	21	23	44	3.135	79.63	3.00	76.20	4.125	104.78
48	23	25	48	3.385	85.98	3.12	79.25	4.125	104.78

TABLE - B

ENTRY SIZE	W ±0.020	W ±0.508	Y +0.008 -0.000	Y +0.200 -0.000	Z MAX	Z MAX
	INCH	MM	INCH	MM	INCH	MM
01	0.250	6.350	0.044	1.12	0.56	14.22
02	0.312	7.920	0.044	1.12	0.63	16.00
03	0.375	9.530	0.044	1.12	0.69	17.53
04	0.438	11.130	0.044	1.12	0.75	19.05
05	0.500	12.700	0.044	1.12	0.82	20.83
06	0.562	14.270	0.044	1.12	0.89	22.61
07	0.625	15.880	0.044	1.12	0.95	24.13
08	0.688	17.480	0.044	1.12	1.02	25.91
09	0.750	19.050	0.069	1.75	1.07	27.18
10	0.812	20.620	0.069	1.75	1.13	28.70
11	0.875	22.230	0.069	1.75	1.19	30.23
12	0.938	23.830	0.069	1.75	1.26	32.00
13	1.000	25.400	0.069	1.75	1.32	33.53
14	1.125	28.575	0.069	1.75	1.47	37.34
15	1.250	31.750	0.069	1.75	1.60	40.64
16	1.375	34.930	0.069	1.75	1.71	43.43
17	1.500	38.100	0.086	2.18	1.84	46.74
18	1.625	41.280	0.086	2.18	2.00	50.80
19	1.750	44.450	0.086	2.18	2.12	53.85
20	1.875	47.630	0.086	2.18	2.27	57.66
21	2.000	50.800	0.086	2.18	2.44	61.98
22	2.125	53.980	0.086	2.18	2.60	66.04
23	2.250	57.150	0.086	2.18	2.75	69.85
24	2.375	60.325	0.086	2.18	2.90	73.66
25	2.500	63.500	0.086	2.18	3.06	77.72

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

Quick Clamp

Straight, 90° and 45°, Self-Lock/Non Self-Lock

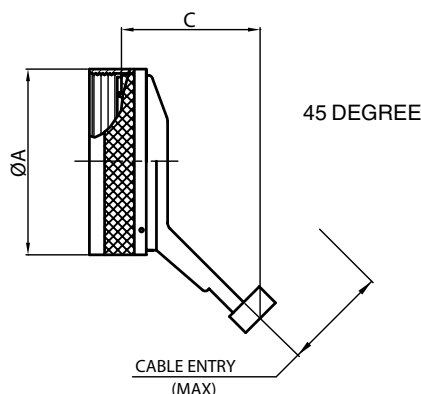
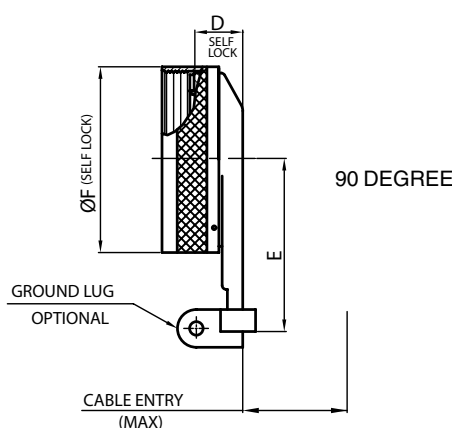
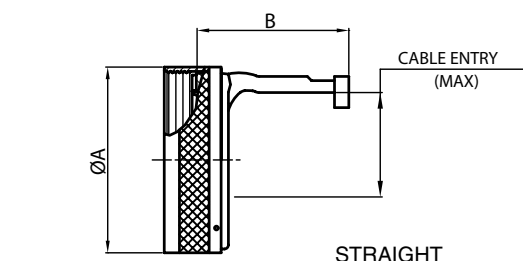
For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III



