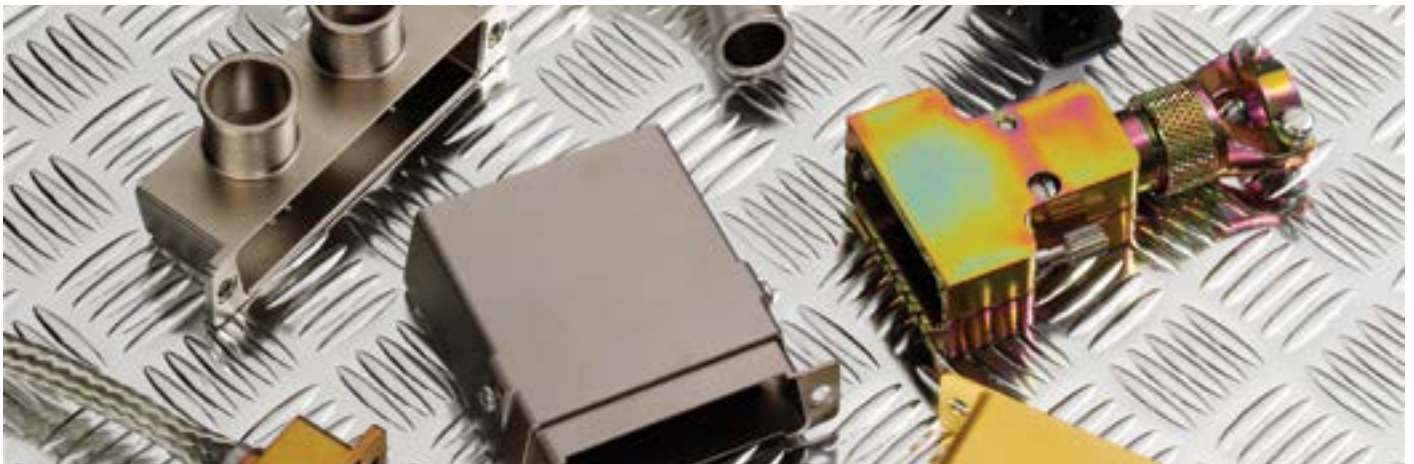




RECTANGULAR BACKSHELLS AND ACCESSORIES

VERSATILE PRODUCT OFFERING FOR RACK AND PANEL CONNECTORS

D-Subminiature: MIL-DTL-24308
Micro-D: MIL-DTL-83513

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Rectangular Backshells and Accessories



VERSATILE PRODUCT OFFERING

- Compatible with many shell sizes and plating finishes
- Wide variety of customizable options within the standard ranges to suit specific requirements

HIGH RELIABILITY

- Provides strain-relief and cable support to help prevent bending or overflexing
- Individual or overall screening against EMI/RFI interference
- Protection towards the effectiveness of the cable and sealing against water and dirt ingress

EASY INSTALLATION

- Simple and fast termination solutions with various hardware options
- Two-part components allow uncoupling for repairs

For High-Performance Sealing and Strain Relief, the Ideal Mate for a Connector in a Wiring Application, is a TE Backshell

TE Connectivity (TE) supplies a comprehensive range of rectangular POLAMCO backshells and accessories that can assist in providing effective strain relief, environmental sealing, and electromagnetic interference (EMI)/radio frequency interference (RFI) shielding, helping you meet today's challenges in demanding environments, across many market sectors, including Defense and Space.

Rugged Designs that Save Weight

When it comes to taming harsh environments, TE offers a broad array of shell styles, materials, and finishes to help meet the requirements of a program.

- Thin flange shells offer the lowest weight vs. a standard flange
- Split solutions and various hardware options allow for easy installation
- Sliding lids and blanking cans enable easy cable repair

These highly durable rectangular backshells are time tested for reliability in some of the toughest environments

Solve Tough Application Challenges with TE

We work closely with customers to help meet their most demanding requirements for some of the world's toughest applications. Whether for ground defense, military aerospace, marine, or deep space applications, TE designs and manufactures rectangular backshells and accessories to be ruggedly reliable, easy to install, lighter, and with more options. Various materials and configurations help maximize performance, reliability, and efficiency.



Rectangular Backshells and Accessories



Selecting Your Rectangular Backshell

TE offers an extensive standard range of backshell styles to suit a wide variety of applications and requirements. These ranges can be extensively customized using an array of plating options, materials and modification codes.

Connector Type

Rectangular backshell series align with specific rack and panel connector series.

- D-Subminiature backshells mate with MIL-DTL-24308 and ESCC3401/002
- Micro Miniature backshells mate with MIL-DTL-83513

If a connector part number is available, your TE support representative can use it to narrow your scope of options.

Entry Sizes

Entry size is the diameter of the hole through which the cable enters into the adapter. When selecting the backshell cable entry sizes, it is a good idea to err on the side of too large as an undersized cable can always be enlarged with tape or a grommet to fit the cable clamp. Where it is not possible to physically measure the wire bundle diameter it can be calculated from the individual wire diameters. Contact TE on detailed guide for calculating the wire bundle diameter using page 5.

Application Environment

A complete description of the backshell's intended use is recommended. We offer a wide variety of hardware and accessories to meet the most demanding requirements of the world's toughest applications, such as shipboard, space, aerospace, and land artillery vehicles.

Part Attributes

Use the series' catalog pages or product drawings to define attributes to develop a specific part number. Page 6 summarizes material and plating options.

Performance Requirement

Supporting a range of termination options, TE backshells give a reliable solution for strain relief or screen termination. The customer must consider what their preferences, testing requirements, and level of repairability needed.

Modifications

Other options (such as extended length, part marking, etc) are available and are defined by standard modification codes. Alongside the standard ranges TE also offers custom solutions to fit more exact requirements. Contact TE to find out more.

Rectangular Backshells and Accessories

Calculating Wire Bundle Diameters

Where it is not possible to physically measure the wire bundle diameter it can be estimated from the individual wire diameters using the following calculation.

When selecting the backshell cable entry size from provided tables, it is a good idea to err on the side of too large, as an undersized cable can always be enlarged with tape or a grommet to fit the cable clamp. When calculating wire bundle diameters, note that the gauge # of the wire describes only the diameter of the metal conductor, and not the overall diameter including insulation and/or braids. Refer to the appropriate wire specification for the actual diameter of the wire for use in the following calculations.

Steps:

1. Determine each type of wire diameter
2. Choose the multiplication factor from table 1 below
3. Calculate the bundle diameter using the following formula:

$$(\text{Bundle Diameter}) = \text{Factor} \times \sqrt{n_1 \times d_1^2 + n_2 \times d_2^2 + n_3 \times d_3^2 + \dots + n_n \times d_n^2}$$

Where $d_1 \dots d_n$ are diameters of each type of wire in the bundle (when using wires from different diameters)
 $n_1 \dots n_n$ the quantity of wires with the same diameter

Factor is chosen in according to the total number of wires in the bundle (TABLE 1)

4. Add thickness of any shielding or jacketing to core wire bundle diameter.

$$(\text{Final OD}) = (\text{Bundle Diameter}) + 2 \times (\text{Shield Thickness}) + 2 \times (\text{Jacket Thickness})$$

Table 1

MULTIPLICATION FACTORS							
NO OF WIRES	1	2	3	4	5	6	7 AND MORE
FACTOR	1	1.415	1.242	1.205	1.208	1.225	1.15

Rectangular Backshells and Accessories

Material and Plating Codes

MATERIAL DESCRIPTION	
1	ALUMINIUM ALLOY
2	NICKEL ALUMINIUM BRONZE (MARINE APPLICATIONS)
4	STAINLESS STEEL 303
46	STAINLESS STEEL 316 (MARINE APPLICATIONS)
6	STAINLESS STEEL NUT / ALUMINIUM BODY
74	PEI (30% GLASS FILLED HIGH TEMPERATURE COMPOSITE)

Refer to TE material specification DM0076

PLATING DESCRIPTION				
		ROHS COMPLIANT	CONDUCTIVITY	ENVIRONMENTAL PROTECTION
B	CADMIUM, OLIVE DRAB OVER ELECTROLESS NICKEL	NO	CONDUCTIVE	500 HRS
C	ELECTROLESS NICKEL	YES	CONDUCTIVE	48 HRS
D	BLACK ANODISE	YES	NON CONDUCTIVE	500 HRS
J	PASSIVATE (STAINLESS STEEL ONLY)	YES	—	MATERIAL CODE 4 - 500 HRS MATERIAL CODE 46 - 1000 HRS
TN	PTFE OVER HIGH PHOSPHORUS ELECTROLESS NICKEL	YES	CONDUCTIVE	500 HRS
U	UNPLATED CLEAN FINISH NOT SHOT BLASTED	YES	—	NOT TESTED
Z	SHOT BLAST FOR NON-REFLECTIVE FINISH (NICKEL ALUMINIUM BRONZE ONLY)	YES	CONDUCTIVE	1000 HRS
ZB	ZINC COBALT OVER ELECTROLESS NICKEL WITH AN OLIVE DRAB CHROMATE CONVERSION	YES	CONDUCTIVE	500 HRS
ZK	ZINC COBALT OVER ELECTROLESS NICKEL WITH A BLACK CHROMATE CONVERSION	YES	CONDUCTIVE	350 HRS
ZN	ZINC NICKEL BLACK PASSIVATE OVER ELECTROLESS NICKEL	YES	CONDUCTIVE	500 HRS

These lists are not exhaustive - contact TE for further information

MBDSM Series – Micro Band Termination

For MIL-DTL-24308 Connectors



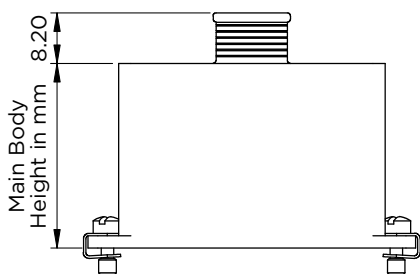
Single Body, Flange Mount

- Overall screen termination by band
- Wide range of circular or elliptical entry ports to suit cable requirements
- With or without heat shrink boot groove
- Bands ordered separately from TE – see page 49

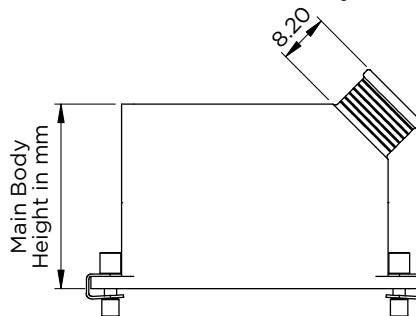
SPECIFICATION

- **Mates to:** MIL-DTL-24308 and ESCC3401/002
- **Screen Termination:** Overall screen
- **Strain Relief and Cable Sealing:** Heat shrink boot option
- **Additional Components Required:** Boot, band

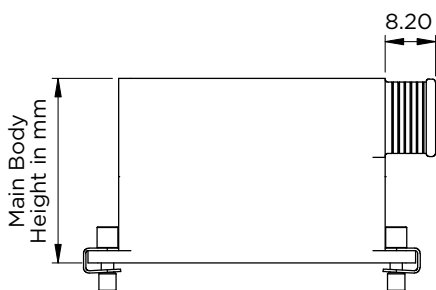
U – Top Entry



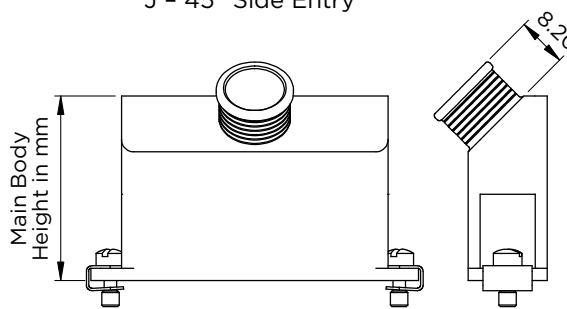
F – 45° End Entry



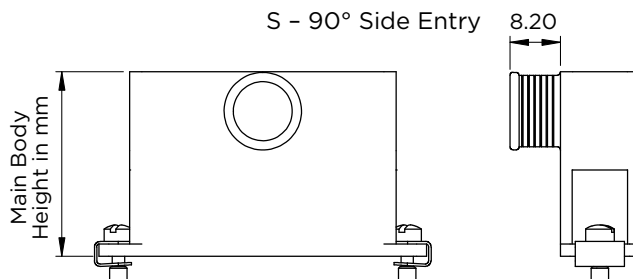
E – 90° End Entry



J – 45° Side Entry



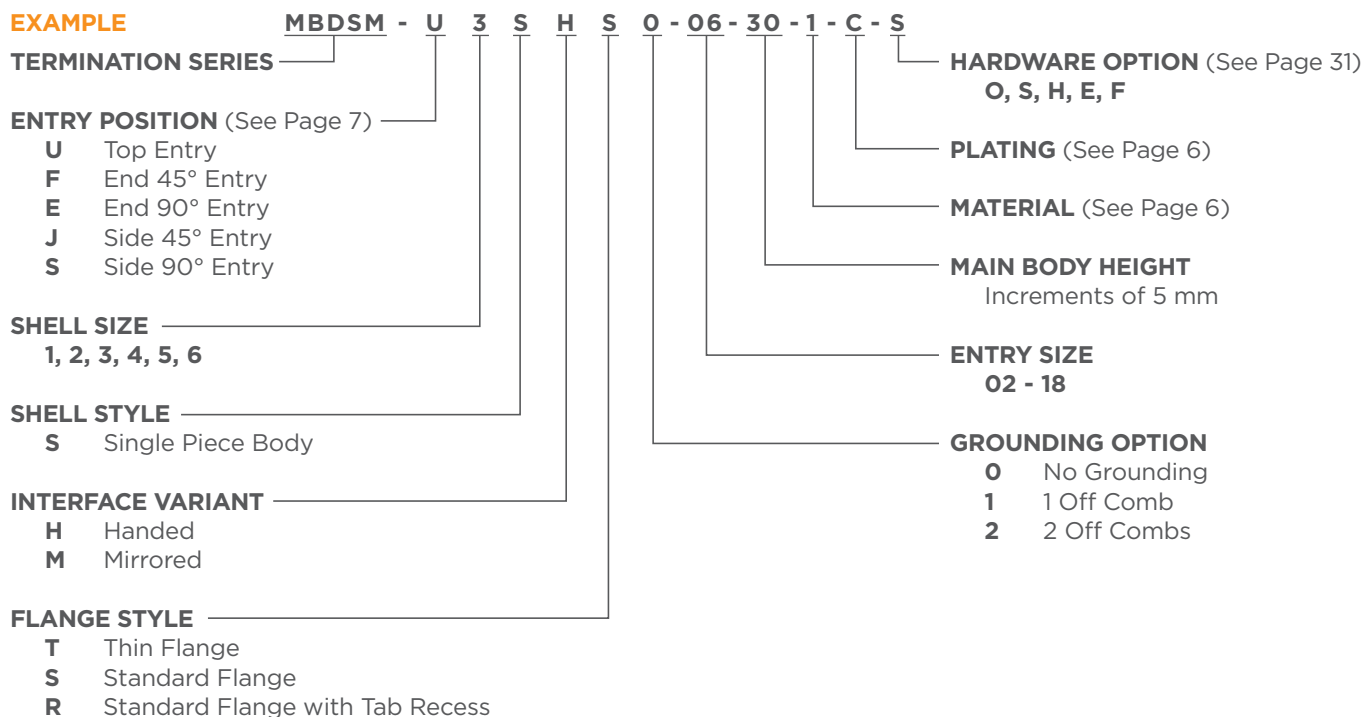
S – 90° Side Entry



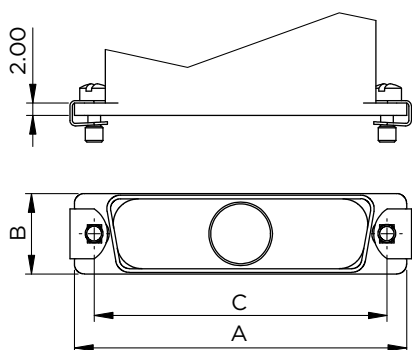
MBDSM Series – Micro Band Termination

For MIL-DTL-24308 Connectors

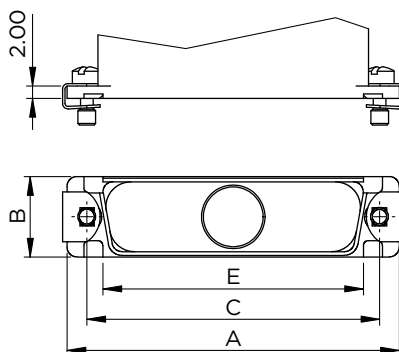
EXAMPLE



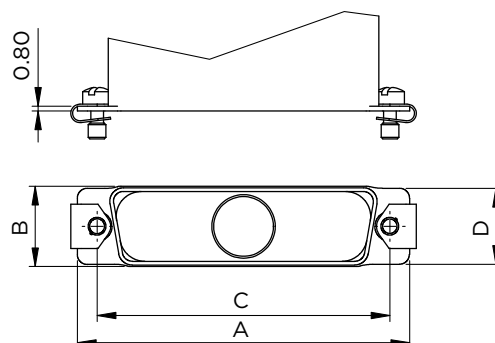
Flange Code: S (Standard)
 Grounding Code: 0 (No Grounding)



Flange Code: R (Standard, Tab Recess)
 Grounding Code: 0 (No Grounding)

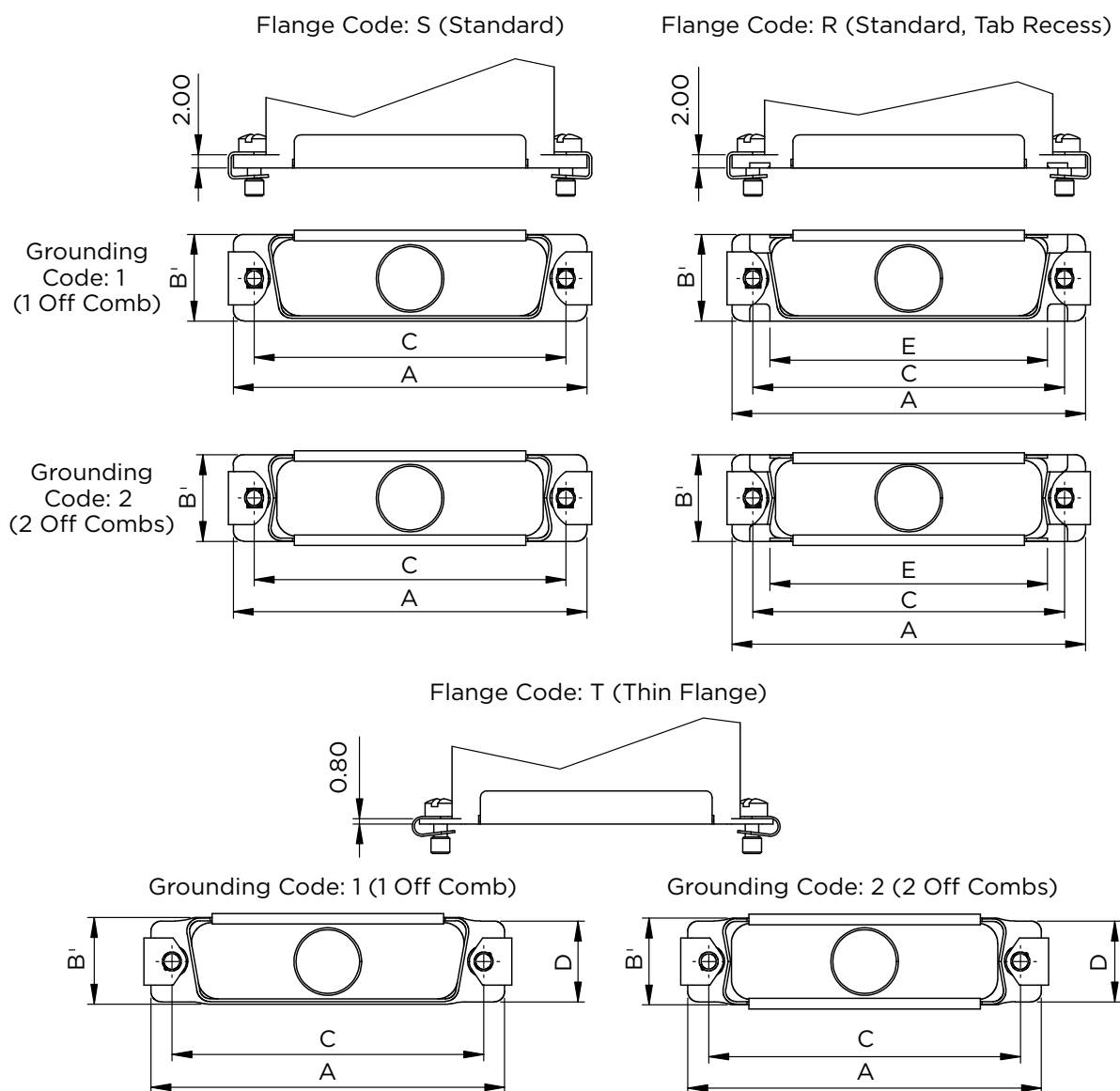


Flange Code: T (Thin Flange)
 Grounding Code: 0 (No Grounding)



MBDSM Series – Micro Band Termination

For MIL-DTL-24308 Connectors



Grounding Combs Shown for Illustrative Purposes Only – Combs are Sold Separately

Shell Size	A	B	C	D	E
1	31.14	12.93	25.00	12.20	19.86
2	39.47	12.93	33.33	12.20	28.09
3	53.37	12.93	47.04	12.20	41.86
4	69.71	12.93	63.50	12.20	58.32
5	67.26	15.75	61.12	15.20	55.98
6	69.65	17.35	63.50	16.50	58.57

