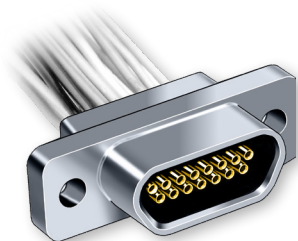


MIL-DTL-83513/03 & /04 Micro-D Pre-Wired Crimp Terminated, Metal Shell Connector



Micro-D
MIL-DTL-83513



Micro-D Pre-Wired Pigtails

These connectors feature gold-plated TwistPin contacts and mil spec crimp termination. Specify aluminum shells for best availability. 100% tested and backpotted, ready for use.

Choose the Wire Type To Fit Your Application

For lightest weight and smallest diameter, select M22759/33 space grade insulated wire.

How To Order MIL-DTL- 83513 Pre-Wired Metal Shell Micro-D Connectors

Sample Part Number		M83513	/04	-B	09	N
Base Part Number	M83513					
Slash Number	/03 Pin Connector (Plug) /04 Socket Connector (Receptacle)					
Shell Size	A, B, C, D, E, F, G, H (See Table I) Codes A - H specify the shell size. The number of contacts is shown below for reference. A - 9 B - 15 C - 21 D - 25 E - 31 F - 37 G - 51 H - 100					
Wire Type	M22759/11-26 Fluoropolymer-Insulated Hookup Wire 01 - 18 Inches (457mm), White 02 - 36 Inches (914mm), White 03 - 18 Inches (457mm), 10 Color Repeating 04 - 36 Inches (914mm), 10 Color Repeating 13 - 72 Inches (1829mm), White 14 - 72 Inches (1829mm), 10 Color Repeating 25 AWG Single Strand Uninsulated Wire 05 - .500 Inch (12.7mm), Gold Plated 06 - 1.000 Inch (25.4mm), Gold Plated 07 - .500 Inch (12.7mm), Tin-Lead Plated(2) 08 - 1.000 Inch (25.4mm), Tin-Lead Plated(2) M22759/33-26 Irradiated Tefzel® Insulated Hookup Wire 09 - 18 Inches (457mm), White 10 - 36 Inches (914mm), White 11 - 18 Inches (457mm), 10 Color Repeating 12 - 36 Inches (914mm), 10 Color Repeating 15 - 72 Inches (1829mm), White 16 - 72 Inches (1829mm), 10 Color Repeating					
Shell Finish	C - Cadmium A - Electrodeposited Aluminum N - Electroless Nickel K - Zinc Nickel P - Passivated SST T - Nickel Fluorocarbon Polymer					

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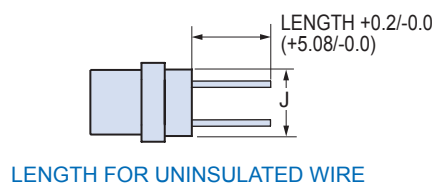
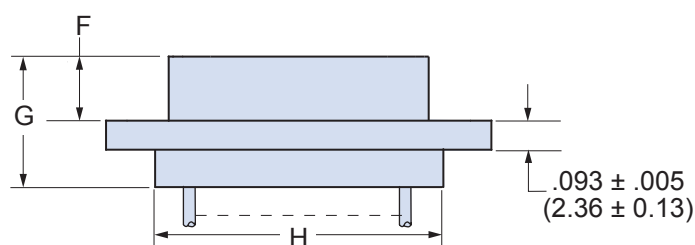
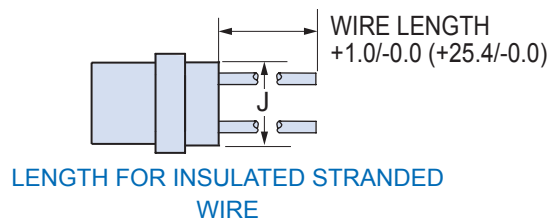
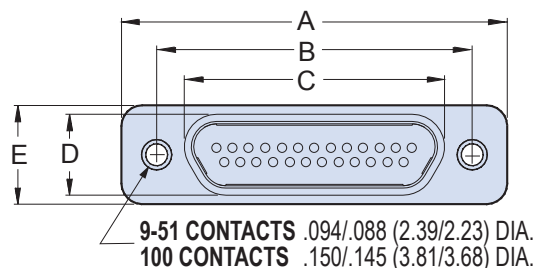
Notes