MIL Part Number

M85049 / 53 - 10 W

MIL Series: **M85049 / 53**
Slash Sheet: **53**
53: Straight
55: 90°
54: 45°
Coupling: **10**
-: Non Self-Lock
G: Non Self-Lock with grounding Lug (only for 90°)
S: Self-Lock (only for 90°)
T: Self-Lock with grounding lug (only for 90°)
Finish: See Table-2 (pg. 486)
Dash Number: See Table-A

TABLE - A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE	A DIA.(MAX)		B (MAX)		C (MAX)		D (MAX)		E (MAX)		F DIA.(MAX)		WIRING ENTRY MAX	
		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
8	8	0.66	16.69	0.95	24.23	1.23	31.29	0.73	18.54	1.22	30.99	0.89	22.48	0.26	6.60
10	10	0.78	19.86	0.95	24.23	1.23	31.29	0.73	18.54	1.29	32.77	1.01	25.65	0.37	9.27
12	07/12/12	0.94	23.80	0.95	24.23	1.23	31.29	0.73	18.54	1.62	41.15	1.14	28.83	0.50	12.73
14	12/14/12	1.05	26.67	1.20	30.58	1.23	31.29	0.73	18.54	1.66	42.16	1.26	32.00	0.58	14.61
16	19/16	1.24	31.47	1.20	30.58	1.23	31.29	0.73	18.54	1.72	43.69	1.39	35.18	0.70	17.78
18	27/18	1.38	35.00	1.20	30.58	1.23	31.29	0.73	18.54	1.72	43.69	1.51	38.35	0.78	19.79
20	37/20	1.50	38.10	1.31	33.27	1.48	37.64	0.75	19.05	1.79	45.47	1.64	41.53	0.90	22.96
22	22	1.63	41.43	1.43	36.32	1.48	37.64	0.75	19.05	1.85	46.99	1.76	44.70	1.03	26.14
24	24	1.75	44.45	1.56	39.62	1.48	37.64	0.75	19.05	1.91	48.51	1.89	47.88	1.14	29.06
28	28	1.97	50.04	1.56	39.62	1.47	37.31	0.75	19.05	2.06	52.32	2.14	54.23	1.38	35.03

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

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter
Transient

26482
Matrix 2

83723
III
Matrix | Pyle

26500
Pyle

5015
Crimp Rear
Release
Matrix

22992
Class 1

Back-
Shells

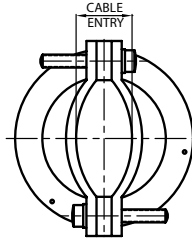
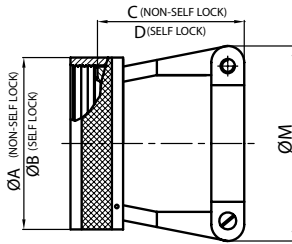
Options
Others

26482 Matrix Series 2

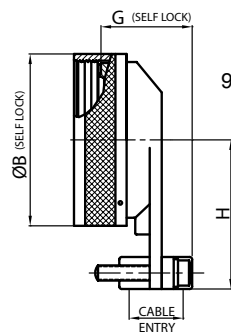
5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

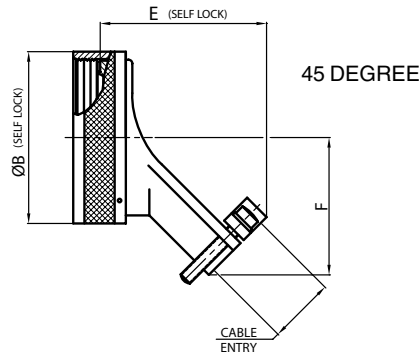
Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III



STRAIGHT



90 DEGREE



45 DEGREE

MIL Part Number

M85049 / 52 - 10 W

MIL Series

Slash Sheet:

52: Straight

51: 90°

43: 45°

Coupling:

S: Self-Lock

-: Non Self-Lock for 45° & Straight

-1-: Non Self-Lock for 90°

Finish:

