MIL-DTL 83513

MIL-DTL 83513 Series Connector

With a proven history of engineering and manufacturing excellence spanning over 90 years, ITT has delivered a broad range of innovative product solutions that have and continue to enable our customers to meet their most demanding design requirements. ITT's design centers provide time proven high quality products and exceptional service to customers through a global network of field application engineers, sales force and manufacturing facilities.

The M83513 series is designed to meet applications requiring reliable, extremely small and lightweight form factors. This high density rectangular form factor meets the increasing demand for environmentally safe, rugged and moisture-sealed microminiature connectors.



Innovative Interconnect Benefits

- Multiple shells options available in aluminum and thermoplastic
- Available with wired "pig-tail", solder cup, right angle, condensed right angle and straight PC-tail
- MIL-DTL-83513 and MDM series Micro-D connectors use high performance twist pin contact technology
- Available in high temperature (200°c) and nonmagnetic versions

Product Features

- 0.050" center to center contact spacing
- Hermetic, filtered and connector saver options available
- MDM available in sealed, combo, coax and power contact arrangements
- Push-Pull hardware option requires no torque, reducing misalignment and rocking

Applications

- Military Vehicles
- Down Hole Equipment
- Biomedical Electronics
- Unmanned Vehicles
- Aerospace Launch Vehicles
- Instrumentation



M83513 Selection Guide

Max. Voltage 600 VAC rms Sea Level		Max. Current 3.0 Amps		Operating Temp -55 to +125 degrees C			Durability 500 mating cycles		
	M83513 Pro	oduct Line Talking Dog	M83513	01	H100	**	С	P	
			Series Prefix	Slash Sheet	Insert Arrangement	Wire Type	Shell Finish	Hardwa	
Series		Wired/Solder			PCB				
Slash Sheet	01 - Plug, connector, solderpot (metal shell)			10 - Connector, plug, condensed board right angle (CBR), sizes 9-37					
	02 - Receptacle, connector, solderpot (metal shell)			11 - Connector, plug, CBR, size 51					
	03 - Plug, connector, crimp type (metal shell)			12 - Connector, plug, CBR, size 100					
	04 - Receptacle, connector, crimp type (metal shell)			13 - Connector, receptacle, CBR, sizes 9-37					
	05 - Hardware only ⁵ 06 - Plug connector, solderpot (plastic) ³			14 - Connector, receptacle, CBR, size 51 15 - Connector, receptacle, CBR, size 100					
	07 - Receptacle, connector, solderpot (plastic) ³			16 - Connector, plug, board right angle (BR), sizes 9-37					
	08 - Plug, connector, crimp type (plastic) ³			17 - Connector, plug, BR, size 51					
	09 - Receptacle, connector, crimp type (plastic) ³			18 - Connector, plug, BR, size 100					
					ector, receptacle, E				
				20 - Conr	ector, receptacle, E	BR Size 51			
				21 - Connector, receptacle, BR Size 100					
					ector, plug, board s	0 ().	9-37		
					ector, plug, BS, Siz				
					ector, plug, BS, Siz				
					ector, receptacle, E				
					ector, receptacle, E				
Insert Arrangement	A - 9 Contact				tact (metal shell)				
	B - 15 Contact			B - 15 Co	ntact (metal shell)				
	C - 21 Contact			C - 21 Co	ntact (metal shell)				
	D - 25 Contact				ntact (metal shell)				
	E - 31 Contact				ntact (metal shell)				
	F - 37 Contact			F - 37 Contact (metal shell) G - 51 Contact (metal shell)					
	G - 51 Contact H - 100 Contact ³			H - 100 Contact (metal shell)					
	No Number - For solderpot			No Number - For solderpot					
	01 - 18" long, #26 AWG per SAE-AS22759/11-26-9 (all white)			01109" long, #24 AWG solid cooper wire per A-A-59551-343, Type "S", solder dipped ⁶					
	02 - 36" long, #26 AWG per SAE-AS22759/11-26-9 (all white)			02140" long, #24 AWG solid copper wire per A-A-59551-343, Type "S", solder dipped ^{1.6}					
		STD-681, system 1, 10 colors repe	ating ⁴	03172" dipped ⁶	long, #24 AWG so	lid copper wire per	А-А-59551-343, Тур	be "S", solder	
	04 - 26" long, #26 AWG p color coded per MIL-	er SAE-AS22759/11-26 STD-681, system 1, 10 colors repe	ating⁴						
	055" long, #25 AWG, t	ype S per A-A-59551-343, Gold Pla	ited						
		type S per A-A-59551-343, Gold P							
	0	ype S per A-A-59551-343, Tin Plate							
Wire Type		type S per A-A-59551-343, Tin Pla per SAE-AS22759/33-26-9 (all white							
		er SAE-AS22759/33-26-9 (all white	,						
	11 - 18" long, #26 AWG p		,						
	12 - 36" long, #26 long #4	AWG per ASAE-AS2759/33-26 STD 681, system 1, 10 colors repe							
		er SAE-AS22759/11-26-9 (all white							
	14 - 72" long, #26 AWG p								
		er SAE-AS22759/33-26-9 (all white	, in the second s						
	16 - 72" long, #26 AWG p	,	,						
Shell Finish	No Number - for plastic ty		au 19 ^{-, .}	C - Cadm	ium				
	C - Cadmium	po connector			oless nickel ²				
	N - Electroless nickel			IN - LIECU					
Hardware				N - No jao	kpost				
					ost (permanently at	tached)			
					· · · · · · · · · · · · · · · · · · ·	/			

1 - Tolerance on wire lengths: 18", 36" and 72" long - +1.00"/-0.00. 2 - For space applications, connector shell finish must be "A174" and wire must be per SAE-AS22759/33-26. 3 - Size 100 not available in /06 through /09 (Plastic Shells). 4 - Color coding in accordance with MIL-STD-681, system 1. 5 - For mounting hardware to Military Specifications (sizes 9 to 100). 6 - Tolerance on termination ± .015

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