1. Shell Material & Finish: Cadmium plating offers better corrosion resistance compared to nickel, but cad is not acceptable for space or RoHS applications. Electroless nickel plated aluminum is recommended for new design activity. Or, choose stainless steel shells for corrosive environments.
2. Tin-Plated Wire: Glenair M83513 connectors do not contain any components exceeding 97% tin.
3. M22759/33 Corrosion: The M83513 spec contains a cautionary note regarding M22759/33 wire. The wire insulation is known to cause corrosion to metal parts when stored in a sealed environment. This corrosion has been observed on M83513 connectors. Glenair has implemented a packaging procedure to minimize or eliminate this problem. Connectors are individually wrapped with Fluoropolymer tape, and the unit pack is a perforated paper envelope. M22759/33 continues to be the preferred wire for space applications.



MIL-DTL-83513/03 & /04 Micro-D Pre-Wired Crimp Terminated, Metal Shell Connector

Table I: Dimensions

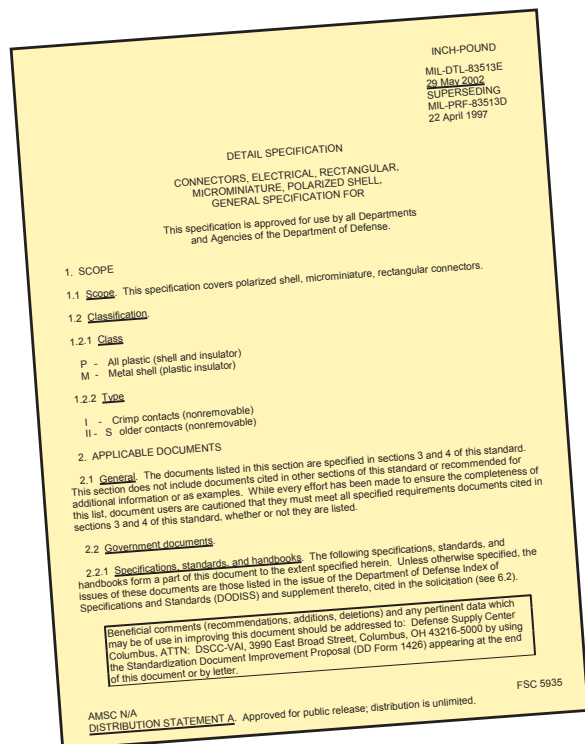


Layout	A Max.		B		C Max.		D Max.		E Max.		F		G Max.		H Max.		J Max.	
	In.	mm.	In. ± .003	mm. ± 0.08	In.	mm.	In.	mm.	In.	mm.	In. ± .003	mm. ± 0.08	In.	mm.	In.	mm.	In.	mm.
9P	.785	19.94	.565	14.35	.333	8.46	.184	4.67	.310	7.87	.183	4.65	.416	10.57	.400	10.16	.270	6.86
9S	.785	19.94	.565	14.35	.400	10.16	.250	6.35	.310	7.87	.195	4.95	.429	10.90	.400	10.16	.270	6.86
15P	.935	23.75	.715	18.16	.483	12.27	.184	4.67	.310	7.87	.183	4.65	.416	10.57	.550	13.97	.270	6.86
15S	.935	23.75	.715	18.16	.551	14.00	.250	6.35	.310	7.87	.195	4.95	.429	10.90	.550	13.97	.270	6.86
21P	1.085	27.56	.865	21.97	.633	16.08	.184	4.67	.310	7.87	.183	4.65	.416	10.57	.700	17.78	.270	6.86
21S	1.085	27.56	.865	21.97	.701	17.81	.250	6.35	.310	7.87	.195	4.95	.429	10.90	.700	17.78	.270	6.86
25P	1.185	30.01	.965	24.51	.733	18.62	.184	4.67	.310	7.87	.183	4.65	.416	10.57	.800	20.32	.270	6.86
25S	1.185	30.01	.965	24.51	.801	20.35	.250	6.35	.310	7.87	.195	4.95	.429	10.90	.800	20.32	.270	6.86
31P	1.335	33.91	1.115	28.32	.883	22.43	.184	4.67	.310	7.87	.183	4.65	.416	10.57	.950	24.13	.270	6.86
31S	1.335	33.91	1.115	28.32	.951	24.16	.250	6.35	.310	7.87	.195	4.95	.429	10.90	.950	24.13	.270	6.86
37P	1.485	37.72	1.265	32.13	1.033	26.24	.184	4.67	.310	7.87	.183	4.65	.416	10.57	1.100	27.94	.270	6.86
37S	1.485	37.72	1.265	32.13	1.101	27.96	.250	6.35	.310	7.87	.195	4.95	.429	10.90	1.100	27.94	.270	6.86
51P	1.435	36.45	1.215	30.86	.983	24.97	.228	5.79	.351	8.92	.183	4.65	.416	10.57	1.050	26.67	.310	7.87
51S	1.435	36.45	1.215	30.86	1.051	26.70	.296	7.52	.351	8.92	.195	4.95	.429	10.90	1.050	26.67	.310	7.87
100P	2.170	55.12	1.800	45.72	1.383	35.13	.270	6.86	.394	10.01	.183	4.65	.416	10.57	1.442	36.63	.360	9.14
100S	2.170	55.12	1.800	45.72	1.451	36.86	.333	8.46	.394	10.01	.195	4.95	.429	10.90	1.442	36.63	.360	9.14