See Table-2
(pg. 486)

Dash Number:
See Table-A

TABLE - A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE	A DIA. (MAX)		B DIA. (MAX)		C (MAX)		D (MAX)		E (MAX)		F (MAX)	
		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
8	8	0.62	15.67	0.89	22.48	0.63	16.00	0.73	18.54	1.32	33.53	0.77	19.61
10	10	0.73	18.64	1.01	25.65	0.74	18.80	0.85	21.59	1.36	34.65	0.80	20.40
12	7/12	0.86	21.79	1.14	28.83	0.86	21.84	0.98	24.89	1.44	36.53	0.87	22.00
14	12/14	0.98	24.99	1.26	32.00	0.86	21.84	0.98	24.89	1.48	37.59	0.93	23.57
16	19/16	1.11	28.24	1.39	35.18	0.99	25.15	1.10	27.94	1.59	40.28	0.99	25.17
18	27/18	1.22	30.94	1.51	38.35	1.24	31.50	1.35	34.29	1.70	43.28	1.11	28.19
20	37/20	1.35	34.16	1.64	41.53	1.36	34.54	1.48	37.59	1.75	44.40	1.17	29.77
22	22	1.47	37.29	1.76	44.70	1.49	37.85	1.60	40.64	1.79	45.52	1.24	31.37
24	24	1.59	40.46	1.89	47.88	1.61	40.89	1.73	43.94	1.84	46.63	1.30	32.94
28	28	1.97	50.01	2.14	54.23	1.76	44.70	1.88	47.75	1.96	49.81	1.54	39.19
32	32	2.22	56.36	2.40	60.83	1.95	49.53	2.13	54.10	2.05	52.04	1.67	42.37
36	36	2.47	62.71	2.64	66.93	2.33	59.18	2.44	61.98	2.09	53.16	1.79	45.54
40	40	2.72	69.06	2.89	73.28	2.51	63.75	2.63	66.80	2.09	53.19	1.92	48.72
44	44	2.97	75.41	3.14	79.63	2.89	73.41	3.00	76.20	2.36	59.94	2.13	54.15
48	48	3.22	81.76	3.39	85.98	3.26	82.80	3.40	86.36	2.45	62.18	2.26	57.33

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

Strain Relief Clamp

Straight, 90° and 45°, Self-Lock/Non Self-Lock, cont.

For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III

TABLE – A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE	G (MAX)		H (MAX)		M (MAX)		CABLE ENTRY			
		INCH	MM	INCH	MM	INCH	MM	MIN		MAX	
								INCH	MM	INCH	MM
08	8	0.93	23.62	0.75	18.95	0.78	19.86	0.13	3.18	0.20	5.18
10	10	1.02	25.91	0.81	20.45	0.86	21.89	0.19	4.75	0.29	7.26
12	7/12	1.21	30.73	0.87	22.02	1.00	25.48	0.29	7.39	0.42	10.57
14	12/14	1.27	32.26	0.93	23.62	1.06	26.95	0.35	8.92	0.48	12.09
16	19/16	1.42	36.07	0.99	25.25	1.33	33.88	0.50	12.73	0.63	15.90
18	27/18	1.53	38.86	1.17	29.74	1.47	37.24	0.52	13.16	0.71	17.93
20	37/20	1.65	41.91	1.23	31.34	1.57	39.93	0.58	14.76	0.83	21.11
22	22	1.78	45.21	1.30	32.92	1.69	42.88	0.64	16.36	0.96	24.28
24	24	1.90	48.26	1.36	34.49	1.79	45.47	0.71	17.93	1.08	27.46
28	28	2.20	55.88	1.57	39.93	2.04	51.69	0.75	19.05	1.19	30.15
32	32	2.27	57.66	1.80	45.64	2.39	60.60	0.88	22.23	1.25	31.75
36	36	2.39	60.71	1.92	48.82	2.50	63.40	0.94	23.83	1.38	34.93
40	40	2.52	64.01	2.05	51.99	2.57	65.18	0.94	23.83	1.50	38.10
44	44	2.77	70.36	2.30	58.32	2.86	72.64	1.19	30.18	1.75	44.45
48	48	2.89	73.41	2.42	61.49	3.34	84.94	1.31	33.32	1.88	47.63