Measurements shown in mm

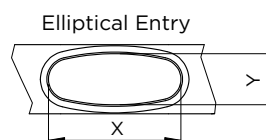
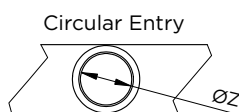
MBDSM Series – Micro Band Termination

For MIL-DTL-24308 Connectors

AVAILABLE ENTRY SIZES

Shell Size	U – Top Entry		F – 45° End Entry		E – 90° End Entry		J – 45° Side Entry		S – 90° Side Entry	
	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical
1	02 - 06	07 - 08	02 - 06	07 - 08	02 - 06	07 - 13	02 - 06	07 - 08	02 - 06	07 - 08
2	02 - 06	07 - 10	02 - 06	07 - 11	02 - 06	07 - 13	02 - 06	07 - 10	02 - 06	07 - 10
3	02 - 06	07 - 12	02 - 06	07 - 14	02 - 06	07 - 13	02 - 06	07 - 12	02 - 06	07 - 12
4	02 - 06	07 - 15	02 - 06	07 - 15	02 - 06	07 - 13	02 - 06	07 - 15	02 - 06	07 - 15
5	02 - 08	09 - 16	02 - 08	09 - 16	02 - 08	09 - 13	02 - 08	09 - 16	02 - 08	09 - 16
6	02 - 09	10 - 18	02 - 09	10 - 18*	02 - 09	10 - 13*	02 - 09	10 - 18	02 - 09	10 - 18

* Maximum entry size not supported within the 60.0 mm maximum main body height when grounding combs are deployed; maximum entry size is limited to 17 (F entry position) and 12 (E entry position)



ENTRY SIZE TABLE 1 – CIRCULAR ENTRY ONLY

Entry Size (Circular)	Dia Z Min	U – Top Entry Minimum Main Body Height in mm	F – 45° End Entry Minimum Main Body Height in mm		E – 90° End Entry Minimum Main Body Height in mm		J – 45° Side Entry Minimum Main Body Height in mm		S – 90° Side Entry Minimum Main Body Height in mm	
			Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)
02	3.18	20.0	25.0	30.0	25.0	25.0	25.0	30.0	25.0	35.0
03	4.77	20.0	25.0	30.0	25.0	30.0	25.0	30.0	25.0	35.0
04	6.35	20.0	25.0	30.0	25.0	30.0	25.0	30.0	25.0	35.0
05	7.93	20.0	25.0	30.0	30.0	30.0	25.0	30.0	25.0	35.0
06	9.53	20.0	25.0	30.0	30.0	35.0	25.0	30.0	25.0	35.0
07	11.11	20.0	25.0	35.0	30.0	35.0	25.0	35.0	30.0	35.0
08	12.70	20.0	30.0	35.0	30.0	35.0	25.0	35.0	30.0	35.0
09	14.29	20.0	30.0	35.0	35.0	40.0	25.0	35.0	30.0	40.0

ENTRY SIZE TABLE 2 – ELLIPTICAL ENTRY ONLY

Entry Size (Elliptical)	X Min	Y Min	U – Top Entry Minimum Main Body Height in mm	F – 45° End Entry Minimum Main Body Height in mm		E – 90° End Entry Minimum Main Body Height in mm		J – 45° Side Entry Minimum Main Body Height in mm		S – 90° Side Entry Minimum Main Body Height in mm	
				Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)
07	13.0	9.5	20.0	30.0	35.0	35.0	35.0	25.0	30.0	25.0	35.0
08	16.5	9.5	20.0	30.0	35.0	35.0	40.0	25.0	30.0	25.0	35.0
09	20.5	9.5	20.0	35.0	40.0	40.0	45.0	25.0	30.0	25.0	35.0
10	24.7	9.5	20.0	35.0	40.0	45.0	50.0	25.0	30.0	25.0	35.0
11	29.4	9.5	20.0	40.0	45.0	50.0	55.0	25.0	30.0	25.0	35.0
12	34.6	9.5	20.0	45.0	50.0	55.0	60.0	25.0	30.0	25.0	35.0
13	40.2	9.5	20.0	50.0	55.0	60.0	NA	25.0	30.0	25.0	35.0
14	46.2	9.5	20.0	50.0	55.0	NA	NA	25.0	30.0	25.0	35.0
15	52.7	9.5	20.0	55.0	60.0	NA	NA	25.0	30.0	25.0	35.0
16	50.0	12.0	20.0	55.0	60.0	NA	NA	25.0	35.0	30.0	35.0
17	49.2	13.9	20.0	55.0	60.0	NA	NA	25.0	35.0	30.0	40.0
18	54.9	13.9	20.0	60.0	NA	NA	NA	25.0	35.0	30.0	40.0

Measurements shown in mm

MBDSM Series – Micro Band Termination

For MIL-DTL-24308 Connectors

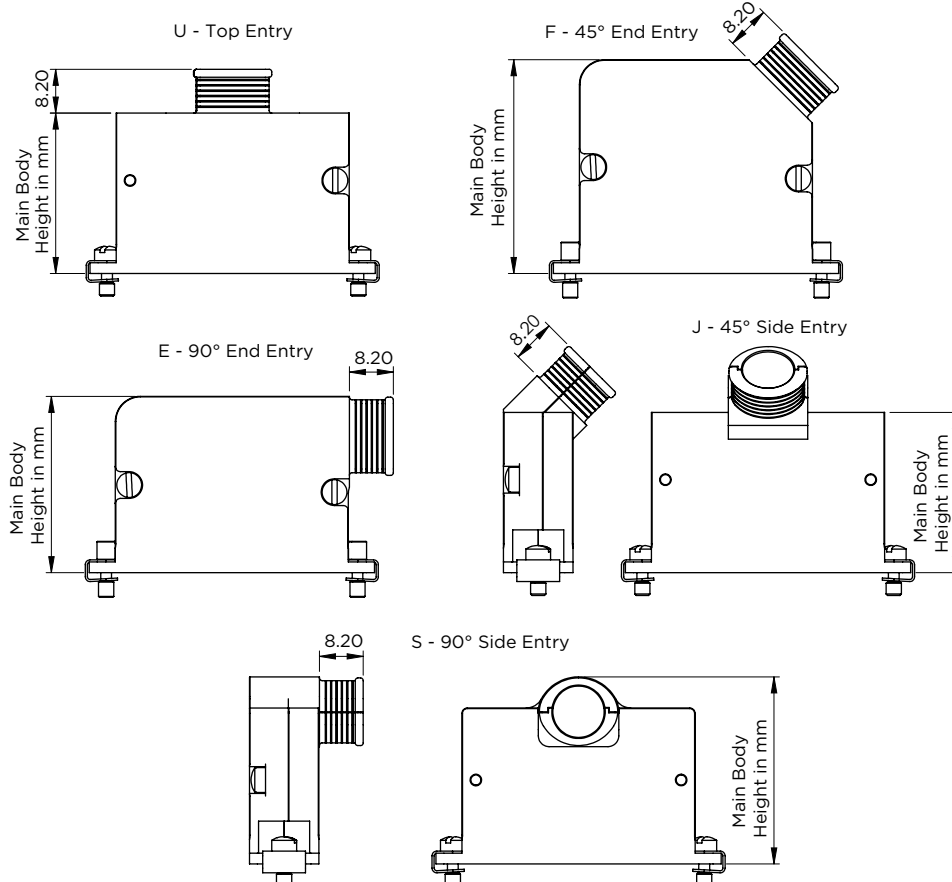


Split Body, Flange Mount

- Overall screen termination by band
- Wide range of circular or elliptical entry ports to suit cable requirements
- Easy installation over already terminated wires
- Bands ordered separately from TE – see page 49

SPECIFICATION

- **Mates to:** MIL-DTL-24308
- **Screen Termination:** Overall screen
- **Strain Relief and Cable Sealing:** Heat shrink boot option
- **Additional Components Required:** Boot, band



Shell Size	U - Top Entry Main Body Height in mm		F - 45° End Entry Main Body Height in mm		E - 90° End Entry Main Body Height in mm		J - 45° Side Entry Main Body Height in mm		S - 90° Side Entry Main Body Height in mm	
	Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)
1	30.0	35.0	35.0	40.0	Main Body Height for Entry Position E is Determined by Entry Size – Please See Page 13		30.0	35.0	35.0	40.0
2	30.0	35.0	40.0	45.0			30.0	35.0	35.0	40.0
3	30.0	35.0	40.0	45.0			30.0	35.0	35.0	40.0
4	30.0	35.0	47.0	52.0			30.0	35.0	35.0	40.0
5	30.0	35.0	47.0	52.0			30.0	35.0	35.0	40.0
6	30.0	35.0	47.0	52.0			30.0	35.0	35.0	40.0

Measurements shown in mm

MBDSM Series - Micro Band Termination

For MIL-DTL-24308 Connectors

EXAMPLE

MBDSM - U 3 T M S - 0 - 06 - 30 - 1 - C S

TERMINATION SERIES

ENTRY POSITION (See Page 11)

- U** Top Entry
- F** End 45° Entry
- E** End 90° Entry
- J** Side 45° Entry
- S** Side 90° Entry

SHELL SIZE

1, 2, 3, 4, 5, 6

SHELL STYLE

- T** Two Piece Body

INTERFACE VARIANT

- M** Mirrored

FLANGE STYLE

- S** Standard Flange
- R** Standard Flange with Tab Recess

HARDWARE OPTION (See Page 31)
O, S, H, E, F, K

PLATING (See Page 6)

MATERIAL (See Page 6)

MAIN BODY HEIGHT (See Page 11)
Not a Variable Option

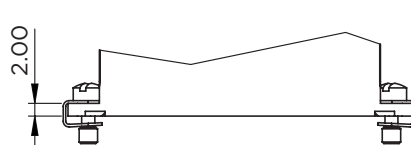
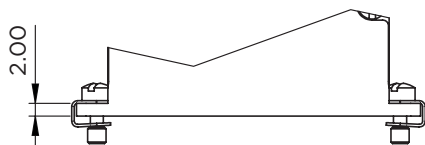
ENTRY SIZE
02 - 18

GROUNDING OPTION

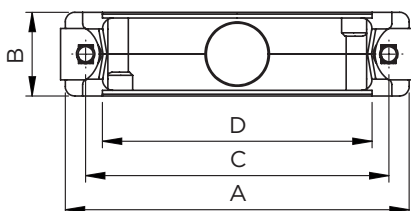
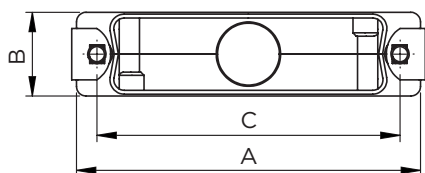
- 0** No Grounding
- 1** 1 Off Comb
- 2** 2 Off Combs

Flange Code: S (Standard)

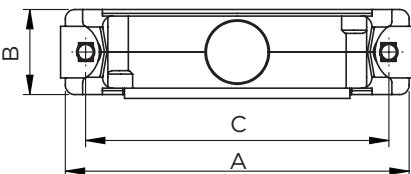
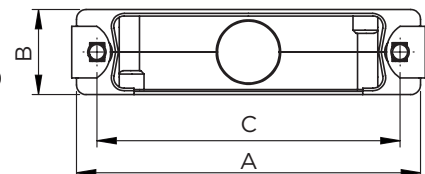
Flange Code: R (Standard, Tab Recess)



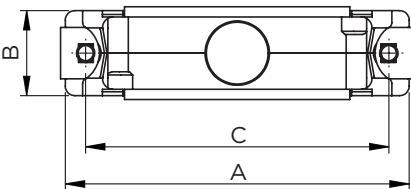
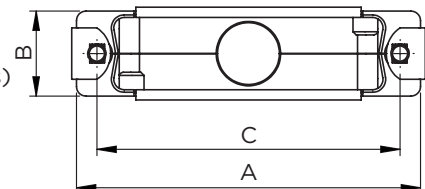
Grounding
Code: 0
(No Combs)



Grounding
Code: 1
(1 Off Comb)



Grounding
Code: 2
(2 Off Combs)



Shell Size	A	B	C	D	E
1	31.14	12.93	25.00	12.20	19.86
2	39.47	12.93	33.33	12.20	28.09
3	53.37	12.93	47.04	12.20	41.86
4	69.71	12.93	63.50	12.20	58.32
5	67.26	15.75	61.12	15.20	55.98
6	69.65	17.35	63.50	16.50	58.57

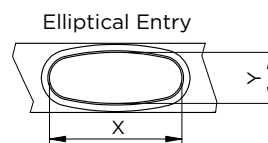
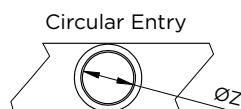
Grounding Combs Shown for Illustrative Purposes Only - Combs are Sold Separately
Measurements shown in mm

MBDSM Series – Micro Band Termination

For MIL-DTL-24308 Connectors

AVAILABLE ENTRY SIZES

Shell Size	U – Top Entry		F – 45° End Entry		E – 90° End Entry		J – 45° Side Entry		S – 90° Side Entry	
	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical
1	02 - 06	07 - 08	02 - 06	07	02 - 06	07 - 10	02 - 06	07 - 08	02 - 06	—
2	02 - 06	07 - 10	02 - 06	07 - 08	02 - 06	07 - 10	02 - 06	07 - 10	02 - 06	07
3	02 - 06	07 - 12	02 - 06	07 - 09	02 - 06	07 - 10	02 - 06	07 - 12	02 - 06	07 - 10
4	02 - 06	07 - 15	02 - 06	07 - 11	02 - 06	07 - 10	02 - 06	07 - 15	02 - 06	07 - 13
5	02 - 08	09 - 16	02 - 08	09 - 12	02 - 08	09 - 10	02 - 08	09 - 16	02 - 08	09 - 13
6	02 - 09	10 - 18	02 - 09	10 - 12	02 - 09	10	02 - 09	10 - 18	02 - 09	10 - 13



ENTRY SIZE TABLE 1 – CIRCULAR ENTRY ONLY

Entry Size (Circular)	Dia Z Min	U – Top Entry Main Body Height in mm		F – 45° End Entry Main Body Height in mm		E – 90° End Entry Main Body Height in mm		J – 45° Side Entry Main Body Height in mm		S – 90° Side Entry Main Body Height in mm	
		Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)
02	3.18	Main Body Height for Entry Position U is Determined by Shell Size – Please See Page 11		Main Body Height for Entry Position F is Determined by Shell Size – Please See Page 11		33.0	38.0	Main Body Height for Entry Position J is Determined by Shell Size – Please See Page 11		Main Body Height for Entry Position S is Determined by Shell Size – Please See Page 11	
03	4.77					33.0	38.0				
04	6.35					33.0	38.0				
05	7.93					33.0	38.0				
06	9.53					33.0	38.0				
07	11.11					33.0	38.0				
08	12.70					33.0	38.0				
09	14.29					33.0	38.0				

ENTRY SIZE TABLE 2 – ELLIPTICAL ENTRY ONLY

Entry Size (Elliptical)	X Min	Y Min	U – Top Entry Main Body Height in mm		F – 45° End Entry Main Body Height in mm		E – 90° End Entry Main Body Height in mm		J – 45° Side Entry Main Body Height in mm		S – 90° Side Entry Main Body Height in mm	
			Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)
07	13.0	9.5	Main Body Height for Entry Position U is Determined by Shell Size – Please See Page 11		Main Body Height for Entry Position F is Determined by Shell Size – Please See Page 11		36.0	41.0	Main Body Height for Entry Position J is Determined by Shell Size – Please See Page 11		Main Body Height for Entry Position S is Determined by Shell Size – Please See Page 11	
08	16.5	9.5					40.0	45.0				
09	20.5	9.5					44.0	49.0				
10	24.7	9.5					48.0	53.0				
11	29.4	9.5					NA	NA				
12	34.6	9.5					NA	NA				
13	40.2	9.5					NA	NA				
14	46.2	9.5					NA	NA				
15	52.7	9.5					NA	NA				
16	50.0	12.0					NA	NA				
17	49.2	13.9					NA	NA				
18	54.9	13.9					NA	NA				

Measurements shown in mm

MBDSM Series – Micro Band Termination

For MIL-DTL-24308 Connectors



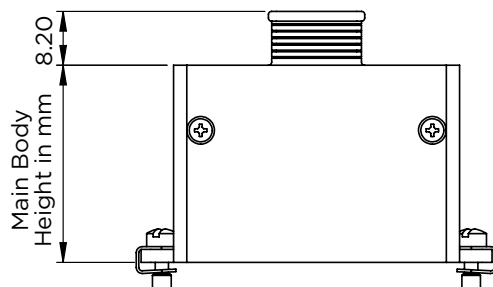
Sliding Body, Flange Mount

- Overall screen termination by band
- Wide range of circular or elliptical entry ports to suit cable requirements
- Added benefit of connector retention
- Bands ordered separately from TE – see page 49

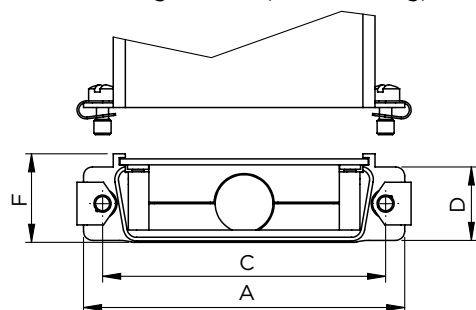
SPECIFICATION

- Mates to: MIL-DTL-24308
- **Screen Termination:** Overall screen
- **Strain Relief and Cable Sealing:** Heat shrink boot option
- **Additional Components Required:** Boot, band

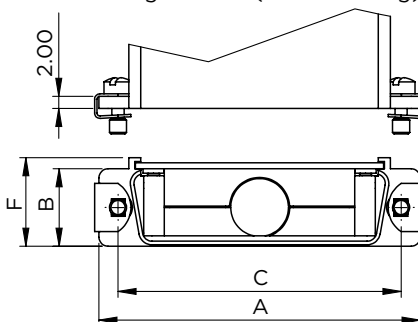
U – Top Entry



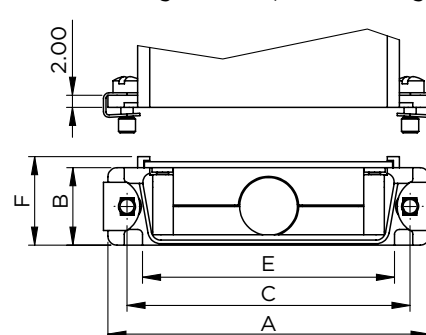
Flange Code: T (Thin Flange)
Grounding Code: 0 (No Grounding)



Flange Code: S (Standard)
Grounding Code: 0 (No Grounding)



Flange Code: R (Standard, Tab Recess)
Grounding Code: 0 (No Grounding)



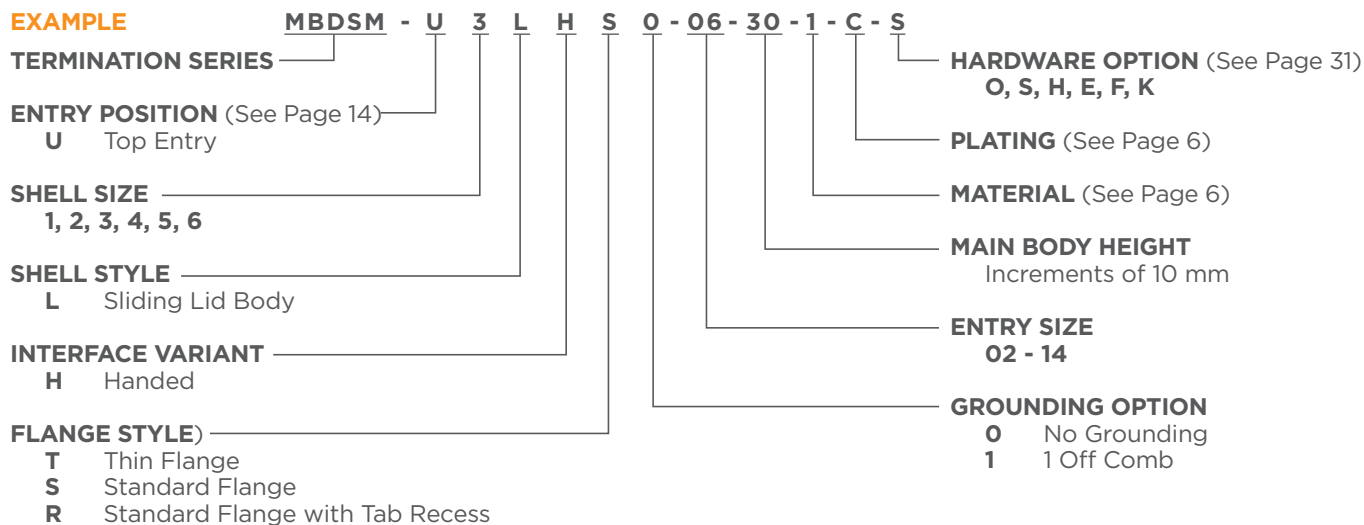
Shell Size	A	B	C	D	E	F
1	31.14	12.93	25.00	12.20	19.86	14.73
2	39.47	12.93	33.33	12.20	28.09	14.73
3	53.37	12.93	47.04	12.20	41.86	14.73
4	69.71	12.93	63.50	12.20	58.32	14.73
5	67.26	15.75	61.12	15.20	55.98	17.55
6	69.65	17.35	63.50	16.50	58.57	19.15