MIL-DTL-83513 Micro-D Connectors

MIL-DTL-83513 At-A-Glance



What is the difference between a Glenair COTS Micro-D and a Glenair Mil Spec Micro-D? Which is less expensive?

All Glenair Micro-D's, whether mil spec or COTS, are built with the same components and meet identical requirements. A COTS Micro-D is not a lower cost version of a mil spec part. COTS versions offer more options than the mil spec versions.

Which is more readily available:

Mil Spec or COTS?

All M83513 aluminum shell connectors are in stock. All standard COTS versions are also stocked.

What is the difference between a Glenair Mil Spec connector and another brand?

MIL-DTL-83513 allows the use of low-cost stamped contacts; however, the Glenair Micro-D connector features the high performance TwistPin contact system. Glenair M83513 connectors are 100% Made in USA. Glenair's industry-leading Micro-D capacity and capabilities offer quick worldwide access to the full range of QPL items.

About The Mil Spec

The United States Department of Defense, Defense Logistics Agency, Defense Supply Center, Columbus, Ohio (DSCC, pronounced "Dessy"), maintains a vast library of military specifications covering all kinds of components used in defense equipment. These mil specs simplify system design and procurement, because mil spec parts do not require costly testing for suitability. Easy multiple sourcing is another key advantage of a mil spec part. MIL-DTL-83513 is a detail spec controlling dimensions, materials, performance and testing. This spec covers plastic and metal shell Micro-D connectors.

The QPL At-A-Glance

Manufacturers are required to perform a series of mechanical, electrical and environmental tests in order to be eligible for listing as an approved supplier. When DSCC approval is granted, the manufacturer is added to the Qualified Products List (QPL). Glenair is QPL approved for all M83513 variations.

The "Slash Sheets" At-A-Glance

In addition to the general specification, MIL-DTL-83513 contains a total of 33 Detail Specification Sheets, nicknamed "slash sheets" because a forward slash is used in the numbering system.

How to get a copy of the spec

DSCC specs are available for download. The documents include:

MIL-DTL-83513 Detail Specification (the general spec)

MIL-DTL-83513 Slash Sheets (33 individual specs)

These specs can be found at:

<http://www.dsccl.dla.mil/Programs/MilSpec/DocSearch.asp>

The QPL can be found at:

<http://www.dsccl.dla.mil/programs/qmlqpl/default.asp>

Glenair CAGE Codes

A **CAGE** (**C**ommercial **A**nd **G**overnment **E**ntity) Code is a five position code that identifies companies doing or wishing to do business with the Federal Government. Glenair uses two CAGE codes to identify M83513 products: **06324**, Glenair, Glendale, California
0CA77, Glenair Microway Division, Lincolnwood Illinois.