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

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber Optics

High Speed

Contacts

EMI Filter

Transient

Matrix 2

26482

Matrix | Pyle

III

83723

Pyle

26500

5015

Crimp Rear Release Matrix

22992

Class I

Back-

Shells

Options

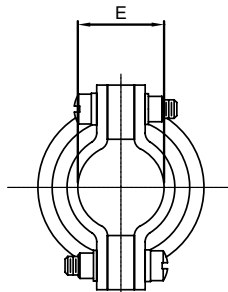
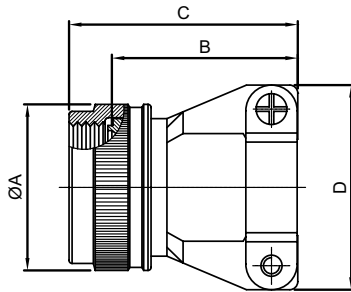
Others

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III



MIL Part Number

M85049 / 118 - 10 W

MIL Series

Slash Sheet:
118: Straight

Finish:
See Table-2
(pg. 486)

Dash Number:
See Table-A

Coupling:
S: Self-Lock
-: Non Self-Lock

TABLE - A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE/ CODE (REF.)	A DIA.(MAX)		B LENGTH		C (MAX)		D (MAX)		E (CLOSED)	
		INCH	MM	INCH	MM	INCH	MM	INCH	MM	±.031	±.787
CONNECTOR SHELL SIZE										INCH	MM
08	8S	0.89	22.61	0.77/0.51	19.56/12.95	1.14	28.96	0.88	22.35	0.22	5.56
10	10S, 10SL	1.01	25.65	0.89/0.64	22.61/16.26	1.25	31.75	0.94	23.88	0.26	6.71
12	12, 12S	1.14	28.96	1.01/0.76	25.65/19.30	1.38	35.05	1.12	28.45	0.34	8.74
14	14, 14S	1.26	32.00	1.01/0.76	25.65/19.30	1.38	35.05	1.19	30.23	0.46	11.68
16	16, 16S	1.39	35.31	1.13/0.88	28.70/22.35	1.50	38.10	1.44	36.58	0.55	13.84
18	18	1.51	38.35	1.38/1.13	35.05/28.70	1.75	44.45	1.56	39.62	0.62	15.62
20	20	1.64	41.66	1.51/1.25	38.35/31.75	1.88	47.75	1.69	42.93	0.69	17.53
22	22	1.76	44.70	1.62/1.38	41.15/35.05	2.00	50.80	1.75	44.45	0.78	19.81
24	24	1.89	48.01	1.76/1.51	44.70/38.35	2.13	54.10	1.88	47.75	0.85	21.59
28	28	2.14	54.36	2.03/1.67	51.56/42.42	2.56	65.02	2.12	53.85	0.95	24.13
32	32	2.40	60.96	2.28/1.87	57.91/47.50	2.81	71.37	2.50	63.50	1.02	25.78
36	36	2.64	67.06	2.53/2.22	64.26/56.39	3.06	77.72	2.62	66.55	1.19	30.15
40	40	2.89	73.41	2.63/2.41	66.80/61.21	3.16	80.26	2.68	68.07	1.22	30.99
44	44	3.14	79.76	3.00/2.80	76.20/71.12	3.53	89.66	3.00	76.20	1.50	38.10
48	48	3.39	86.11	3.40/3.20	86.36/81.28	3.93	99.82	3.50	88.90	1.63	41.28