Measurements shown in mm

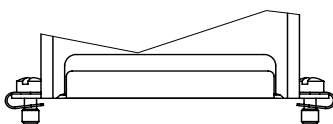
MBDSM Series – Micro Band Termination

For MIL-DTL-24308 Connectors

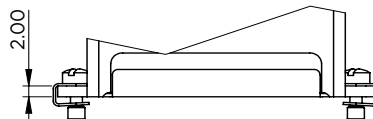
EXAMPLE



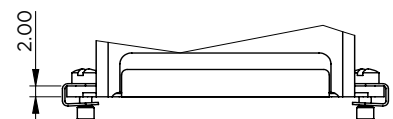
Flange Code: T (Thin Flange)



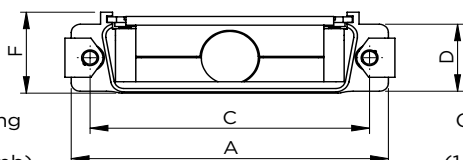
Flange Code: S (Standard)



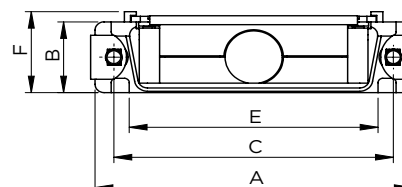
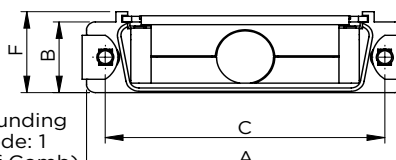
Flange Code: R (Standard, Tab Recess)



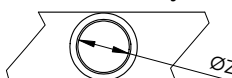
Grounding
Code: 1
(1 Off Comb)



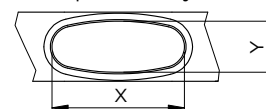
Grounding
Code: 1
(1 Off Comb)



Circular Entry



Elliptical Entry



ENTRY SIZE TABLE 1 –
CIRCULAR ENTRY ONLY

Shell Size	U – Top Entry	
	Circular	Elliptical
1	02 - 06	NA
2	02 - 06	07 - 08
3	02 - 06	07 - 11
4	02 - 06	07 - 14
5	02 - 08	09 - 13
6	02 - 09	10 - 14

Entry Size (Circular)	Dia Z Min
02	3.18
03	4.77
04	6.35
05	7.93
06	9.53
07	11.11
08	12.70
09	14.29

ENTRY SIZE TABLE 2 –
ELLIPTICAL ENTRY ONLY

Entry Size (Elliptical)	X Min	Y Min
07	13.0	9.5
08	16.5	9.5
09	20.5	9.5
10	24.7	9.5
11	29.4	9.5
12	34.6	9.5
13	40.2	9.5
14	46.2	9.5

Grounding Combs Shown for Illustrative Purposes Only – Combs are Sold Separately
Measurements shown in mm

MBDSM Series – Micro Band Termination

For MIL-DTL-24308 Connectors

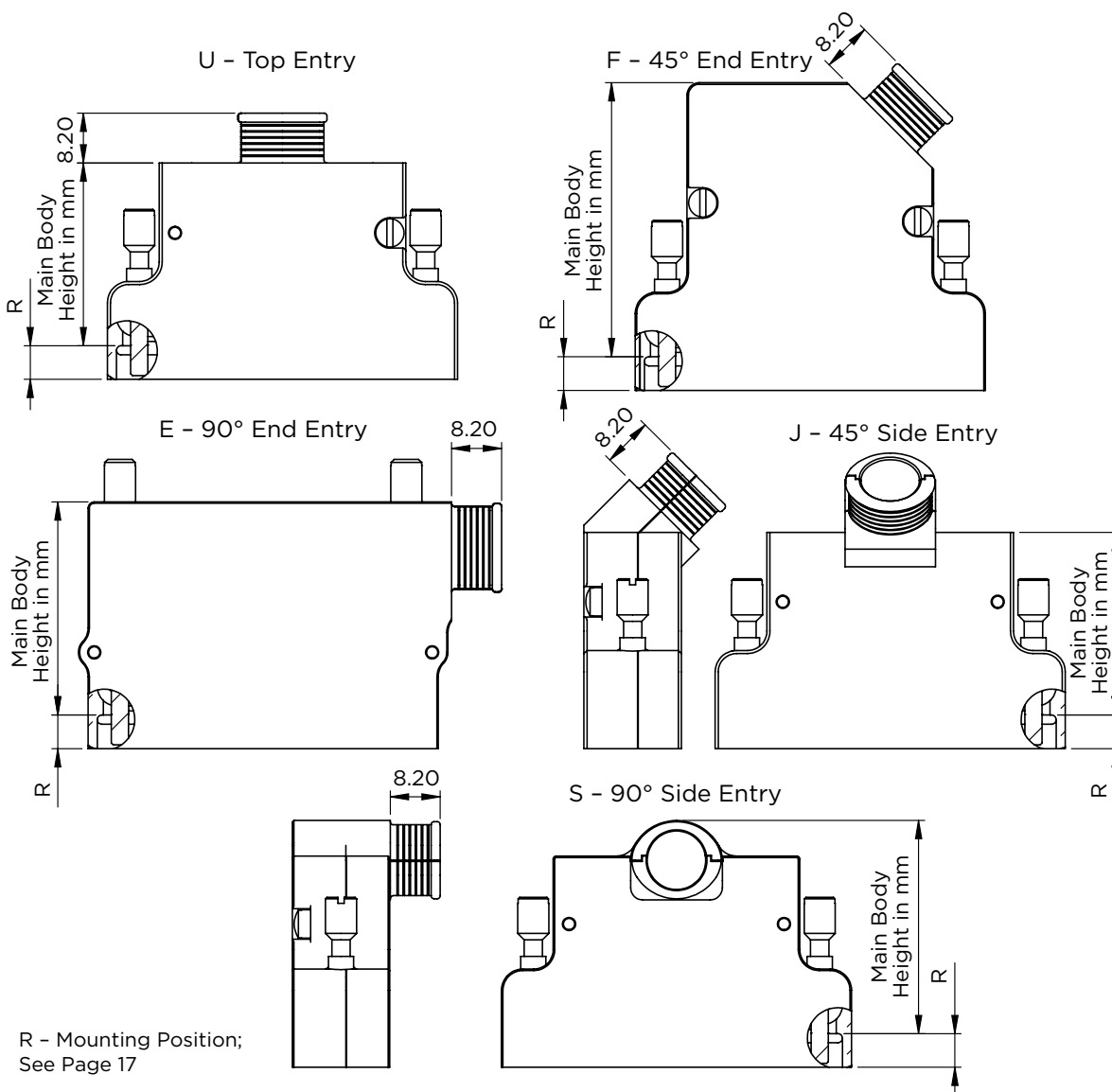


Split Body, Shrouded

- Overall screen termination by band
- Flexible design, suitable for retro fit and prototyping
- Easy installation over already terminated wires
- Bands ordered separately from TE – see page 49

SPECIFICATION

- **Mates to:** MIL-DTL-24308
- **Screen Termination:** Overall screen
- **Strain Relief and Cable Sealing:** Heat shrink boot option
- **Additional Components Required:** Boot, band

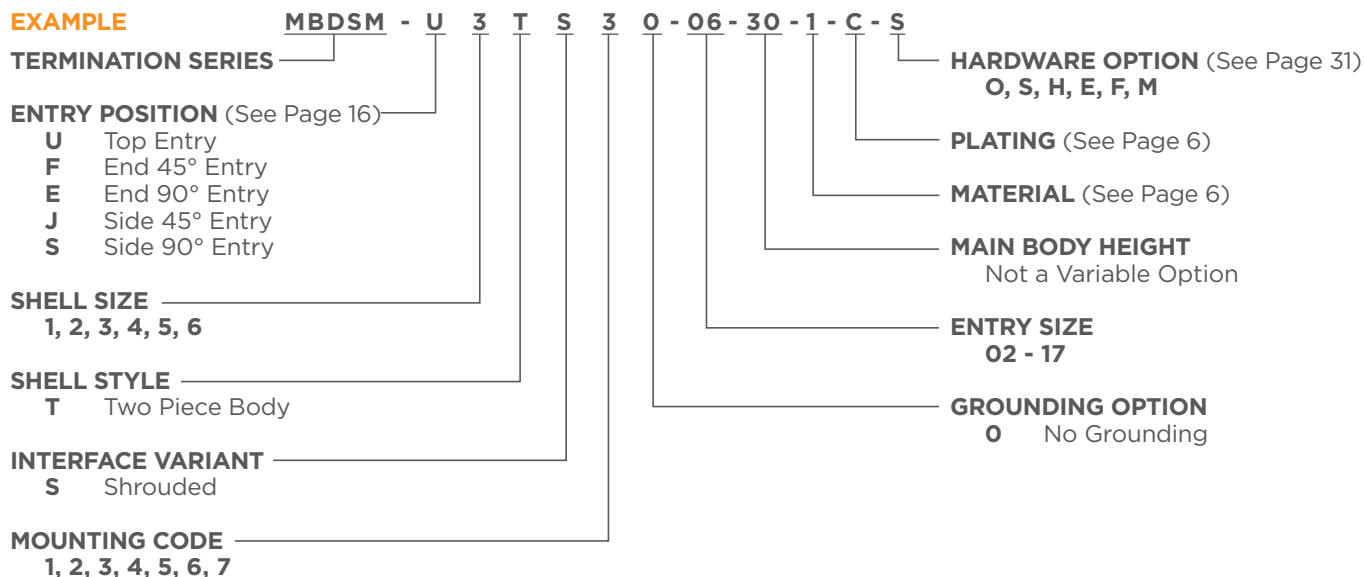


Measurements shown in mm

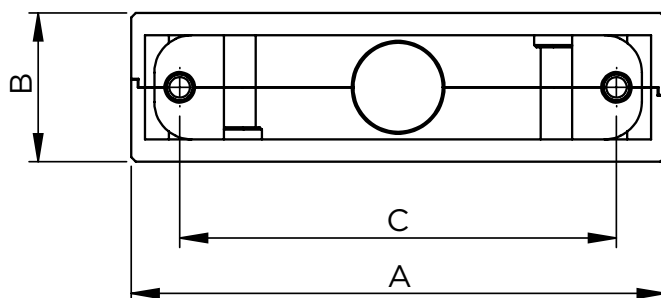
MBDSM Series – Micro Band Termination

For MIL-DTL-24308 Connectors

EXAMPLE

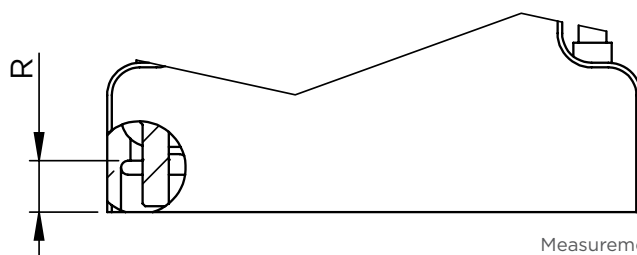


Shell Size	U – Top Entry Main Body Height in mm	F – 45° End Entry Main Body Height in mm	E – 90° End Entry Main Body Height in mm	J – 45° Side Entry Main Body Height in mm	S – 90° Side Entry Main Body Height in mm
1	30.0	40.0	Main Body Height for Entry Position E is Determined by Entry Size – Please See Page 18	30.0	35.0
2	30.0	40.0		30.0	35.0
3	30.0	45.0		30.0	35.0
4	30.0	50.0		30.0	35.0
5	30.0	50.0		30.0	35.0
6	30.0	50.0		30.0	35.0



Shell Size	A	B	C
1	35.0	16.0	25.00
2	43.3	16.0	33.33
3	57.5	16.0	47.04
4	73.3	16.0	63.50
5	70.9	19.0	61.12
6	73.3	20.5	63.50

Mounting Code



Mounting Code	Receptacle Mounting Position	Panel Thickness	R
1	Front Mount	—	7.74
2	Rear Mount	0.79	6.32
3	Rear Mount	1.57	5.53
4	Rear Mount	2.36	4.74
5	Rear Mount	3.18	3.93
6	Rear Mount	3.97	3.14
7	Rear Mount	4.77	2.34

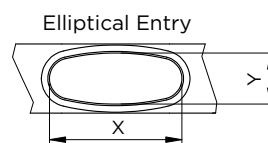
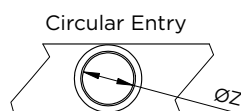
Measurements shown in mm

MBDSM Series – Micro Band Termination

For MIL-DTL-24308 Connectors

AVAILABLE ENTRY SIZES

Shell Size	U – Top Entry		F – 45° End Entry		E – 90° End Entry		J – 45° Side Entry		S – 90° Side Entry	
	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical
1	02 - 08	NA	02 - 08	NA	02 - 08	09 - 10	02 - 04	NA	02 - 04	NA
2	02 - 08	09	02 - 08	NA	02 - 08	09 - 10	02 - 08	NA	02 - 08	NA
3	02 - 08	09 - 12	02 - 08	09	02 - 08	09 - 10	02 - 08	09 - 10	02 - 08	09 - 10
4	02 - 08	09 - 14	02 - 08	09 - 11	02 - 08	09 - 10	02 - 08	09 - 13	02 - 08	09 - 13
5	02 - 09	10 - 14	02 - 09	10 - 11	02 - 09	10	02 - 09	10 - 13	02 - 09	10 - 13
6	02 - 10	11 - 17	02 - 10	11	02 - 10	—	02 - 10	11 - 13	02 - 10	11 - 13



ENTRY SIZE TABLE 1 – CIRCULAR ENTRY ONLY

Entry Size (Circular)	Dia Z Min	U – Top Entry Main Body Height in mm	F – 45° End Entry Main Body Height in mm	E – 90° End Entry Main Body Height in mm	J – 45° Side Entry Main Body Height in mm	S – 90° Side Entry Main Body Height in mm
02	3.18	Main Body Height for Entry Position U is Determined by Shell Size – Please See Page 17	Main Body Height for Entry Position F is Determined by Shell Size – Please See Page 17	35.0	Main Body Height for Entry Position J is Determined by Shell Size – Please See Page 17	Main Body Height for Entry Position S is Determined by Shell Size – Please See Page 17
03	4.77			35.0		
04	6.35			35.0		
05	7.93			35.0		
06	9.53			35.0		
07	11.11			35.0		
08	12.70			35.0		
09	14.29			35.0		
10	15.88			35.0		

ENTRY SIZE TABLE 2 – ELLIPTICAL ENTRY ONLY

Entry Size (Elliptical)	X Min	Y Min	U – Top Entry Main Body Height in mm	F – 45° End Entry Main Body Height in mm	E – 90° End Entry Main Body Height in mm	J – 45° Side Entry Main Body Height in mm	S – 90° Side Entry Main Body Height in mm
09	20.5	9.5	Main Body Height for Entry Position U is Determined by Shell Size – See Page 17	Main Body Height for Entry Position F is Determined by Shell Size – See Page 17	45.0	Main Body Height for Entry Position J is Determined by Shell Size – Please See Page 17	Main Body Height for Entry Position S is Determined by Shell Size – Please See Page 17
10	24.7	9.5			45.0		
11	29.4	9.5			NA		
12	34.6	9.5			NA		
13	40.2	9.5			NA		
14	46.2	9.5			NA		
15	52.7	9.5			NA		
16	50.0	12.0			NA		
17	49.2	13.9			NA		

Measurements shown in mm

MPDSM Series – Micro Band Termination with Tie Post

For MIL-DTL-24308 Connectors

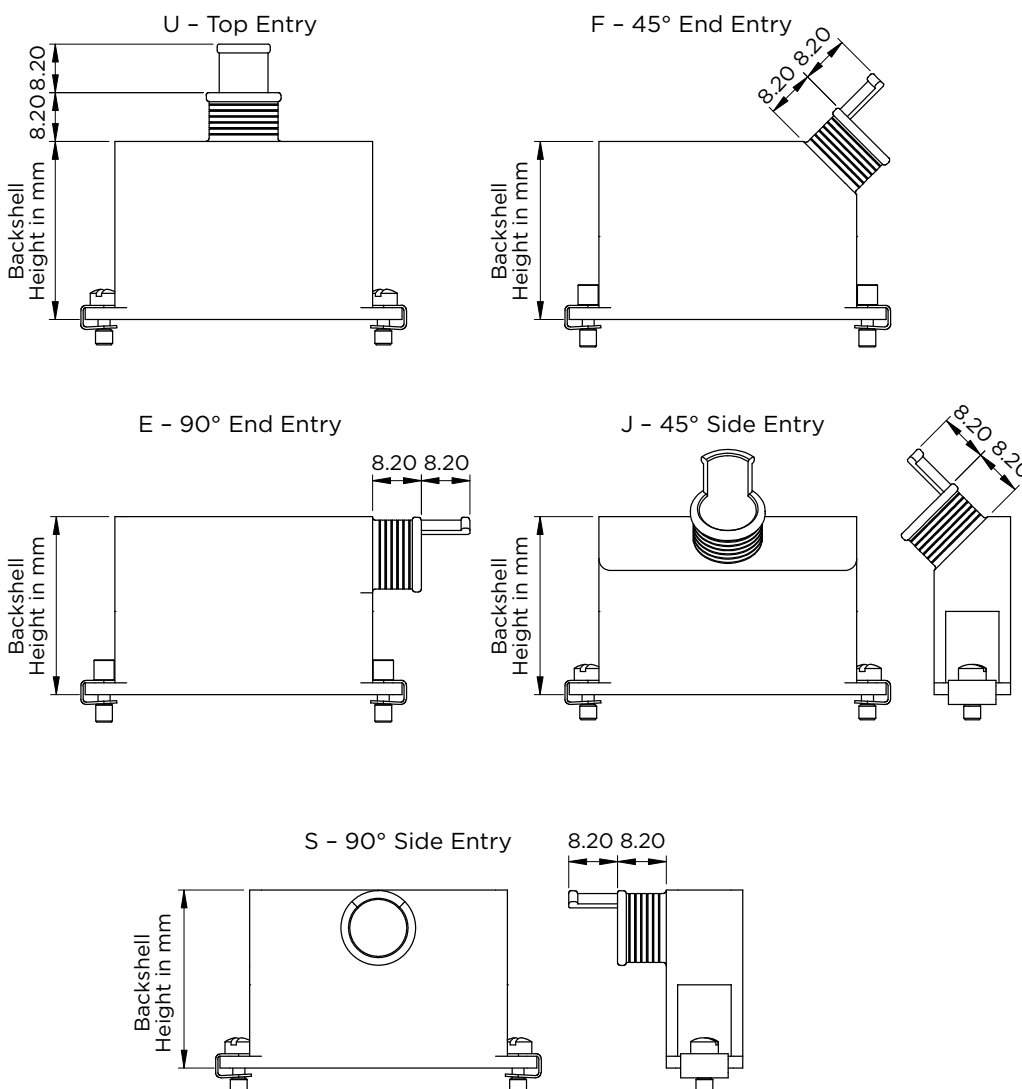


Single Body, Flange Mount with Tie Post

- Overall screen termination by band
- Wide range of circular or elliptical entry ports to suit cable requirements
- Provides strain relief by tying cables in place using post
- Bands ordered separately from TE – see page 49

SPECIFICATION

- **Mates to:** MIL-DTL-24308
- **Screen Termination:** Overall screen
- **Strain Relief and Cable Sealing:** Heat shrink boot option
- **Additional Components Required:** Boot, band



MPDSM Series – Micro Band Termination with Tie Post

For MIL-DTL-24308 Connectors

EXAMPLE

MPDSM - U 3 S H S 0 - 06 - 30 - 1 - C - S

TERMINATION SERIES

ENTRY POSITION (See Page 19)

- U** Top Entry
- F** End 45° Entry
- E** End 90° Entry
- J** Side 45° Entry
- S** Side 90° Entry

SHELL SIZE

1, 2, 3, 4, 5, 6

SHELL STYLE

- S** Single Piece Body

INTERFACE VARIANT

- H** Handed
- M** Mirrored

FLANGE STYLE

- T** Thin Flange
- S** Standard Flange
- R** Standard Flange with Tab Recess

HARDWARE OPTION (See Page 31)
O, S, H, E, F

PLATING (See Page 6)

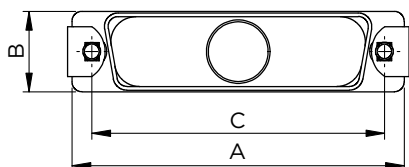
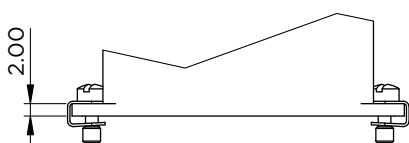
MATERIAL (See Page 6)

MAIN BODY HEIGHT
Increments of 5 mm

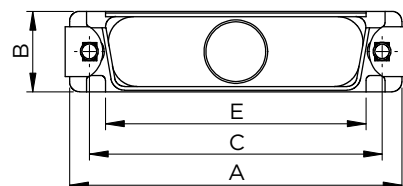
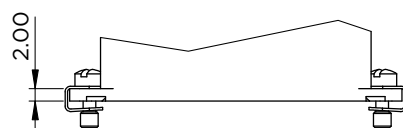
ENTRY SIZE
02 - 18

GROUNDING OPTION
0 No Grounding
1 1 Off Comb
2 2 Off Combs

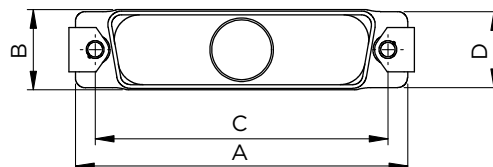
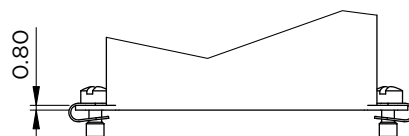
Flange Code: S (Standard)
Grounding Code: 0 (No Grounding)



Flange Code: R (Standard, Tab Recess)
Grounding Code: 0 (No Grounding)



Flange Code: T (Thin Flange)
Grounding Code: 0 (No Grounding)



Grounding Combs Shown for Illustrative Purposes Only – Combs are Sold Separately

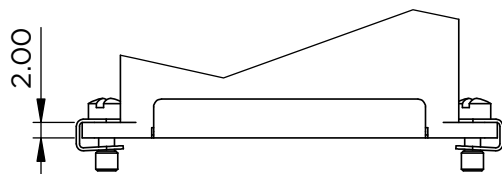
Shell Size	A	B	C	D	E
1	31.14	12.93	25.00	12.20	19.86
2	39.47	12.93	33.33	12.20	28.09
3	53.37	12.93	47.04	12.20	41.86
4	69.71	12.93	63.50	12.20	58.32
5	67.26	15.75	61.12	15.20	55.98
6	69.65	17.35	63.50	16.50	58.57

Measurements shown in mm

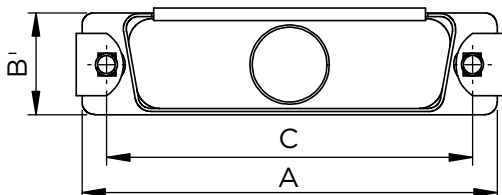
MPDSM Series – Micro Band Termination with Tie Post

For MIL-DTL-24308 Connectors

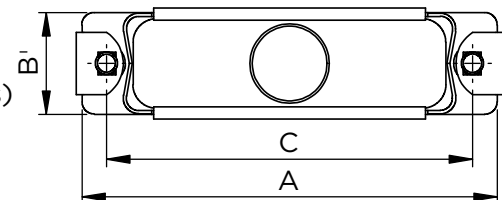
Flange Code: S (Standard)



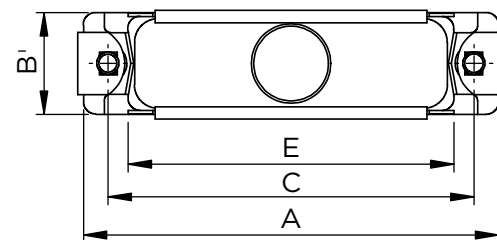
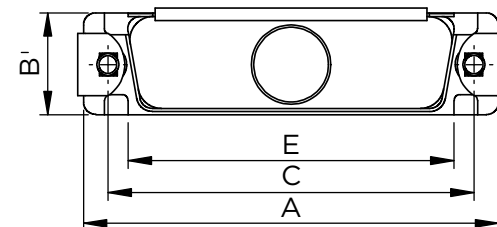
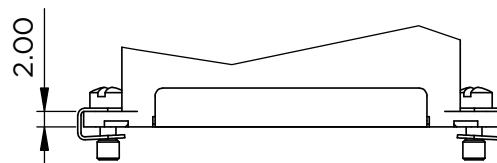
Grounding
Code: 1
(1 Off Comb)



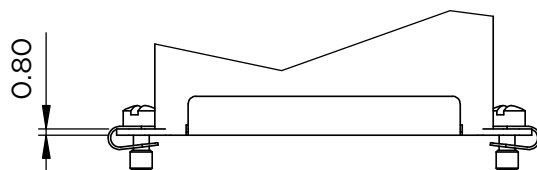
Grounding
Code: 2
(2 Off Combs)



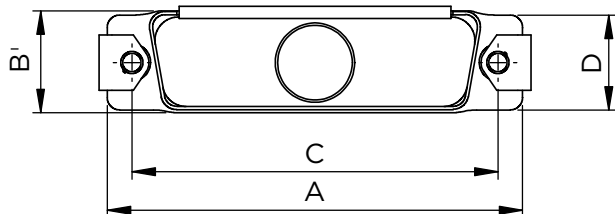
Flange Code: R (Standard, Tab Recess)



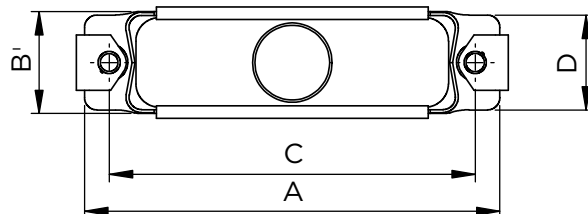
Flange Code: T (Thin Flange)



Grounding Code: 1 (1 Off Comb)



Grounding Code: 2 (2 Off Combs)



Grounding Combs Shown for Illustrative Purposes Only – Combs are Sold Separately

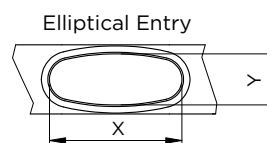
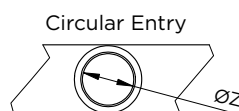
MPDSM Series – Micro Band Termination with Tie Post

For MIL-DTL-24308 Connectors

AVAILABLE ENTRY SIZES

Shell Size	U – Top Entry		F – 45° End Entry		E – 90° End Entry		J – 45° Side Entry		S – 90° Side Entry	
	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical
1	02 - 06	07 - 08	02 - 06	07 - 08	02 - 06	07 - 13	02 - 06	07 - 08	02 - 06	07 - 08
2	02 - 06	07 - 10	02 - 06	07 - 11	02 - 06	07 - 13	02 - 06	07 - 10	02 - 06	07 - 10
3	02 - 06	07 - 12	02 - 06	07 - 14	02 - 06	07 - 13	02 - 06	07 - 12	02 - 06	07 - 12
4	02 - 06	07 - 15	02 - 06	07 - 15	02 - 06	07 - 13	02 - 06	07 - 15	02 - 06	07 - 15
5	02 - 08	09 - 16	02 - 08	09 - 16	02 - 08	09 - 13	02 - 08	09 - 16	02 - 08	09 - 16
6	02 - 09	10 - 18	02 - 09	10 - 18*	02 - 09	10 - 13*	02 - 09	10 - 18	02 - 09	10 - 18

* Maximum entry size not supported within the 60.0 mm maximum main body height when grounding combs are deployed; maximum entry size is limited to 17 (F entry position) and 12 (E entry position)



ENTRY SIZE TABLE 1 – CIRCULAR ENTRY ONLY

Entry Size (Circular)	Dia Z Min	U – Top Entry Minimum Main Body Height in mm	F – 45° End Entry Minimum Main Body Height in mm		E – 90° End Entry Minimum Main Body Height in mm		J – 45° Side Entry Minimum Main Body Height in mm		S – 90° Side Entry Minimum Main Body Height in mm	
			Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)
02	3.18	20.0	25.0	30.0	25.0	25.0	25.0	30.0	25.0	35.0
03	4.77	20.0	25.0	30.0	25.0	30.0	25.0	30.0	25.0	35.0
04	6.35	20.0	25.0	30.0	25.0	30.0	25.0	30.0	25.0	35.0
05	7.93	20.0	25.0	30.0	30.0	30.0	25.0	30.0	25.0	35.0
06	9.53	20.0	25.0	30.0	30.0	35.0	25.0	30.0	25.0	35.0
07	11.11	20.0	25.0	35.0	30.0	35.0	25.0	35.0	30.0	35.0
08	12.70	20.0	30.0	35.0	30.0	35.0	25.0	35.0	30.0	35.0
09	14.29	20.0	30.0	35.0	35.0	40.0	25.0	35.0	30.0	40.0

ENTRY SIZE TABLE 2 – ELLIPTICAL ENTRY ONLY

Entry Size (Elliptical)	X Min	Y Min	U – Top Entry Minimum Main Body Height in mm	F – 45° End Entry Minimum Main Body Height in mm		E – 90° End Entry Minimum Main Body Height in mm		J – 45° Side Entry Minimum Main Body Height in mm		S – 90° Side Entry Minimum Main Body Height in mm	
				Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)
07	13.0	9.5	20.0	30.0	35.0	35.0	35.0	25.0	30.0	25.0	35.0
08	16.5	9.5	20.0	30.0	35.0	35.0	40.0	25.0	30.0	25.0	35.0
09	20.5	9.5	20.0	35.0	40.0	40.0	45.0	25.0	30.0	25.0	35.0
10	24.7	9.5	20.0	35.0	40.0	45.0	50.0	25.0	30.0	25.0	35.0
11	29.4	9.5	20.0	40.0	45.0	50.0	55.0	25.0	30.0	25.0	35.0
12	34.6	9.5	20.0	45.0	50.0	55.0	60.0	25.0	30.0	25.0	35.0
13	40.2	9.5	20.0	50.0	55.0	60.0	NA	25.0	30.0	25.0	35.0
14	46.2	9.5	20.0	50.0	55.0	NA	NA	25.0	30.0	25.0	35.0
15	52.7	9.5	20.0	55.0	60.0	NA	NA	25.0	30.0	25.0	35.0
16	50.0	12.0	20.0	55.0	60.0	NA	NA	25.0	35.0	30.0	35.0
17	49.2	13.9	20.0	55.0	60.0	NA	NA	25.0	35.0	30.0	40.0
18	54.9	13.9	20.0	60.0	NA	NA	NA	25.0	35.0	30.0	40.0

Measurements shown in mm

MPDSM Series – Micro Band Termination with Tie Post

For MIL-DTL-24308 Connectors

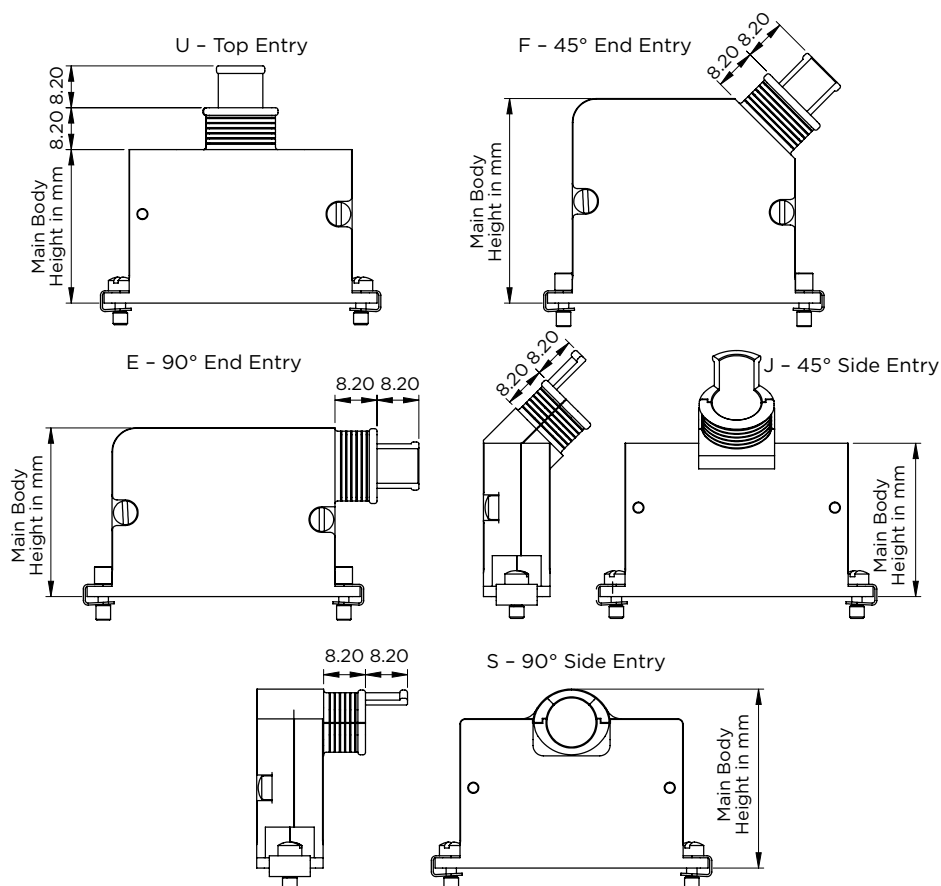


Split Body, Flange Mount with Tie Post

- Overall screen termination by band
- Easy installation over already terminated wires
- Provides strain relief by tying cables in place using post
- Bands ordered separately from TE – see page 49

SPECIFICATION

- **Mates to:** MIL-DTL-24308
- **Screen Termination:** Overall screen
- **Strain Relief and Cable Sealing:** Heat shrink boot option
- **Additional Components Required:** Boot, band



Shell Size	U - Top Entry Main Body Height in mm		F - 45° End Entry Main Body Height in mm		E - 90° End Entry Main Body Height in mm		J - 45° Side Entry Main Body Height in mm		S - 90° Side Entry Main Body Height in mm	
	Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)
1	30.0	35.0	35.0	40.0	Main Body Height for Entry Position E is Determined by Entry Size - Please See Page 25		30.0	35.0	35.0	40.0
2	30.0	35.0	40.0	45.0			30.0	35.0	35.0	40.0
3	30.0	35.0	40.0	45.0			30.0	35.0	35.0	40.0
4	30.0	35.0	47.0	52.0			30.0	35.0	35.0	40.0
5	30.0	35.0	47.0	52.0			30.0	35.0	35.0	40.0
6	30.0	35.0	47.0	52.0			30.0	35.0	35.0	40.0

Measurements shown in mm

MPDSM Series – Micro Band Termination with Tie Post

For MIL-DTL-24308 Connectors

EXAMPLE

MPDSM - U 3 T M S 0 - 06 - 30 - 1 - C - S

TERMINATION SERIES

HARDWARE OPTION (See Page 31)
O, S, H, E, F, K

ENTRY POSITION (See Page 23)

U Top Entry
 F End 45° Entry
 E End 90° Entry
 J Side 45° Entry
 S Side 90° Entry

PLATING (See Page 6)

MATERIAL (See Page 6)

MAIN BODY HEIGHT (See Page 23)
Not a Variable Option

SHELL SIZE

1, 2, 3, 4, 5, 6

ENTRY SIZE
02 - 18

SHELL STYLE

T Two Piece Body

GROUNDING OPTION

0 No Grounding
 1 1 Off Comb
 2 2 Off Combs

INTERFACE VARIANT

M Mirrored

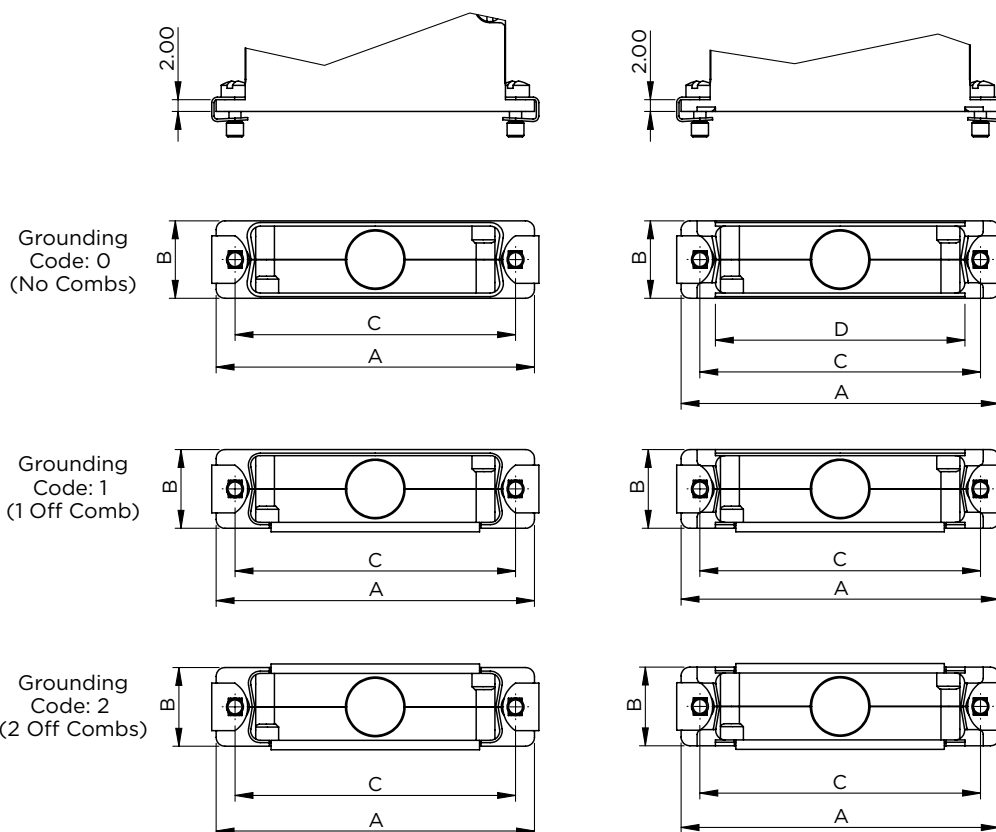
FLANGE STYLE

S Standard Flange
 R Standard Flange with Tab Recess

Shell Size	A	B	C	D	E
1	31.14	12.93	25.00	12.20	19.86
2	39.47	12.93	33.33	12.20	28.09
3	53.37	12.93	47.04	12.20	41.86
4	69.71	12.93	63.50	12.20	58.32
5	67.26	15.75	61.12	15.20	55.98
6	69.65	17.35	63.50	16.50	58.57

Flange Code: S (Standard)

Flange Code: R (Standard, Tab Recess)



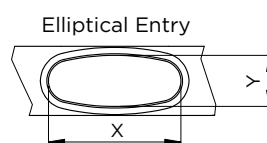
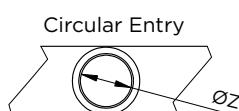
Grounding Combs Shown for Illustrative Purposes Only – Combs are Sold Separately
 Measurements shown in mm

MPDSM Series – Micro Band Termination with Tie Post

For MIL-DTL-24308 Connectors

AVAILABLE ENTRY SIZES

Shell Size	U – Top Entry		F – 45° End Entry		E – 90° End Entry		J – 45° Side Entry		S – 90° Side Entry	
	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical
1	02 - 06	07 - 08	02 - 06	07	02 - 06	07 - 10	02 - 06	07 - 08	02 - 06	—
2	02 - 06	07 - 10	02 - 06	07 - 08	02 - 06	07 - 10	02 - 06	07 - 10	02 - 06	07
3	02 - 06	07 - 12	02 - 06	07 - 09	02 - 06	07 - 10	02 - 06	07 - 12	02 - 06	07 - 10
4	02 - 06	07 - 15	02 - 06	07 - 11	02 - 06	07 - 10	02 - 06	07 - 15	02 - 06	07 - 13
5	02 - 08	09 - 16	02 - 08	09 - 12	02 - 08	09 - 10	02 - 08	09 - 16	02 - 08	09 - 13
6	02 - 09	10 - 18	02 - 09	10 - 12	02 - 09	10	02 - 09	10 - 18	02 - 09	10 - 13



ENTRY SIZE TABLE 1 – CIRCULAR ENTRY ONLY

Entry Size (Circular)	Dia Z Min	U – Top Entry Main Body Height in mm		F – 45° End Entry Main Body Height in mm		E – 90° End Entry Main Body Height in mm		J – 45° Side Entry Main Body Height in mm		S – 90° Side Entry Main Body Height in mm	
		Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)
02	3.18	Main Body Height for Entry Position U is Determined by Shell Size – Please See Page 23		Main Body Height for Entry Position F is Determined by Shell Size – Please See Page 23		33.0	38.0	Main Body Height for Entry Position J is Determined by Shell Size – Please See Page 23		Main Body Height for Entry Position S is Determined by Shell Size – Please See Page 23	
03	4.77					33.0	38.0				
04	6.35					33.0	38.0				
05	7.93					33.0	38.0				
06	9.53					33.0	38.0				
07	11.11					33.0	38.0				
08	12.70					33.0	38.0				
09	14.29					33.0	38.0				

ENTRY SIZE TABLE 2 – ELLIPTICAL ENTRY ONLY

Entry Size (Elliptical)	X Min	Y Min	U – Top Entry Main Body Height in mm		F – 45° End Entry Main Body Height in mm		E – 90° End Entry Main Body Height in mm		J – 45° Side Entry Main Body Height in mm		S – 90° Side Entry Main Body Height in mm	
			Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)	Without Comb	With Comb(s)
07	13.0	9.5	Main Body Height for Entry Position U is Determined by Shell Size – Please See Page 23		Main Body Height for Entry Position F is Determined by Shell Size – Please See Page 23		36.0	41.0	Main Body Height for Entry Position J is Determined by Shell Size – Please See Page 23		Main Body Height for Entry Position S is Determined by Shell Size – Please See Page 23	
08	16.5	9.5					40.0	45.0				
09	20.5	9.5					44.0	49.0				
10	24.7	9.5					48.0	53.0				
11	29.4	9.5					NA	NA				
12	34.6	9.5					NA	NA				
13	40.2	9.5					NA	NA				
14	46.2	9.5					NA	NA				
15	52.7	9.5					NA	NA				
16	50.0	12.0					NA	NA				
17	49.2	13.9					NA	NA				
18	54.9	13.9					NA	NA				