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

Strain Relief Clamp

90°, Self-Lock/Non Self-Lock

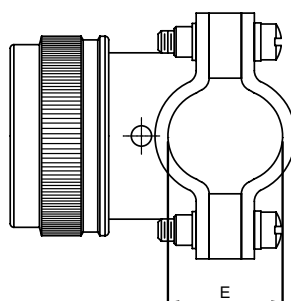
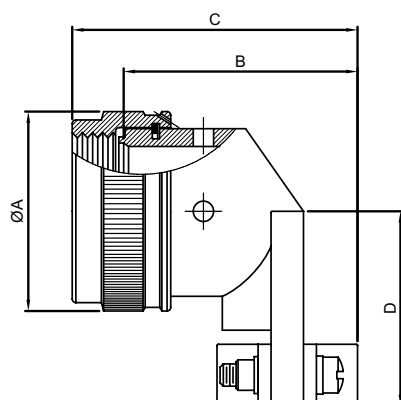
For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III



90 DEGREE

MIL Part Number

M85049 / 120 - 10 W

MIL Series

Slash Sheet:
120: 90°

Finish:
See Table-2
(pg. 486)

Dash Number:
See Table-A

Coupling:
S: Self-Lock
-: Non Self-Lock

TABLE - A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE	A DIA.(MAX)		B (MAX)		C (MAX)		D (MAX)		E (CLOSED)	
		INCH	MM	INCH	MM	INCH	MM	INCH	MM	±.031	±.787
DASH NO											
08	8S	0.88	22.35	0.93	23.62	1.29	32.77	0.81	20.57	0.22	5.56
10	10S, 10SL	0.94	23.88	1.02	25.91	1.38	35.05	0.87	22.10	0.26	6.71
12	12, 12S	1.12	28.45	1.21	30.73	1.57	39.88	0.93	23.62	0.34	8.74
14	14, 14S	1.19	30.23	1.27	32.26	1.63	41.40	1.00	25.40	0.46	11.68
16	16, 16S	1.44	36.58	1.42	36.07	1.78	45.21	1.06	26.92	0.55	13.84
18	18	1.56	39.62	1.53	38.86	1.89	48.01	1.23	31.24	0.62	15.62
20	20	1.69	42.93	1.65	41.91	2.01	51.05	1.30	33.02	0.70	17.73
22	22	1.75	44.45	1.78	45.21	2.14	54.36	1.36	34.54	0.78	19.81
24	24	1.88	47.75	1.90	48.26	2.26	57.40	1.42	36.07	0.85	21.59
28	28	2.12	53.85	2.20	55.88	2.72	69.09	1.63	41.40	0.95	24.13
32	32	2.50	63.50	2.27	57.66	2.79	70.87	1.86	47.24	1.02	25.78
36	36	2.62	66.55	2.39	60.71	2.91	73.91	1.98	50.29	1.19	30.15
40	40	2.68	68.07	2.52	64.01	3.04	77.22	2.10	53.34	1.22	30.99
44	44	3.00	76.20	2.77	70.36	3.29	83.57	2.36	59.94	1.50	38.10
48	48	3.50	88.90	2.89	73.41	3.41	86.61	2.48	62.99	1.63	41.28

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

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

Matrix 2

26482

Matrix | Pyle

83723

III

Pyle

26500

Crimp Rear

Release

Matrix

5015

Class 1

22992

Back-

Shells

Options

Others

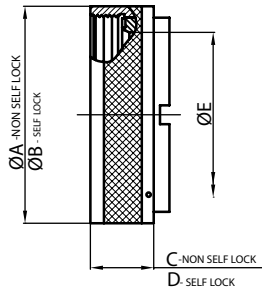
For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III



MIL Part Number

M85049 / 31 - 10 W

MIL Series

Slash Sheet:
31: Straight

Finish:
See Table-2
(pg. 486)