Measurements shown in mm

MPDSM Series – Micro Band Termination with Tie Post

For MIL-DTL-24308 Connectors

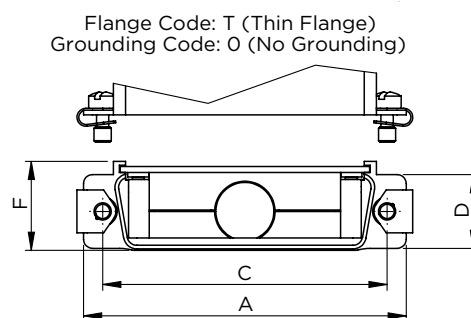
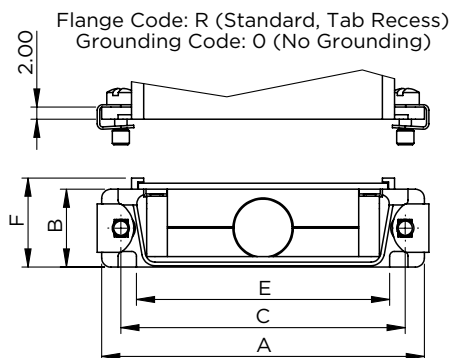
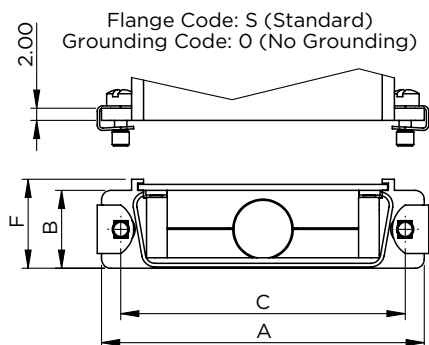
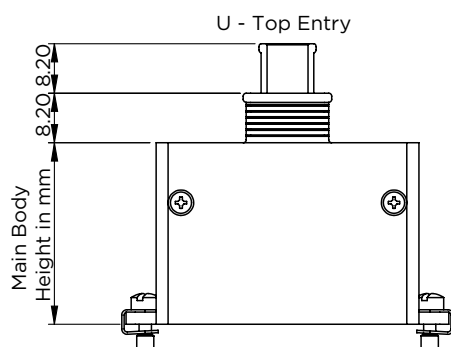


Sliding Body, Flange Mount with Tie Post

- Overall screen termination by band
- Wide range of circular or elliptical entry ports to suit cable requirements
- Provides strain relief by tying cables in place using post
- Bands ordered separately from TE – see page 49

SPECIFICATION

- **Mates to:** MIL-DTL-24308
- **Screen Termination:** Overall screen
- **Strain Relief and Cable Sealing:** Heat shrink boot option
- **Additional Components Required:** Boot, band



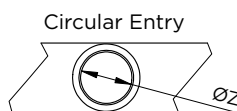
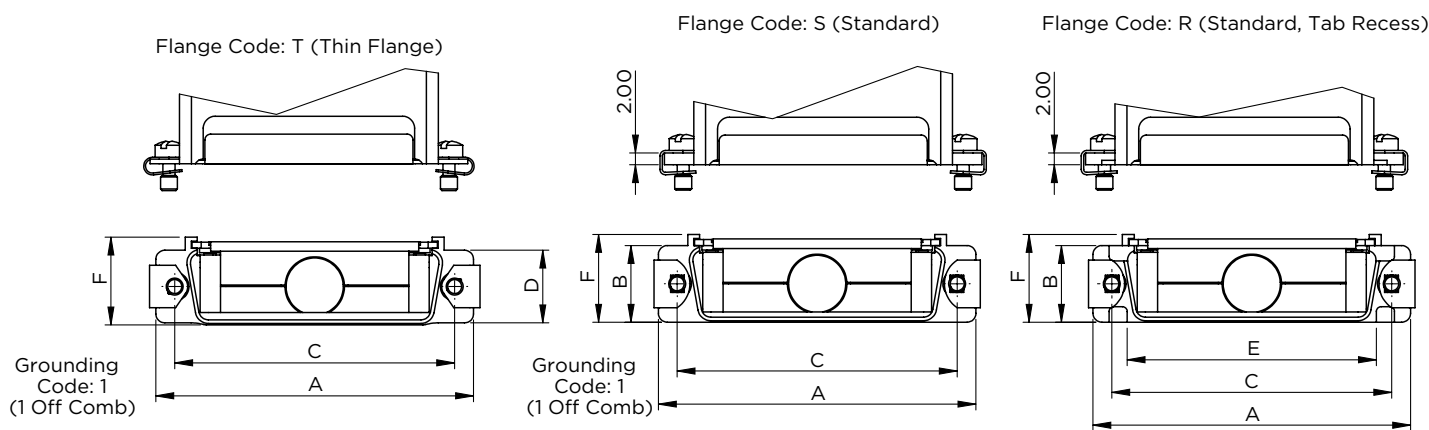
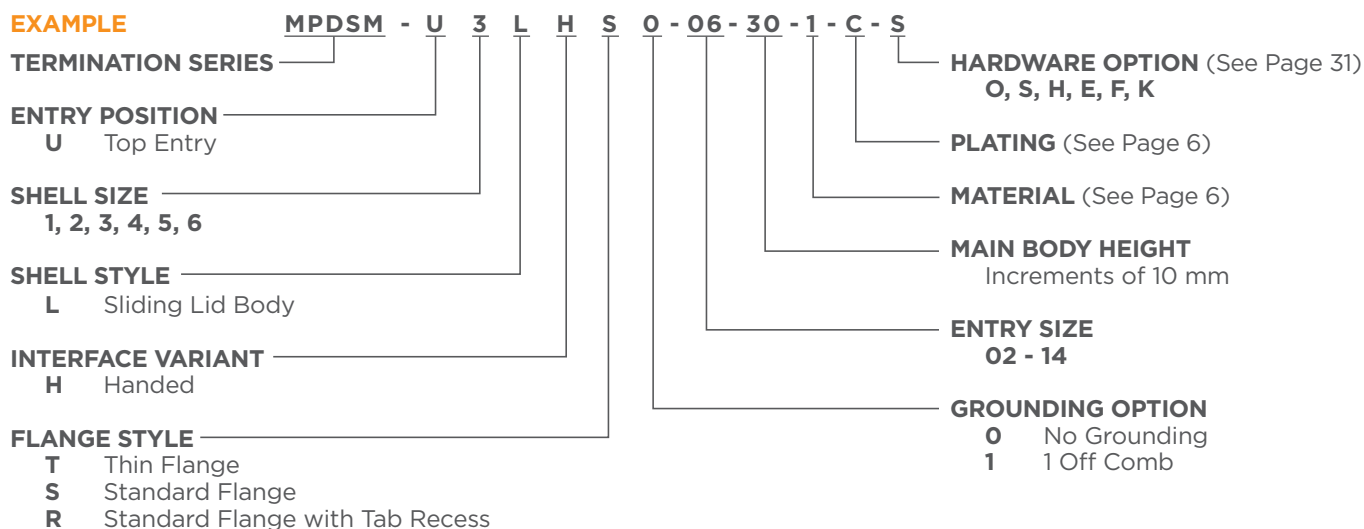
Shell Size	A	B	C	D	E	F
1	31.14	12.93	25.00	12.20	19.86	14.73
2	39.47	12.93	33.33	12.20	28.09	14.73
3	53.37	12.93	47.04	12.20	41.86	14.73
4	69.71	12.93	63.50	12.20	58.32	14.73
5	67.26	15.75	61.12	15.20	55.98	17.55
6	69.65	17.35	63.50	16.50	58.57	19.15

Measurements shown in mm

MPDSM Series – Micro Band Termination with Tie Post

For MIL-DTL-24308 Connectors

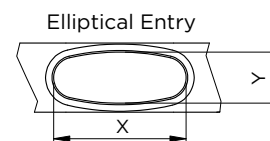
EXAMPLE



ENTRY SIZE TABLE 1 - CIRCULAR ENTRY ONLY

Shell Size	U - Top Entry	
	Circular	Elliptical
1	02 - 06	NA
2	02 - 06	07 - 08
3	02 - 06	07 - 11
4	02 - 06	07 - 14
5	02 - 08	09 - 13
6	02 - 09	10 - 14

Entry Size (Circular)	Dia Z Min
02	3.18
03	4.77
04	6.35
05	7.93
06	9.53
07	11.11
08	12.70
09	14.29



ENTRY SIZE TABLE 2 - ELLIPTICAL ENTRY ONLY

Entry Size (Elliptical)	X Min	Y Min
07	13.0	9.5
08	16.5	9.5
09	20.5	9.5
10	24.7	9.5
11	29.4	9.5
12	34.6	9.5
13	40.2	9.5
14	46.2	9.5

Grounding Combs Shown for Illustrative Purposes Only – Combs are Sold Separately
Measurements shown in mm

MPDSM Series – Micro Band Termination with Tie Post

For MIL-DTL-24308 Connectors

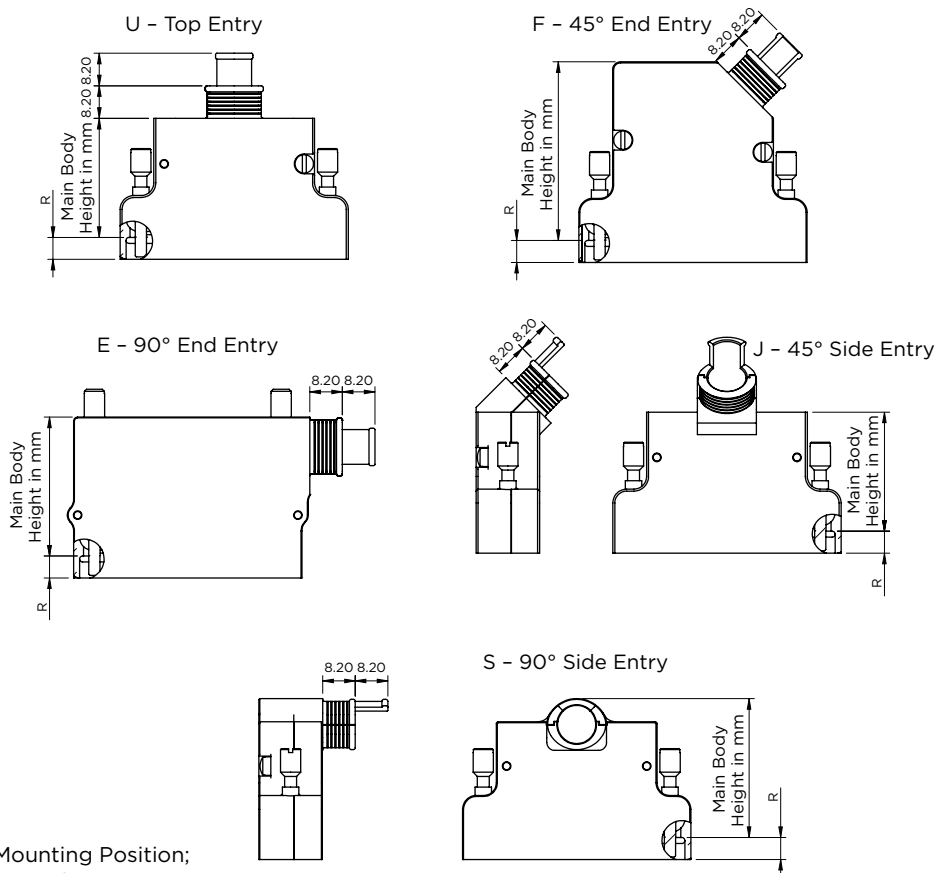


Split Body, Shrouded with Tie Post

- Overall screen termination by band
- Easy installation over already terminated wires
- Provides strain relief by tying cables in place using post
- Bands ordered separately from TE – see page 49

SPECIFICATION

- **Mates to:** MIL-DTL-24308
- **Screen Termination:** Overall screen
- **Strain Relief and Cable Sealing:** Heat shrink boot option
- **Additional Components Required:** Boot, band



Shell Size	U - Top Entry Main Body Height in mm	F - 45° End Entry Main Body Height in mm	E - 90° End Entry Main Body Height in mm	J - 45° Side Entry Main Body Height in mm	S - 90° Side Entry Main Body Height in mm
1	30.0	40.0	Main Body Height for Entry Position E is Determined by Entry Size - Please See Page 30	30.0	35.0
2	30.0	40.0		30.0	35.0
3	30.0	45.0		30.0	35.0
4	30.0	50.0		30.0	35.0
5	30.0	50.0		30.0	35.0
6	30.0	50.0		30.0	35.0

Measurements shown in mm

MPDSM Series – Micro Band Termination with Tie Post

For MIL-DTL-24308 Connectors

EXAMPLE

MPDSM - U 3 T S 3 0 - 06 - 30 - 1 - C - S

TERMINATION SERIES — **U 3 T S 3**

ENTRY POSITION (See Page 28) — **U**
U Top Entry
F End 45° Entry
E End 90° Entry
J Side 45° Entry
S Side 90° Entry

SHELL SIZE — **3**
1, 2, 3, 4, 5, 6

SHELL STYLE — **T**
T Two Piece Body

INTERFACE VARIANT — **S**
S Shrouded

MOUNTING CODE — **3**
1, 2, 3, 4, 5, 6, 7

0 - 06 - 30 - 1 - C - S

HARDWARE OPTION (See Page 31)
O, S, H, E, F, M

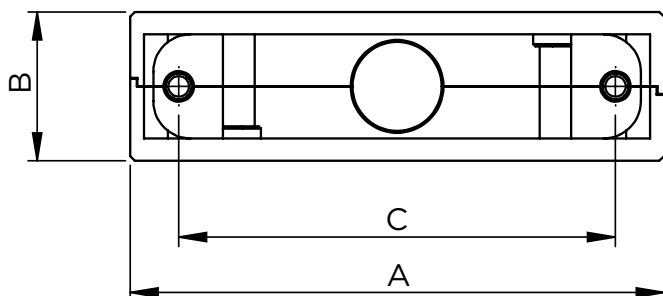
PLATING (See Page 6)

MATERIAL (See Page 6)

MAIN BODY HEIGHT (See Page 28)
 Not a Variable Option

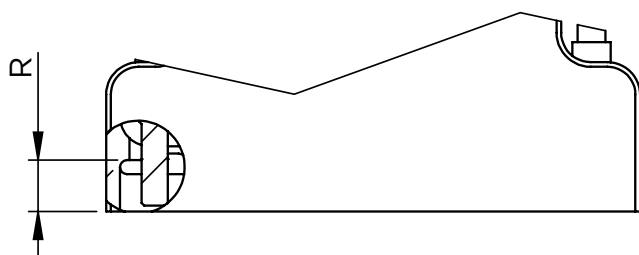
ENTRY SIZE
02 - 17

GROUNDING OPTION
0 No Grounding



Shell Size	A	B	C
1	35.0	16.0	25.00
2	43.3	16.0	33.33
3	57.5	16.0	47.04
4	73.3	16.0	63.50
5	70.9	19.0	61.12
6	73.3	20.5	63.50

Mounting Code



Mounting Code	Receptacle Mounting Position	Panel Thickness	R
1	Front Mount	—	7.74
2	Rear Mount	0.79	6.32
3	Rear Mount	1.57	5.53
4	Rear Mount	2.36	4.74
5	Rear Mount	3.18	3.93
6	Rear Mount	3.97	3.14
7	Rear Mount	4.77	2.34

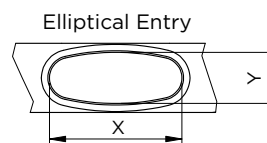
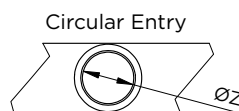
Measurements shown in mm

MPDSM Series – Micro Band Termination with Tie Post

For MIL-DTL-24308 Connectors

AVAILABLE ENTRY SIZES

Shell Size	U – Top Entry		F – 45° End Entry		E – 90° End Entry		J – 45° Side Entry		S – 90° Side Entry	
	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical
1	02 - 08	NA	02 - 08	NA	02 - 08	09 - 10	02 - 04	NA	02 - 04	NA
2	02 - 08	09	02 - 08	NA	02 - 08	09 - 10	02 - 08	NA	02 - 08	NA
3	02 - 08	09 - 12	02 - 08	09	02 - 08	09 - 10	02 - 08	09 - 10	02 - 08	09 - 10
4	02 - 08	09 - 14	02 - 08	09 - 11	02 - 08	09 - 10	02 - 08	09 - 13	02 - 08	09 - 13
5	02 - 09	10 - 14	02 - 09	10 - 11	02 - 09	10	02 - 09	10 - 13	02 - 09	10 - 13
6	02 - 10	11 - 17	02 - 10	11	02 - 10	—	02 - 10	11 - 13	02 - 10	11 - 13



ENTRY SIZE TABLE 1 – CIRCULAR ENTRY ONLY

Entry Size (Circular)	Dia Z Min	U – Top Entry Main Body Height in mm	F – 45° End Entry Main Body Height in mm	E – 90° End Entry Main Body Height in mm	J – 45° Side Entry Main Body Height in mm	S – 90° Side Entry Main Body Height in mm
02	3.18	Main Body Height for Entry Position U is Determined by Shell Size – Please See Page 28	Main Body Height for Entry Position F is Determined by Shell Size – Please See Page 28	35.0	Main Body Height for Entry Position J is Determined by Shell Size – Please See Page 28	Main Body Height for Entry Position S is Determined by Shell Size – Please See Page 28
03	4.77			35.0		
04	6.35			35.0		
05	7.93			35.0		
06	9.53			35.0		
07	11.11			35.0		
08	12.70			35.0		
09	14.29			35.0		
10	15.88			35.0		

ENTRY SIZE TABLE 2 – ELLIPTICAL ENTRY ONLY

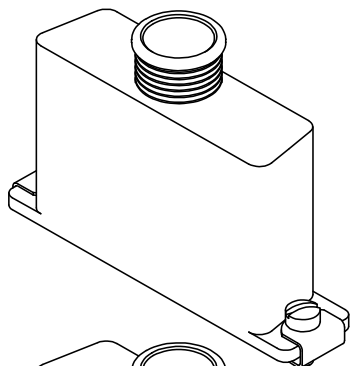
Entry Size (Elliptical)	X Min	Y Min	U – Top Entry Main Body Height in mm	F – 45° End Entry Main Body Height in mm	E – 90° End Entry Main Body Height in mm	J – 45° Side Entry Main Body Height in mm	S – 90° Side Entry Main Body Height in mm
09	20.5	9.5	Main Body Height for Entry Position U is Determined by Shell Size – See Page 28	Main Body Height for Entry Position F is Determined by Shell Size – See Page 28	45.0	Main Body Height for Entry Position J is Determined by Shell Size – Please See Page 28	Main Body Height for Entry Position S is Determined by Shell Size – Please See Page 28
10	24.7	9.5			45.0		
11	29.4	9.5			NA		
12	34.6	9.5			NA		
13	40.2	9.5			NA		
14	46.2	9.5			NA		
15	52.7	9.5			NA		
16	50.0	12.0			NA		
17	49.2	13.9			NA		

Measurements shown in mm

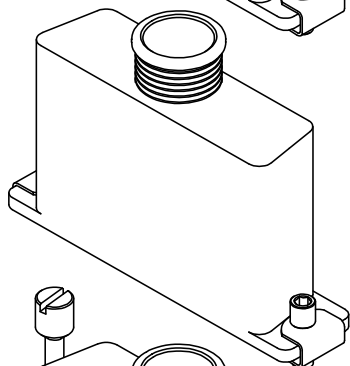
Accessories

For MIL-DTL-24308 Connectors

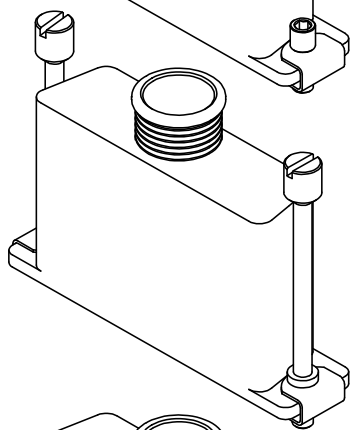
Hardware Options



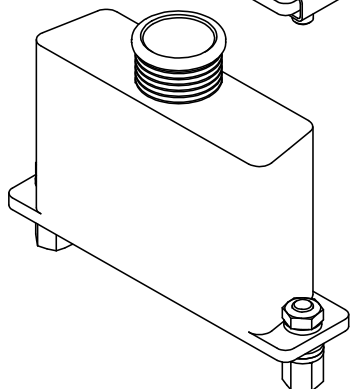
Hardware Option Code: S
Slotted Head Jackscrew Retained with 'Over-End' Clip
Material: Stainless Steel, Passivate Finish
Not Recommended for Use with Entry Positions F and E



Hardware Option Code: H
Hex Drive Socket Head Jackscrew Retained with 'Over-End' Clip
Material: Stainless Steel, Passivate Finish



Hardware Option Code: E
Extended Slotted Head Jackscrew Retained with 'Over-End' Clip
Material: Stainless Steel, Passivate Finish
Not Available for Entry Positions F and E



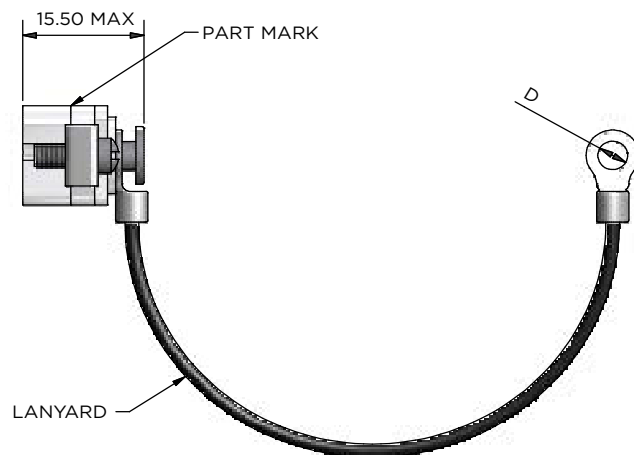
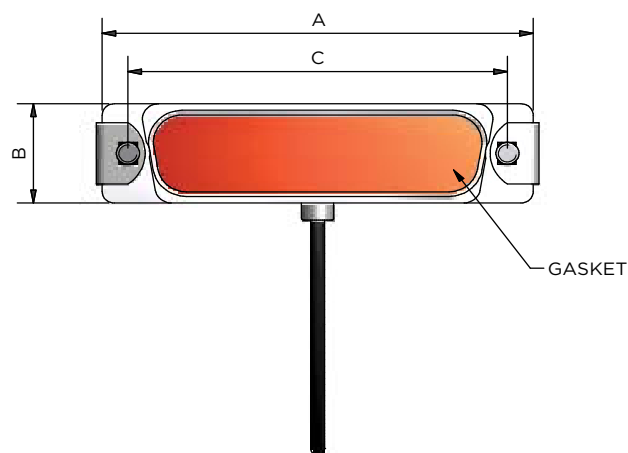
Hardware Option Code: F
Female Thread Jackpost
Material: Stainless Steel, Passivate Finish

Hardware Option Code: 0 (Zero)
Backshell Supplied without Hardware

Accessories

For MIL-DTL-24308 Connectors

DPC Series: Protection Cap Assembly



EXAMPLE

BASIC SERIES — **DPC** **3** **M** **1** **C** **BK** **4** **02** **NG**

SHELL SIZE —

HARDWARE OPTION —

M Jackscrews
F Jackposts

MATERIAL (See Page 6) —

PLATING (See Page 6) —

LANYARD TYPE (See Table 3) —

NO GASKET (Omit if Gasket is Required)

ATTACHMENT TYPE

00 No Eyelet
01-05 Eyelet Ref. (Table 2)
CF Crimp Ferrule (Supplied Loose)

LANYARD LENGTH (In Inches)

3" 76.2 mm
4" 101.6 mm
5" 127.0 mm
6" 152.4 mm
12" 304.8 mm

TABLE 1

Shell Size	A	B	C
1	31.19	12.93	25.00
2	39.52	12.93	33.33
3	53.42	12.93	47.04
4	69.76	12.93	63.50
5	67.31	15.75	61.12
6	69.70	17.35	63.50

TABLE 2

Eyelet Ref.	D
00	N/A
01	3.2
02	3.7
03	4.3
04	5.3
05	6.4

TABLE 3

Code	Lanyard Type
WR	Nylon Covered (Clear) Stainless Steel Wire Rope
TC	Teflon Covered (Clear) Stainless Steel Wire Rope
WG	Teflon Covered (Olive Drab) Stainless Steel Wire Rope
WB	Teflon Covered (Black) Stainless Steel Wire Rope
WRB	PVC Covered (Black) Stainless Steel Wire Rope
LC	Link Chain
BK	Black Cord
VGB	1.5 mm Black Polyester Cord Equivalent to DIN83330-E1.5
B	Bead Chain
R	Olive Drab Polyester Cord
NB	Olive Drab Nylon Cord
NK	Black Nylon Cord

Measurements shown in mm

MBMMD Series – Micro Band Termination

For MIL-DTL-83513 Connectors

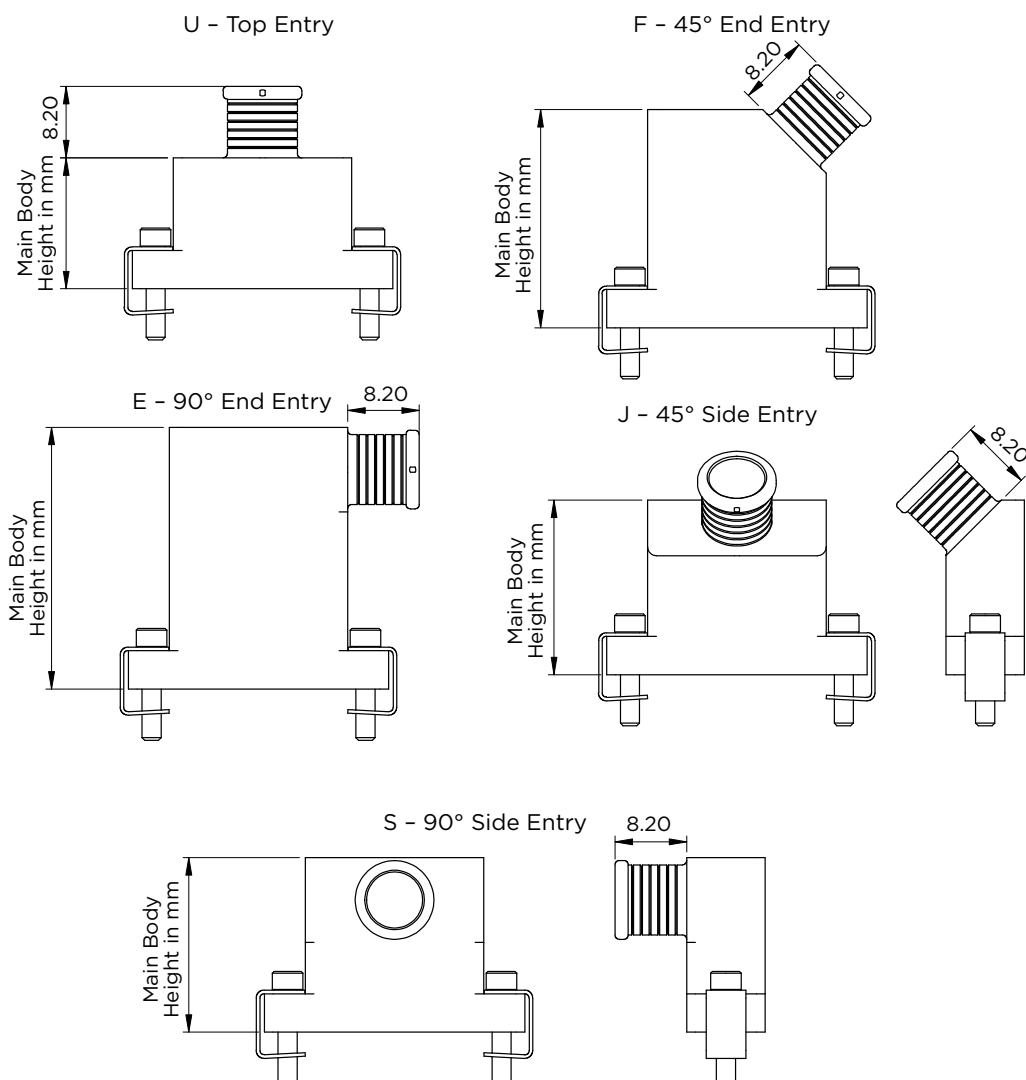


Single Body, Flange Mount

- Overall screen termination by band
- Wide range of circular or elliptical entry ports to suit cable requirements
- With or without heat shrink boot groove
- Bands ordered separately from TE – see page 49

SPECIFICATION

- **Mates to:** MIL-DTL-83513
- **Screen Termination:** Overall screen
- **Strain Relief and Cable Sealing:** Heat shrink boot option
- **Additional Components Required:** Boot, band



MBMMD Series – Micro Band Termination

For MIL-DTL-83513 Connectors

EXAMPLE

MBMMD - U D S M S O - 05 - 30 - 1 - C - S

TERMINATION SERIES

HARDWARE OPTION (See Page 47)
O, S, H, E, F

ENTRY POSITION (See Page 33)

U Top Entry
F End 45° Entry
E End 90° Entry
J Side 45° Entry
S Side 90° Entry

PLATING (See Page 6)

MATERIAL (See Page 6)

MAIN BODY HEIGHT
Increments of 5 mmENTRY SIZE
02 - 11GROUNDING OPTION
O No Grounding

SHELL SIZE

A, B, C, D, E, F, G, H

SHELL STYLE

S Single Piece Body

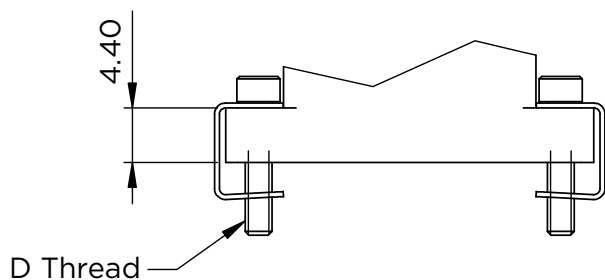
INTERFACE VARIANT

M Mirrored

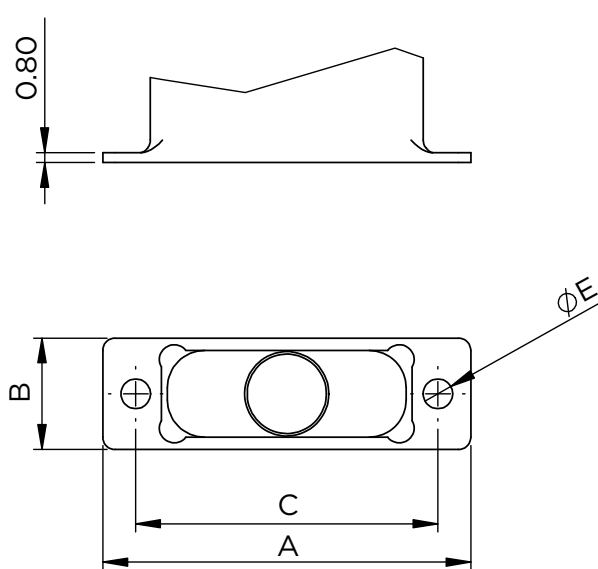
FLANGE STYLE

T Thin Flange
S Standard Flange

Flange Code: S (Standard)



Flange Code: T (Thin Flange)*



Shell Size	Connector Ref.	A	B	C	D	E
A	09	19.68	9.00	14.35	2-56 UNC - 2A	2.40
B	15	23.50	9.00	18.16		
3	21	27.30	9.00	21.97		
D	25	29.84	9.00	24.51		
E	31	33.66	9.00	28.32		
F	37	37.46	9.00	32.13		
G	51	36.20	10.00	30.86	4-40 UNC - 2A	3.60
H	100	54.86	11.00	45.72		

* - Thin flange option is not supported with TE supplied hardware; all part descriptions including code 'T' for thin flange must use code 'O' for hardware. Thin flange backshells are designed to accommodate a customer-sourced jack screw of maximum head diameter of: Shell sizes A to G: 3.50 mm (.138") Shell size H: 4.60 mm (.181") Measurements shown in mm

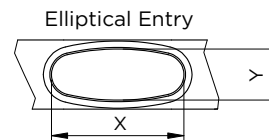
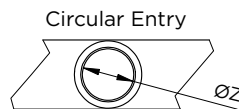
MBMMD Series – Micro Band Termination

For MIL-DTL-83513 Connectors

AVAILABLE ENTRY SIZES

Shell Size	Connector Ref.	U – Top Entry		F – 45° End Entry		E – 90° End Entry		J – 45° Side Entry		S – 90° Side Entry	
		Circular	Elliptical	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical
A	09	02 - 04	NA	02 - 04	NA	02 - 04	NA	02 - 04	NA	02 - 04	NA
B	15	02 - 04	05	02 - 04	05	02 - 04	05	02 - 04	05	02 - 04	05
C	21	02 - 04	05 - 06	02 - 04	05 - 06	02 - 04	05 - 06	02 - 04	05 - 06	02 - 04	05 - 06
D	25	02 - 04	05 - 06	02 - 04	05 - 06	02 - 04	05 - 06	02 - 04	05 - 06	02 - 04	05 - 06
E	31	02 - 04	05 - 07	02 - 04	05 - 07	02 - 04	05 - 07	02 - 04	05 - 07	02 - 04	05 - 07
F	37	02 - 04	05 - 08	02 - 04	05 - 08	02 - 04	05 - 08	02 - 04	05 - 08	02 - 04	05 - 08
G	51	02 - 05	06 - 08	02 - 05	06 - 08	02 - 05	06 - 08	02 - 05	06 - 08	02 - 05	06 - 08
H	100	02 - 05	06 - 11	02 - 05	06 - 11	02 - 05	06 - 11	02 - 05	06 - 11	02 - 05	06 - 11

* Maximum entry size not supported within the 60.0 mm maximum main body height when grounding combs are deployed; maximum entry size is limited to 17 (F entry position) and 12 (E entry position)



ENTRY SIZE TABLE 1 – CIRCULAR ENTRY ONLY

Entry Size (Circular)	Dia Z Min	U – Top Entry Minimum Main Body Height in mm	F – 45° End Entry Minimum Main Body Height in mm		E – 90° End Entry Minimum Main Body Height in mm		J – 45° Side Entry Minimum Main Body Height in mm		S – 90° Side Entry Minimum Main Body Height in mm	
			Standard Flange	Thin Flange	Standard Flange	Thin Flange	Standard Flange	Thin Flange	Standard Flange	Thin Flange
02	3.18	15.0	25.0	20.0	25.0	20.0	20.0	20.0	20.0	20.0
03	4.77	15.0	25.0	20.0	30.0	20.0	20.0	20.0	20.0	20.0
04	6.35	15.0	25.0	20.0	30.0	25.0	20.0	20.0	20.0	20.0
05	7.93	15.0	30.0	20.0	30.0	25.0	20.0	20.0	20.0	20.0

ENTRY SIZE TABLE 2 – ELLIPTICAL ENTRY ONLY

Entry Size (Elliptical)	X Min	Y Min	U – Top Entry Minimum Main Body Height in mm	F – 45° End Entry Minimum Main Body Height in mm		E – 90° End Entry Minimum Main Body Height in mm		J – 45° Side Entry Minimum Main Body Height in mm		S – 90° Side Entry Minimum Main Body Height in mm	
				Standard Flange	Thin Flange	Standard Flange	Thin Flange	Standard Flange	Thin Flange	Standard Flange	Thin Flange
05	10.70	6.0	15.0	30.0	25.0	35.0	25.0	20.0	20.0	20.0	20.0
06	15.00	6.0	15.0	30.0	25.0	40.0	30.0	20.0	20.0	20.0	20.0
07	20.00	6.0	15.0	35.0	30.0	45.0	35.0	20.0	20.0	20.0	20.0
08	25.00	6.0	15.0	40.0	35.0	50.0	40.0	20.0	20.0	20.0	20.0
08*	23.50	6.5	15.0	40.0	30.0	50.0	40.0	20.0	20.0	20.0	20.0
09	25.00	8.0	15.0	40.0	30.0	50.0	40.0	20.0	20.0	20.0	20.0
10	31.00	8.0	15.0	45.0	35.0	55.0	45.0	20.0	20.0	20.0	20.0
11	36.00	8.0	15.0	45.0	45.0	60.0	50.0	20.0	20.0	20.0	20.0

* Entry size dimensions apply to shell sizes G and H only

Measurements shown in mm

MBMMD Series – Micro Band Termination

For MIL-DTL-83513 Connectors



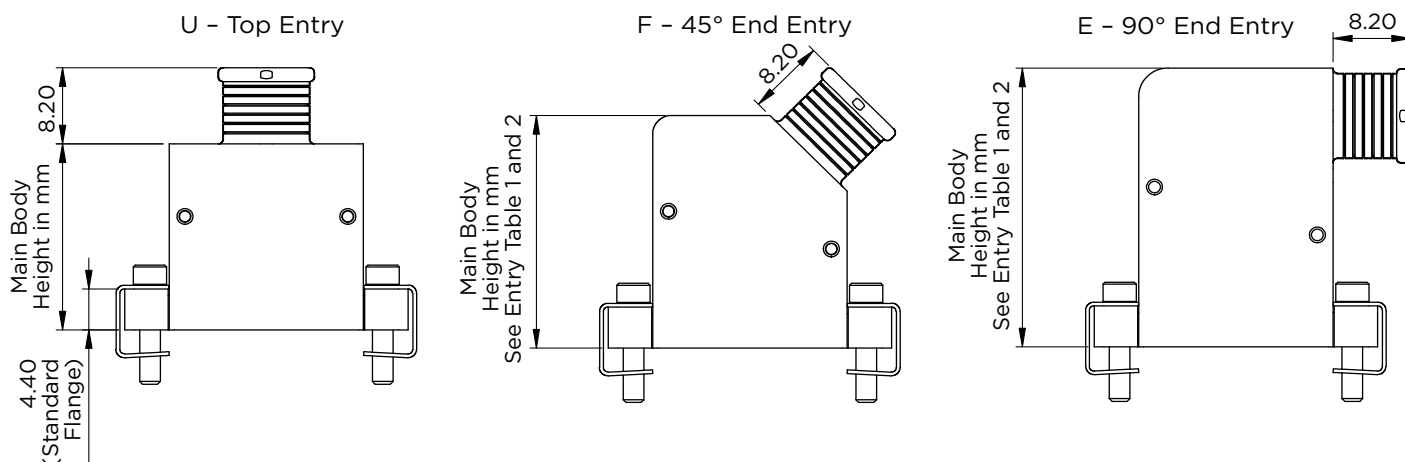
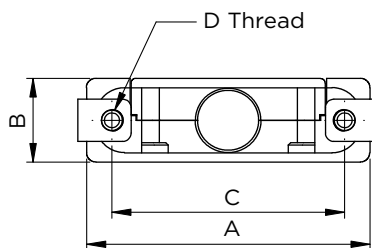
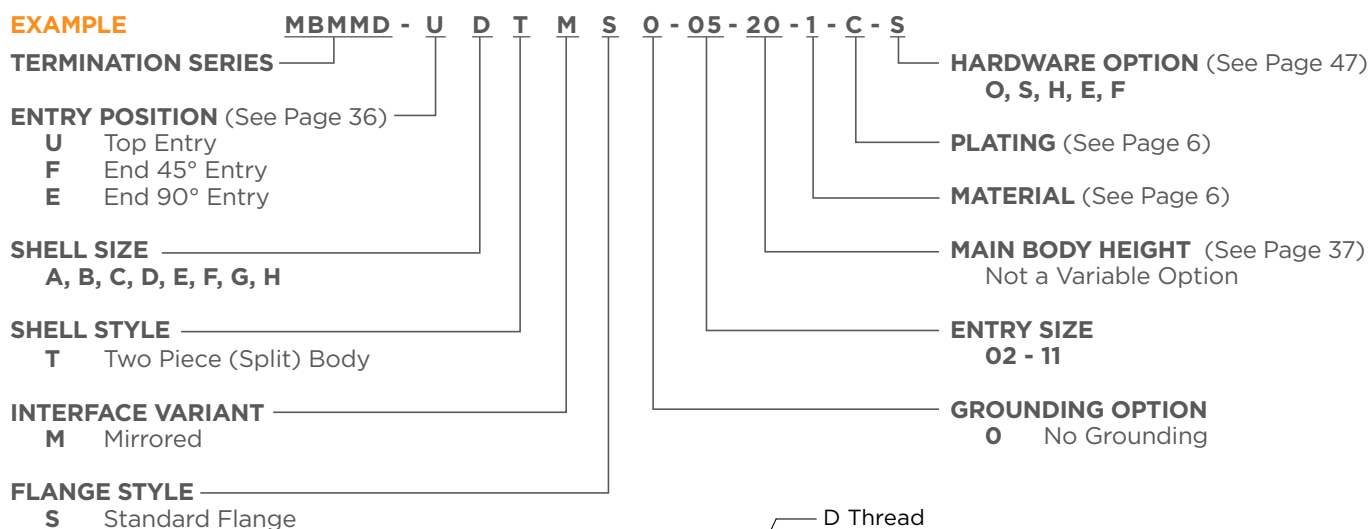
Split Body, Flange Mount

- Overall screen termination by band
- Wide range of circular or elliptical entry ports to suit cable requirements
- Easy installation over already terminated wires
- Bands ordered separately from TE – see page 49

SPECIFICATION

- **Mates to:** MIL-DTL-83513
- **Screen Termination:** Overall screen
- **Strain Relief and Cable Sealing:** Heat shrink boot option
- **Additional Components Required:** Boot, band

EXAMPLE



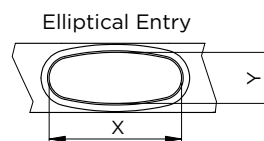
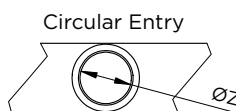
MBMMD Series – Micro Band Termination

For MIL-DTL-83513 Connectors

Shell Size	Connector Ref.	A	B	C	D Thread	E
A	09	19.68	9.00	14.35	2-56 UNC - 2A	2.40
B	15	23.50	9.00	18.16		
C	21	27.30	9.00	21.97		
D	25	29.84	9.00	24.51		
E	31	33.66	9.00	28.32		
F	37	37.46	9.00	32.13		
G	51	36.20	10.00	30.86	4-40 UNC - 2A	3.60
H	100	54.86	11.00	45.72		

AVAILABLE ENTRY SIZES

Shell Size	Connector Ref.	U - Top Entry		F - 45° End Entry		E - 90° End Entry	
		Circular	Elliptical	Circular	Elliptical	Circular	Elliptical
A	09	02 - 04	NA	02 - 04	NA	02 - 04	05
B	15	02 - 04	05	02 - 04	05	02 - 04	05 - 06
C	21	02 - 04	05 - 06	02 - 04	05 - 06	02 - 04	05 - 07
D	25	02 - 04	05 - 06	02 - 04	05 - 06	02 - 04	05 - 08
E	31	02 - 04	05 - 07	02 - 04	05 - 07	02 - 04	05 - 08
F	37	02 - 04	05 - 08	02 - 04	05 - 08	02 - 04	05 - 08
G	51	02 - 05	06 - 08	02 - 05	06 - 08	02 - 05	06 - 08
H	100	02 - 05	06 - 11	02 - 05	06 - 11	02 - 05	06 - 11



ENTRY SIZE TABLE 1 - CIRCULAR ENTRY ONLY

Entry Size (Circular)	Dia Z Min	U - Top Entry Minimum Main Body Height in mm	F - 45° End Entry Minimum Main Body Height in mm	E - 90° End Entry Minimum Main Body Height in mm
			Standard Flange	Standard Flange
02	3.18	20.0	25.0	25.0
03	4.77	20.0	25.0	30.0
04	6.35	20.0	25.0	30.0
05	7.93	20.0	30.0	30.0