Dash Number:
See Table-A

Coupling:
S: Self-Lock
-: Non Self-Lock

TABLE-A

TABLE-A											
MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE	A DIA. (MAX)		B DIA. (MAX)		C (MAX)		D (MAX)		E (MAX)	
DASH NO		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
08	8	0.62	15.67	0.89	22.48	0.54	13.72	0.71	18.03	0.27	6.86
10	10	0.73	18.64	1.01	25.65	0.54	13.72	0.71	18.03	0.38	9.53
12	7/12	0.86	21.79	1.14	28.83	0.54	13.72	0.71	18.03	0.51	12.98
14	12/14	0.98	24.99	1.26	32.00	0.54	13.72	0.71	18.03	0.59	14.86
16	19/16	1.11	28.24	1.39	35.18	0.54	13.72	0.71	18.03	0.71	18.03
18	27/18	1.22	30.94	1.51	38.35	0.54	13.72	0.71	18.03	0.79	20.04
20	37/20	1.35	34.16	1.64	41.53	0.54	13.72	0.71	18.03	0.91	23.22
22	22	1.47	37.29	1.76	44.70	0.54	13.72	0.71	18.03	1.04	26.39
24	24	1.59	40.46	1.89	47.88	0.54	13.72	0.71	18.03	1.15	29.31
28	28	1.97	50.01	2.14	54.23	0.70	17.83	0.89	22.61	1.39	35.28
32	32	2.22	56.36	2.40	60.83	0.70	17.83	0.89	22.61	1.64	41.53
36	36	2.47	62.71	2.64	66.93	0.70	17.83	0.89	22.61	1.85	46.99
40	40	2.72	69.06	2.89	73.28	0.70	17.83	0.89	22.61	2.07	52.45
44	44	2.97	75.41	3.14	79.63	0.70	17.83	0.89	22.61	2.32	58.93
48	48	3.22	81.76	3.39	85.98	0.70	17.83	0.89	22.61	2.57	65.28

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

Shrink Boot Nut

Straight, Self-Lock/Non Self-Lock

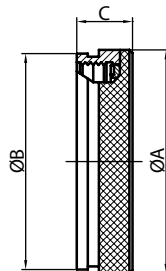
For Connector Family J

26482 Matrix Series 2

5015 Matrix (MS345X)

83723 Matrix & Pyle Series III

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III



MIL Part Number

M85049 / 31 - 10 W

MIL Series: M85049 / 31
Slash Sheet: 31: Straight
Finish: See Table-2 (pg. 486)
Dash Number: See Table-A
Coupling: S: Self-Lock, -: Non Self-Lock

TABLE-A

MIL PART NUMBER DESIGNATOR	CONNECTOR SHELL SIZE	A DIA. (MAX)		B DIA. (MAX)		C (MAX)	
		INCH	MM	INCH	MM	INCH	MM
08	8	0.69	17.48	0.66	16.69	0.54	13.72
10	10	0.80	20.40	0.77	19.66	0.54	13.72
12	7/12	0.94	23.83	0.90	22.81	0.54	13.72
14	12/14	1.06	27.00	1.02	26.01	0.54	13.72
16	19/16	1.24	31.45	1.15	29.26	0.54	13.72
18	27/18	1.31	33.27	1.24	31.57	0.54	13.72
20	37/20	1.44	36.47	1.37	34.80	0.54	13.72
22	22	1.56	39.62	1.44	36.65	0.54	13.72
24	24	1.69	42.82	1.62	41.10	0.54	13.72
28	28	2.06	52.37	1.97	50.01	0.70	17.83
32	32	2.31	58.72	2.22	56.36	0.70	17.83
36	36	2.56	65.07	2.47	62.71	0.70	17.83
40	40	2.81	71.42	2.72	69.06	0.70	17.83
44	44	3.06	77.77	2.97	75.41	0.70	17.83
48	48	3.31	84.12	3.22	81.76	0.70	17.83

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

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

Fiber

Optics

Contacts

High Speed

EMI Filter

Transient

26482

Matrix 2

83723

III

26500

Pyle

5015

Crimp Rear Release Matrix

22992

Class I

Back-

Shells

Options

Others

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru

www.lifeelectronics.ru