ENTRY SIZE TABLE 2 - ELLIPTICAL ENTRY ONLY

Entry Size (Elliptical)	X Min	Y Min	U - Top Entry Minimum Main Body Height in mm	F - 45° End Entry Minimum Main Body Height in mm	E - 90° End Entry Minimum Main Body Height in mm
				Standard Flange	Standard Flange
05	10.70	6.0	15.0	30.0	35.0
06	15.00	6.0	15.0	30.0	40.0
07	20.00	6.0	15.0	35.0	45.0
08	25.00	6.0	15.0	40.0	50.0
08*	23.50	6.5	15.0	40.0	50.0
09	25.00	8.0	15.0	40.0	50.0
10	31.00	8.0	15.0	45.0	55.0
11	36.00	8.0	15.0	45.0	60.0

* Entry size dimensions apply to shell sizes G and H only

Measurements shown in mm

MBMMD Series – Micro Band Termination

For MIL-DTL-83513 Connectors

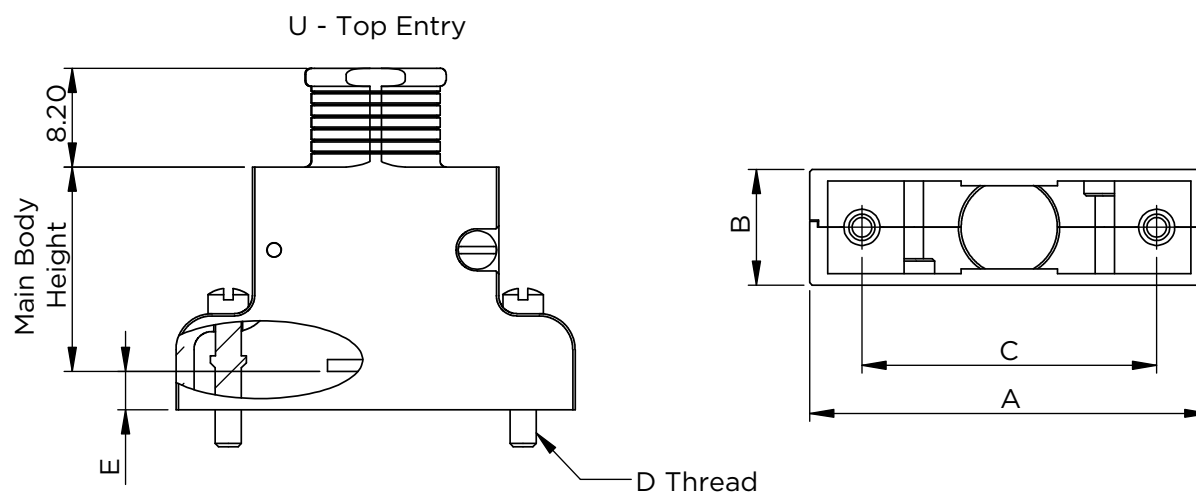


Split Body, Shrouded

- Overall screen termination by band
- Easy installation over already terminated wires
- Flexible design, suitable for retro fit and prototyping
- Bands ordered separately from TE – see page 49

SPECIFICATION

- **Mates to:** MIL-DTL-24308
- **Screen Termination:** Overall screen
- **Strain Relief and Cable Sealing:** Heat shrink boot option
- **Additional Components Required:** Boot, band



EXAMPLE

MBMMD - U D T S O O - 05 - 17 - 1 - C - S	
TERMINATION SERIES	HARDWARE OPTION (See Page 47) O, S, H, E, F, K
ENTRY POSITION U Top Entry	PLATING (See Page 6)
SHELL SIZE A, B, C, D, E, F, G, H	MATERIAL (See Page 6)
SHELL STYLE T Two Piece (Split) Body	MAIN BODY HEIGHT (See Page 39) Not a Variable Option
INTERFACE VARIANT S Shrouded	ENTRY SIZE 02 - 11
MOUNTING CODE 0 - 1	GROUNDING OPTION 0 No Grounding

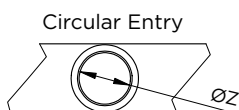
MBMMD Series – Micro Band Termination

For MIL-DTL-83513 Connectors

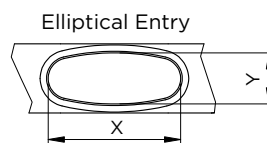
Shell Size	Connector Ref.	A	B	C	D Thread	Main Body Height
A	09	23.09	9.60	14.35	2-56 UNC - 2A	17.0
B	15	26.90	9.60	18.16		17.0
C	21	30.71	9.60	21.97		17.0
D	25	33.25	9.60	24.51		17.0
E	31	37.06	9.60	28.32		17.0
F	37	40.87	9.60	32.13		20.0
G	51	39.60	9.60	30.86	4-40 UNC - 2A	22.0
H	100	58.27	12.00	45.72		22.0

Mounting Code	Receptacle Mounting Position	Panel Thickness	E
0	Rear Mount	3.50	3.20
1	Rear Mount	1.60	5.10

Shell Size	Connector Ref.	U - Top Entry	
		Circular	Elliptical
A	09	02 - 04	NA
B	15	02 - 05	NA
C	21	02 - 05	06
D	25	02 - 05	06
E	31	02 - 05	06 - 07
F	37	02 - 05	06 - 08
G	51	02 - 05	06 - 08
H	100	02 - 05	06 - 11

ENTRY SIZE TABLE 1 -
CIRCULAR ENTRY ONLY

Entry Size (Circular)	Dia Z Min
02	3.18
03	4.77
04	6.35
05	7.93

ENTRY SIZE TABLE 2 -
ELLIPTICAL ENTRY ONLY

Entry Size (Elliptical)	X Min	Y Min
06	15.00	6.00
07	20.00	6.00
08	25.00	6.00
08*	23.50	6.50
09	25.00	8.00
10	31.00	8.00
11	36.00	8.00

* Entry size dimensions apply to shell sizes G and H only

Measurements shown in mm

MPMMD Series – Micro Band Termination with Tie Post

For MIL-DTL-83513 Connectors

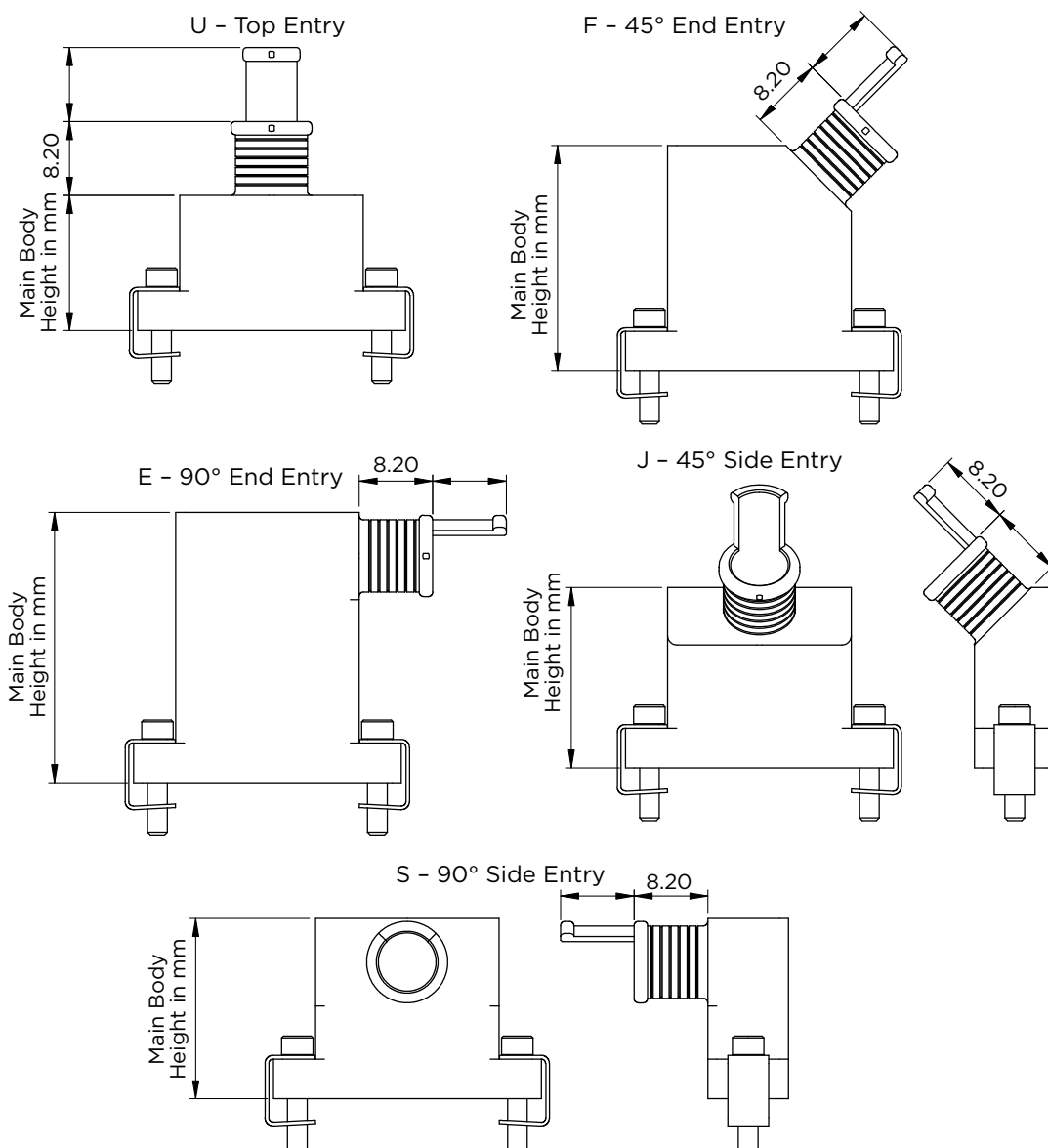


Single Body, Flange Mount with Tie Post

- Overall screen termination by band
- Wide range of circular or elliptical entry ports to suit cable requirements
- With or without heat shrink boot groove
- Bands ordered separately from TE – see page 49

SPECIFICATION

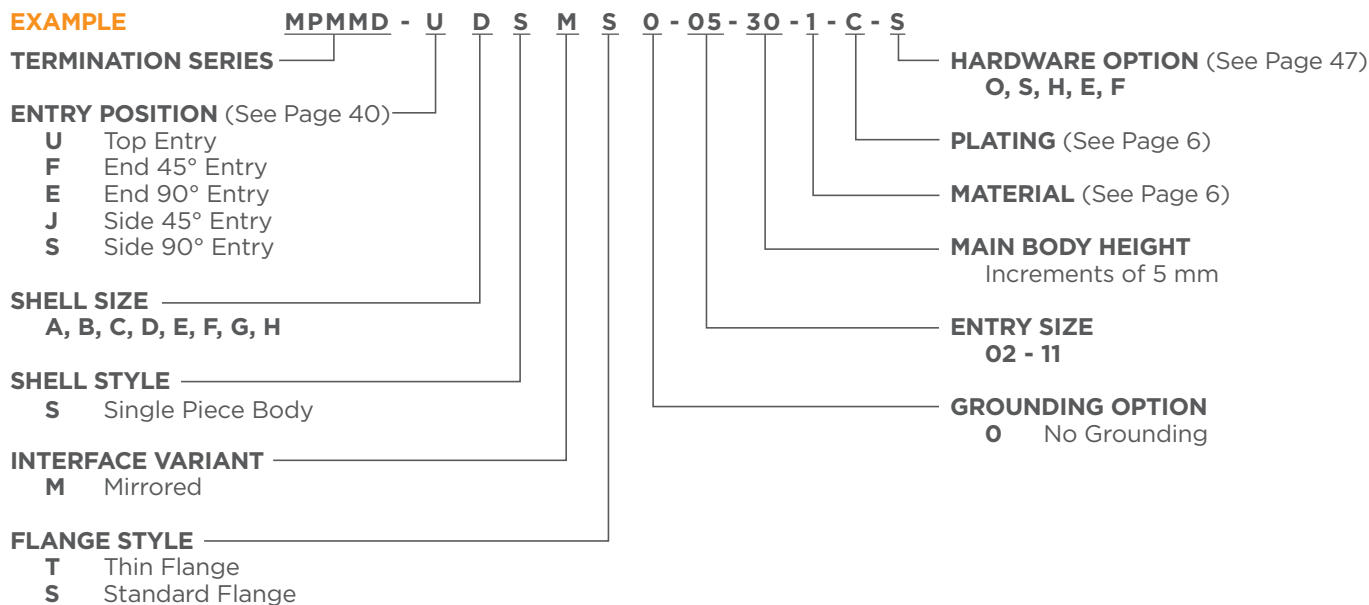
- **Mates to:** MIL-DTL-83513
- **Screen Termination:** Overall screen
- **Strain Relief and Cable Sealing:** Heat shrink boot option
- **Additional Components Required:** Boot, band



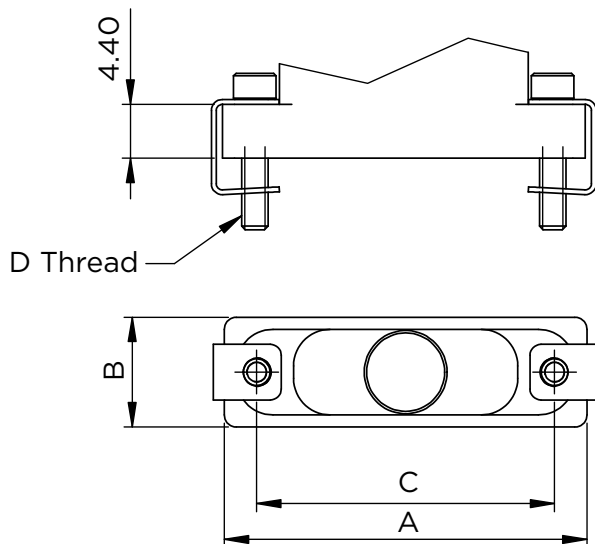
MPMMD Series – Micro Band Termination with Tie Post

For MIL-DTL-83513 Connectors

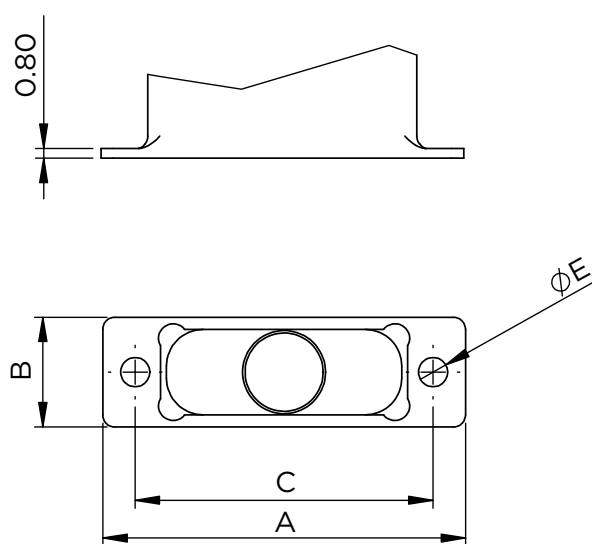
EXAMPLE



Flange Code: S (Standard)



Flange Code: T (Thin Flange)*



Shell Size	Connector Ref.	A	B	C	D	E
A	09	19.68	9.00	14.35	2-56 UNC - 2A	2.40
B	15	23.50	9.00	18.16		
3	21	27.30	9.00	21.97		
D	25	29.84	9.00	24.51		
E	31	33.66	9.00	28.32		
F	37	37.46	9.00	32.13		
G	51	36.20	10.00	30.86	4-40 UNC - 2A	3.60
H	100	54.86	11.00	45.72		

* - Thin flange option is not supported with TE supplied hardware; all part descriptions including code 'T' for thin flange must use code 'O' for hardware. Thin flange backshells are designed to accommodate a customer-sourced jack screw of maximum head diameter of: Shell sizes A to G: 3.50 mm (.138") Shell size H: 4.60 mm (.181") Measurements shown in mm

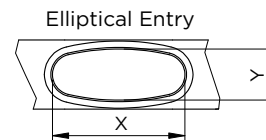
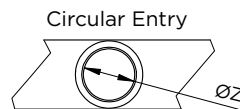
MPMMD Series – Micro Band Termination with Tie Post

For MIL-DTL-83513 Connectors

AVAILABLE ENTRY SIZES

Shell Size	Connector Ref.	U – Top Entry		F – 45° End Entry		E – 90° End Entry		J – 45° Side Entry		S – 90° Side Entry	
		Circular	Elliptical	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical	Circular	Elliptical
A	09	02 - 04	NA	02 - 04	NA	02 - 04	NA	02 - 04	NA	02 - 04	NA
B	15	02 - 04	05	02 - 04	05	02 - 04	05	02 - 04	05	02 - 04	05
C	21	02 - 04	05 - 06	02 - 04	05 - 06	02 - 04	05 - 06	02 - 04	05 - 06	02 - 04	05 - 06
D	25	02 - 04	05 - 06	02 - 04	05 - 06	02 - 04	05 - 06	02 - 04	05 - 06	02 - 04	05 - 06
E	31	02 - 04	05 - 07	02 - 04	05 - 07	02 - 04	05 - 07	02 - 04	05 - 07	02 - 04	05 - 07
F	37	02 - 04	05 - 08	02 - 04	05 - 08	02 - 04	05 - 08	02 - 04	05 - 08	02 - 04	05 - 08
G	51	02 - 05	06 - 08	02 - 05	06 - 08	02 - 05	06 - 08	02 - 05	06 - 08	02 - 05	06 - 08
H	100	02 - 05	06 - 11	02 - 05	06 - 11	02 - 05	06 - 11	02 - 05	06 - 11	02 - 05	06 - 11

* Maximum entry size not supported within the 60.0 mm maximum main body height when grounding combs are deployed; maximum entry size is limited to 17 (F entry position) and 12 (E entry position)



ENTRY SIZE TABLE 1 – CIRCULAR ENTRY ONLY

Entry Size (Circular)	Dia Z Min	U – Top Entry Minimum Main Body Height in mm	F – 45° End Entry Minimum Main Body Height in mm		E – 90° End Entry Minimum Main Body Height in mm		J – 45° Side Entry Minimum Main Body Height in mm		S – 90° Side Entry Minimum Main Body Height in mm	
			Standard Flange	Thin Flange	Standard Flange	Thin Flange	Standard Flange	Thin Flange	Standard Flange	Thin Flange
02	3.18	15.0	25.0	20.0	25.0	20.0	20.0	20.0	20.0	20.0
03	4.77	15.0	25.0	20.0	30.0	20.0	20.0	20.0	20.0	20.0
04	6.35	15.0	25.0	20.0	30.0	25.0	20.0	20.0	20.0	20.0
05	7.93	15.0	30.0	20.0	30.0	25.0	20.0	20.0	20.0	20.0

ENTRY SIZE TABLE 2 – ELLIPTICAL ENTRY ONLY

Entry Size (Elliptical)	X Min	Y Min	U – Top Entry Minimum Main Body Height in mm	F – 45° End Entry Minimum Main Body Height in mm		E – 90° End Entry Minimum Main Body Height in mm		J – 45° Side Entry Minimum Main Body Height in mm		S – 90° Side Entry Minimum Main Body Height in mm	
				Standard Flange	Thin Flange	Standard Flange	Thin Flange	Standard Flange	Thin Flange	Standard Flange	Thin Flange
05	10.70	6.0	15.0	30.0	25.0	35.0	25.0	20.0	20.0	20.0	20.0
06	15.00	6.0	15.0	30.0	25.0	40.0	30.0	20.0	20.0	20.0	20.0
07	20.00	6.0	15.0	35.0	30.0	45.0	35.0	20.0	20.0	20.0	20.0
08	25.00	6.0	15.0	40.0	35.0	50.0	40.0	20.0	20.0	20.0	20.0
08*	23.50	6.5	15.0	40.0	30.0	50.0	40.0	20.0	20.0	20.0	20.0
09	25.00	8.0	15.0	40.0	30.0	50.0	40.0	20.0	20.0	20.0	20.0
10	31.00	8.0	15.0	45.0	35.0	55.0	45.0	20.0	20.0	20.0	20.0
11	36.00	8.0	15.0	45.0	45.0	60.0	50.0	20.0	20.0	20.0	20.0

* Entry size dimensions apply to shell sizes G and H only

Measurements shown in mm

MPMMD Series – Micro Band Termination with Tie Post

For MIL-DTL-83513 Connectors



Split Body, Flange Mount with Tie Post

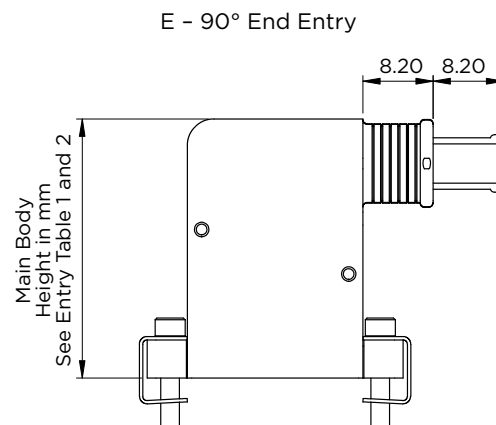
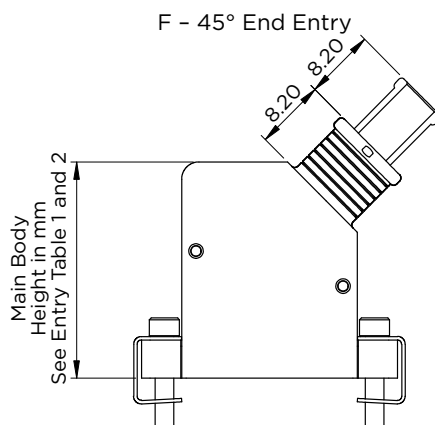
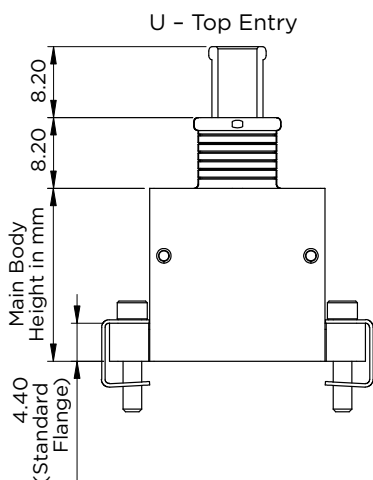
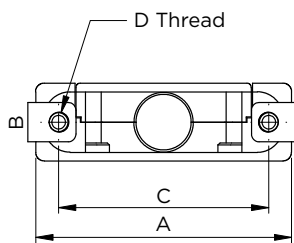
- Overall screen termination by band
- Wide range of circular or elliptical entry ports to suit cable requirements
- With or without heat shrink boot groove
- Bands ordered separately from TE – see page 49

SPECIFICATION

- **Mates to:** MIL-DTL-83513
- **Screen Termination:** Overall screen
- **Strain Relief and Cable Sealing:** Heat shrink boot option
- **Additional Components Required:** Boot, band

EXAMPLE

TERMINATION SERIES	MPMMD - U	D	T	M	S	O	05	20	1	C	S	HARDWARE OPTION (See Page 31) O, S, H, E, F
ENTRY POSITION	U Top Entry											PLATING (See Page 6)
	F End 45° Entry											MATERIAL (See Page 6)
	E End 90° Entry											MAIN BODY HEIGHT Entry Position U Increments of 5 mm Entry Position E and F Defined on page 44
SHELL SIZE												ENTRY SIZE 02 - 11
	A, B, C, D, E, F, G, H											GROUNDING OPTION 0 No Grounding
SHELL STYLE												
	T Two Piece (Split) Body											
INTERFACE VARIANT												
	M Mirrored											
FLANGE STYLE												
	S Standard Flange											



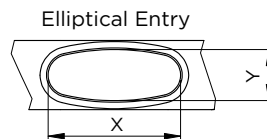
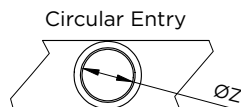
MPMMD Series – Micro Band Termination with Tie Post

For MIL-DTL-83513 Connectors

Shell Size	Connector Ref.	A	B	C	D Thread
A	09	19.68	9.00	14.35	2-56 UNC - 2A
B	15	23.50	9.00	18.16	
C	21	27.30	9.00	21.97	
D	25	29.84	9.00	24.51	
E	31	33.66	9.00	28.32	
F	37	37.46	9.00	32.13	
G	51	36.20	10.00	30.86	4-40 UNC - 2A
H	100	54.86	11.00	45.72	

AVAILABLE ENTRY SIZES

Shell Size	Connector Ref.	U - Top Entry		F - 45° End Entry		E - 90° End Entry	
		Circular	Elliptical	Circular	Elliptical	Circular	Elliptical
A	09	02 - 04	NA	02 - 04	NA	02 - 04	05
B	15	02 - 04	05	02 - 04	05	02 - 04	05 - 06
C	21	02 - 04	05 - 06	02 - 04	05 - 06	02 - 04	05 - 07
D	25	02 - 04	05 - 06	02 - 04	05 - 06	02 - 04	05 - 08
E	31	02 - 04	05 - 07	02 - 04	05 - 07	02 - 04	05 - 08
F	37	02 - 04	05 - 08	02 - 04	05 - 08	02 - 04	05 - 08
G	51	02 - 05	06 - 08	02 - 05	06 - 08	02 - 05	06 - 08
H	100	02 - 05	06 - 11	02 - 05	06 - 11	02 - 05	06 - 11



ENTRY SIZE TABLE 1 - CIRCULAR ENTRY ONLY

Entry Size (Circular)	Dia Z Min	U - Top Entry Minimum Main Body Height in mm	F - 45° End Entry Minimum Main Body Height in mm	E - 90° End Entry Minimum Main Body Height in mm
			Standard Flange	Standard Flange
02	3.18	20.0	25.0	25.0
03	4.77	20.0	25.0	30.0
04	6.35	20.0	25.0	30.0
05	7.93	20.0	30.0	30.0

ENTRY SIZE TABLE 2 - ELLIPTICAL ENTRY ONLY

Entry Size (Elliptical)	X Min	Y Min	U - Top Entry Minimum Main Body Height in mm	F - 45° End Entry Minimum Main Body Height in mm	E - 90° End Entry Minimum Main Body Height in mm
				Standard Flange	Standard Flange
05	10.70	6.0	15.0	30.0	35.0
06	15.00	6.0	15.0	30.0	40.0
07	20.00	6.0	15.0	35.0	45.0
08	25.00	6.0	15.0	40.0	50.0
08*	23.50	6.5	15.0	40.0	50.0
09	25.00	8.0	15.0	40.0	50.0
10	31.00	8.0	15.0	45.0	55.0
11	36.00	8.0	15.0	45.0	60.0

* Entry size dimensions apply to shell sizes G and H only

Measurements shown in mm

MPMMD Series – Micro Band Termination with Tie Post

For MIL-DTL-83513 Connectors

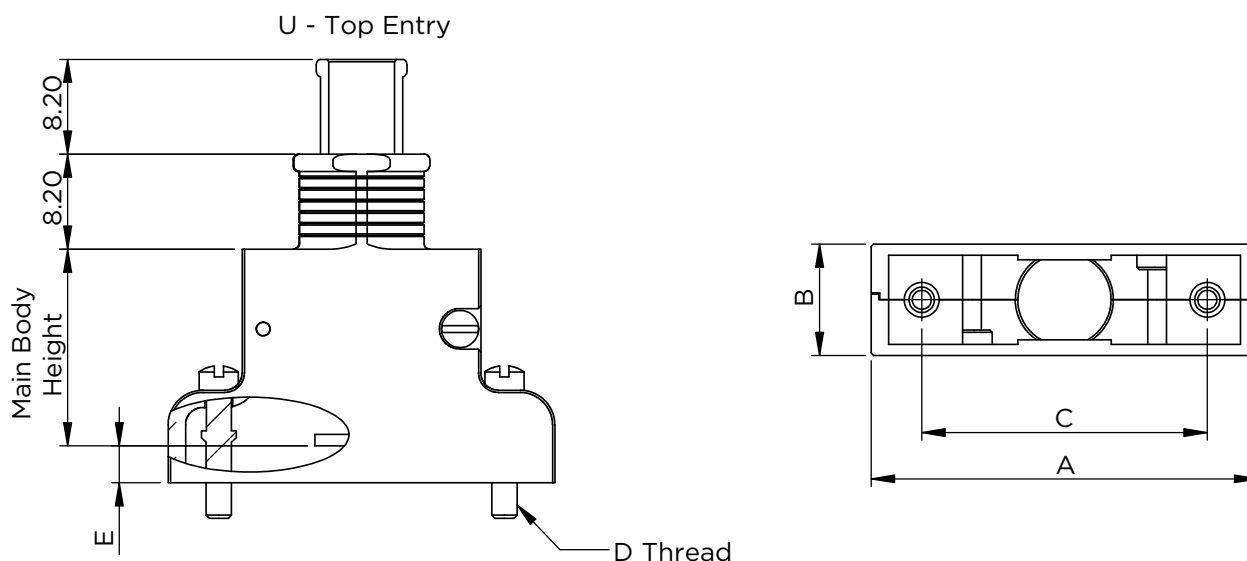


Split Body, Shrouded with Tie Post

- Overall screen termination by band
- Wide range of circular or elliptical entry ports to suit cable requirements
- With or without heat shrink boot groove
- Bands ordered separately from TE – see page 49

SPECIFICATION

- **Mates to:** MIL-DTL-83513
- **Screen Termination:** Overall screen
- **Strain Relief and Cable Sealing:** Heat shrink boot option
- **Additional Components Required:** Boot, band



EXAMPLE

TERMINATION SERIES	MPMMD - U	D	T	S	O	O - 05 - 17 - 1 - C - S	HARDWARE OPTION (See Page 47) O, S, H, E, F, K
ENTRY POSITION	U	Top Entry					PLATING (See Page 6)
SHELL SIZE	A, B, C, D, E, F, G, H						MATERIAL (See Page 6)
SHELL STYLE	T	Two Piece (Split) Body					MAIN BODY HEIGHT (See Page 46) Not a Variable Option
INTERFACE VARIANT	S	Shrouded					ENTRY SIZE 02 - 11
MOUNTING CODE	O - 1						GROUNDING OPTION O No Grounding

MPMMD Series – Micro Band Termination with Tie Post

For MIL-DTL-83513 Connectors

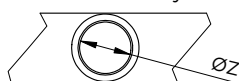
Shell Size	Connector Ref.	A	B	C	D Thread	Main Body Height
A	09	23.09	9.60	14.35	2-56 UNC – 2A	17.0
B	15	26.90	9.60	18.16		17.0
C	21	30.71	9.60	21.97		17.0
D	25	33.25	9.60	24.51		17.0
E	31	37.06	9.60	28.32		17.0
F	37	40.87	9.60	32.13		20.0
G	51	39.60	9.60	30.86	4-40 UNC – 2A	22.0
H	100	58.27	12.00	45.72		22.0

Mounting Code	Receptacle Mounting Position	Panel Thickness	E
0	Rear Mount	3.50	3.20
1	Rear Mount	1.60	5.10

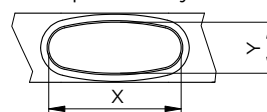
AVAILABLE ENTRY SIZES

Shell Size	Connector Ref.	U – Top Entry	
		Circular	Elliptical
A	09	02 - 04	NA
B	15	02 - 05	NA
C	21	02 - 05	06
D	25	02 - 05	06
E	31	02 - 05	06 - 07
F	37	02 - 05	06 - 08
G	51	02 - 05	06 - 08
H	100	02 - 05	06 - 11

Circular Entry



Elliptical Entry

ENTRY SIZE TABLE 1 –
CIRCULAR ENTRY ONLY

Entry Size (Circular)	Dia Z Min
02	3.18
03	4.77
04	6.35
05	7.93

ENTRY SIZE TABLE 2 –
ELLIPTICAL ENTRY ONLY

Entry Size (Elliptical)	X Min	Y Min
06	15.00	6.00
07	20.00	6.00
08	25.00	6.00
08*	23.50	6.50
09	25.00	8.00
10	31.00	8.00
11	36.00	8.00

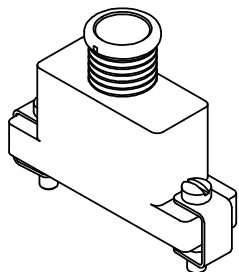
* Entry size dimensions apply to shell sizes G and H only

Measurements shown in mm

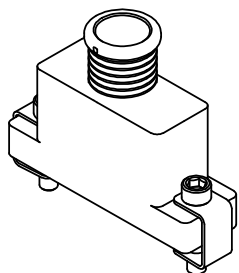
Accessories

For MIL-DTL-83513 Connectors

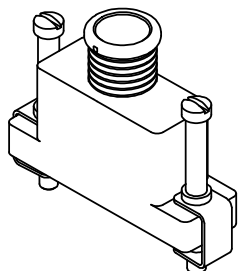
Hardware Options



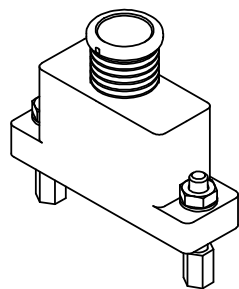
Hardware Option Code: S
Slotted Head Jackscrew Retained with 'Over-End' Clip
Material: Stainless Steel, Passivate Finish
Not Recommended for Use with Entry Positions F and E



Hardware Option Code: H
Hex Drive Socket Head Jackscrew Retained with 'Over-End' Clip
Material: Stainless Steel, Passivate Finish



Hardware Option Code: E
Extended Slotted Head Jackscrew Retained with 'Over-End' Clip
Material: Stainless Steel, Passivate Finish
Not Available for Entry Positions F and E

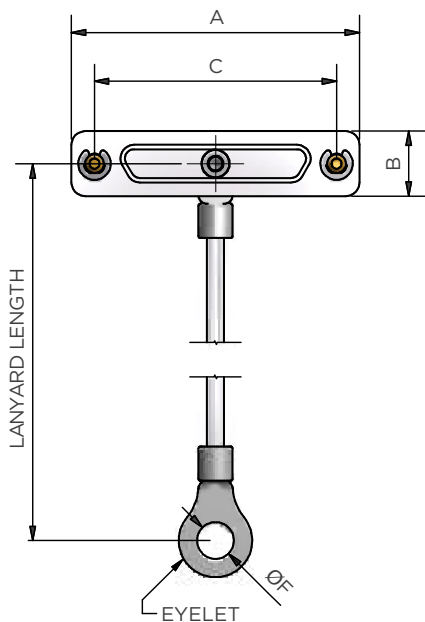


Hardware Option Code: F
Female Thread Jackpost
Material: Stainless Steel, Passivate Finish

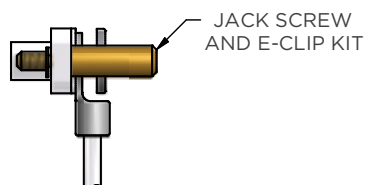
Hardware Option Code: 0 (Zero)
Backshell Supplied without Hardware
to Be Used with All Thin Flange Backshell Options

Accessories

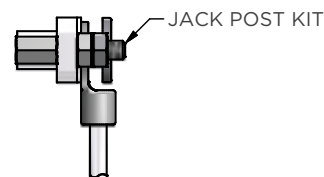
For MIL-DTL-83513 Connectors



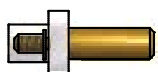
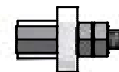
MMP-**RM-*(-***-**)



MMP-**RF-*(-***-**)



WITHOUT ATTACHMENT

MMP-**RM-**-
NO ATTACHMENT VERSIONMMP-**RF-**-
NO ATTACHMENT VERSION

EXAMPLE

SERIES	MMP	31	R	F	1	C	WR	NG	02	ATTACHMENT TYPE
SHELL SIZE (Table 1)										00 No Eyelet
RECEPTACLE PROTECTION CAP										01-05 Eyelet Ref. (See Table 2)
HARDWARE OPTION										CF Crimp Ferrule (Supplied Loose)
M Jackscrews										LANYARD LENGTH IN INCHES
F Jackposts										3" 76.2 mm
MATERIAL (See Page 6)										4" 101.6 mm
PLATING (See Page 6)										5" 127.0 mm
										6" 152.4 mm
										12" 304.8 mm
										LANYARD TYPE (See Table 3)

TABLE 1

Shell Size	A	B	C
09	19.7	7.6	14.35
15	23.5	7.6	18.16
21	27.3	7.6	21.97
25	29.9	7.6	24.51
31	33.7	7.6	28.32
37	37.7	7.6	32.13
51	36.2	8.6	30.86
100	54.8	9.7	45.72

TABLE 2

Eyelet Ref.	ØF
01	3.2
02	3.7
03	4.3
04	5.3
05	6.4

TABLE 3

Code	Lanyard Type
WR	Nylon Covered (Clear) Stainless Steel Wire Rope
TC	Teflon Covered (Clear) Stainless Steel Wire Rope
WG	Teflon Covered (Olive Drab) Stainless Steel Wire Rope
WB	Teflon Covered (Black) Stainless Steel Wire Rope
WRB	PVC Covered (Black) Stainless Steel Wire Rope
LC	Link Chain
BK	Black Cord
VGB	1.5 mm Black Polyester Cord Equivalent to DIN83330-E1.5
B	Bead Chain
R	Olive Drab Polyester Cord
NB	Olive Drab Nylon Cord
NK	Black Nylon Cord

Measurements shown in mm

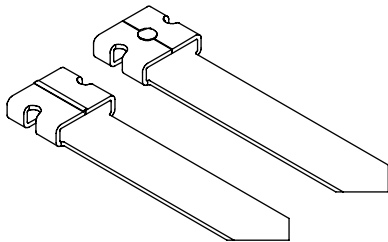
Banding Termination Solution



M85049/128 Band Straps

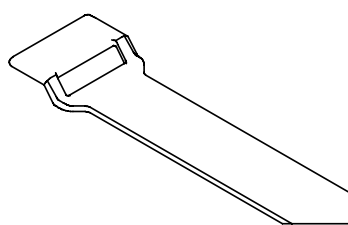
- Meets AS85049 NAVAIR standards
- Self-coupling locking nut provides an improved mechanical protection against loosening under vibration
- Corrosion resistant stainless steel
- Band straps available flat for side entry or precoiled for end entry
- Side-entry band straps allow easier installation and repair

TWO-STEP BAND



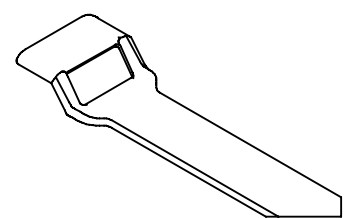
M85049/128-1 Flat
M85049/128-2 Pre-Coiled

STANDARD BAND



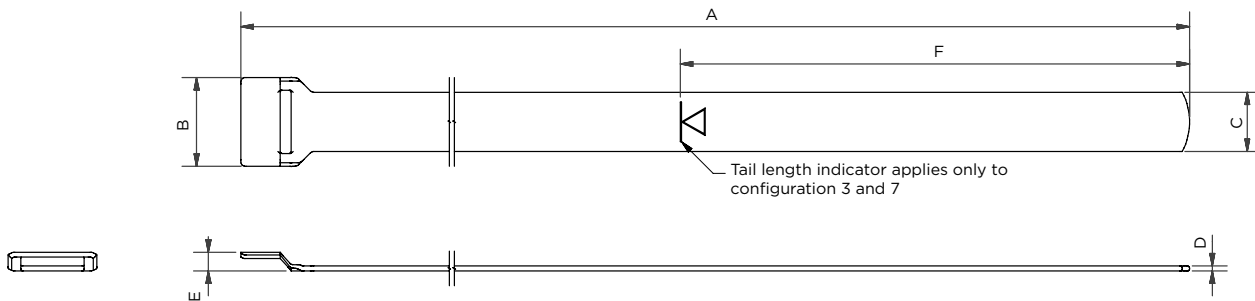
M85049/128-3 Flat
M85049/128-4 Pre-Coiled

MICROBAND

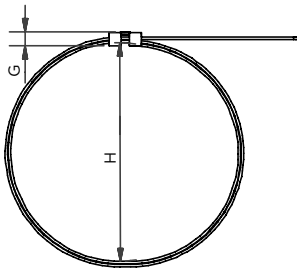


M85049/128-7 Flat
M85049/128-8 Pre-Coiled

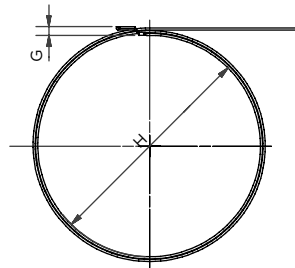
FLAT BAND - CONFIGURATION 1, 3, 7



PRE-COILED BAND CONFIGURATION 2



PRE-COILED BAND CONFIGURATION 4, 8



EXAMPLE **M85049/128** - 1
SERIES _____
CONFIGURATION _____

Configuration	A ± .06	B ± .031	C ± .010	D ± .003	E ± .015	F Ref	G Max	H Ref	Suffix	Tool Required
1	358.90	8.33	6.22	0.48	2.54	-	-	-	-	M81036/2-01
2	-	-	-	-	-	-	3.56	44.5	-S2	M81036/2-01
3	361.95	8.89	6.22	0.48	1.88	51.59	-	-	-	M81036/1-01
4	-	-	-	-	-	-	3.81	44.5	-SB	M81036/1-01
7	206.25	4.95	2.92	0.38	1.35	51.59	-	-	-	M81036/1-02
8	-	-	-	-	-	-	1.85	21.8	-MB	M81036/1-02

Measurements shown in mm

Glossary of Terms

Backshell

Any accessory fitted to the rear thread of a connector, providing strain relief, screen termination and/or cable sealing.

Blanking Cover

Helps to provide environmental protection and EMC shielding to circuitry or shorting loops at the rear of a connector that is to be used as a stand-alone device.

Connector

Device for electrically connecting wires to each other or to electrical equipment.

EMC

Electromagnetic compatibility assures the avoidance of interference effects resulting from the unintentional generation, propagation and reception of electromagnetic energy. This can be achieved by properly grounded shielding (screening) or by electronically filtering signals (filter connector).

EMI

Electromagnetic interference, also called radio-frequency interference when in the radio frequency spectrum, is a disturbance generated by an external source that affects an electrical circuit by electromagnetic induction, electrostatic coupling, or conduction.

Entry Size

Two digits describe the diameter of the hole through which the cable enters into the backshell. Check specific series for details – note that some series such as boot adaptors (97 series) and cable clamps (96 series) do not require the entry size to be stated.

Heat Shrink Boot

Molded sleeve that joins the cable jacket to a suitable backshell, for purposes of strain-relief and environmental protection. Heat shrink boots shrink to fit and are installed by use of a specialised hot air gun. Adhesive-lined boots and a variety of materials are available.

Overall Screen

EMC shield (e.g. screenbraid) encompassing entire wire bundle.

Protective Cover

Provides environmental protection and EMC shielding on the front (mating end) of an unmated connector.

RoHS

The RoHS Directive bans the placing on the EU market of new electrical and electronic equipment containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.

Screenbraid

Flexible EMC shield in expanding sleeve form for covering cable.

Shell Size

Two numerical digits that state the size of the connector.

Shield

See EMC

Strain Relief

Any method of relieving the strain on the individual wires, should the cable be put under tension. Common methods are cable clamps, heatshrink boots, tie posts.

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RECTANGULAR BACKSHELLS AND ACCESSORIES

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