

Series 803 Harsh Environment Shielded Cordsets



High performance Mighty Mouse cordsets feature easy ordering and fast delivery. These fully shielded and watertight assemblies withstand abrasion, temperature extremes and chemicals. Flexible overmolding provides rugged, watertight protection to wire and shield. Two styles are available: **Style 1** polyamide overmold and polyurethane cable jacket, and **Style 2** improved temperature range, high flexibility thermoplastic rubber overmold and cable jacket. Overmolded Mighty Mouse cordsets are suitable for military gear and other hostile environments where interconnect reliability and survivability is essential.

Product Features

- Single-ended or double-ended
- Rugged, watertight construction
- 100% electrically tested
- Flexible to -55°C. (Style 2)
- Stainless steel shield termination band
- Resistant to chemicals
- Withstands UV and ozone

Harsh Environment Cordset Selection Guide		
Property	Style 1 Polyurethane Jacket Polyamide Overmold	Style 2 Rubber Jacket Rubber Overmold
Cable jacket	Thermoplastic polyurethane (TPU), black	Thermoplastic elastomer (TPV), black
Overmold	Polyamide, black	Thermoplastic elastomer (TPV), black
Operating temperature	-30° C. to +105° C.	-55° C. to +135° C.
Flexibility	Good	Excellent
Water Resistance	Waterproof	Waterproof
Solvent Resistance, Cable Jacket	Excellent	Good
Solvent Resistance, Overmold	Fair ⁽¹⁾	Good
Weatherability	Excellent	Excellent
Abrasion Resistance	Excellent	Good
Flammability	Flame retardant UL 94 V-0	Flame retardant UL 94 HB
Low Smoke, Zero Halogen Cable Jacket	Yes	No
(1) Excellent resistance to most solvents, fuels, and oils; poor resistance to strong acids and bipolar solvents (alcohol)		

Specifications

Cable jacket	Style 1: thermoplastic polyurethane, black, low-smoke, zero-halogen Style 2: thermoplastic elastomer, black
Overmold	Style 1: polyamide Style 2: thermoplastic elastomer, black
Cable shield	Tin-coated copper braid, 90% minimum coverage
Conductors	Silver coated stranded wire, TFE insulated, per M22759/11
Shield Termination	Band-Master™ ATS stainless steel shield termination band
Current rating	#23-5 amps, #20-7.5 amps, #16-13 amps, #12-23 amps
Test voltage (DWV)	#23 500 Vac, #20 500 vac, #16 and #12 500 VAC sea level
Insulation resistance	200 Megohms minimum
Shielding effectiveness	50 dB minimum from 100MHz to 1000MHz.

High-Speed Cordsets

Controlled impedance twisted pair cordsets for Ethernet, USB and other protocols are available. Please refer to Section U

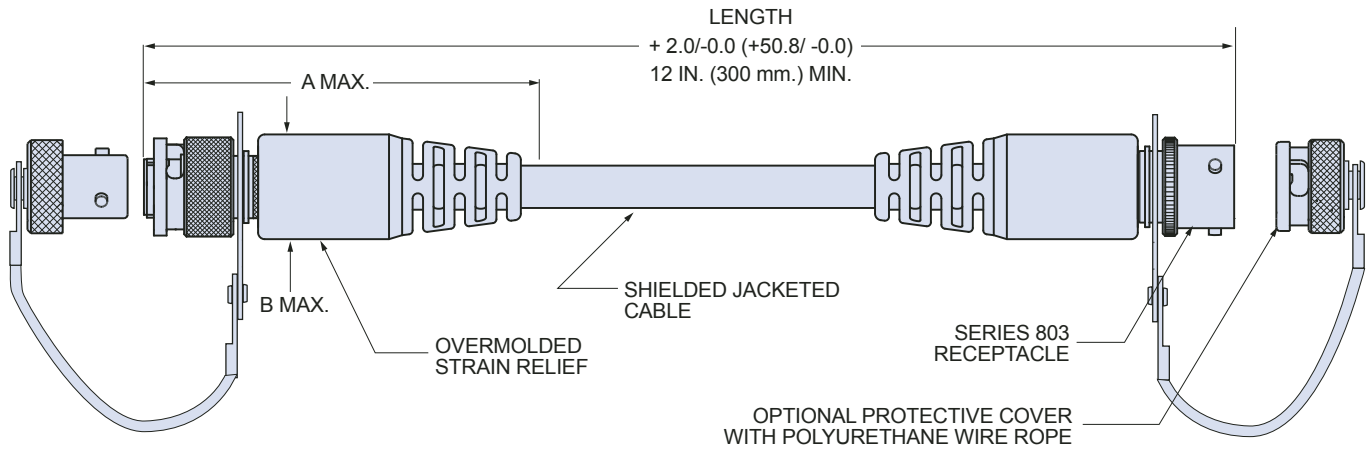
Dimensions in Inches (millimeters) are subject to change without notice.

Series 803 Mighty Mouse ¼ Turn Bayonet Coupling Shielded Overmolded Harsh Environment Cordsets

Dimensions



Series 803



Dimensions				
Shell Size	A Max.		B Max.	
	In.	mm.	In.	mm.
5	2.38	60.45	0.50	12.70
6	2.48	62.99	0.55	13.97
7	2.58	65.53	0.65	16.51
8	2.65	67.31	0.71	18.03
9	2.85	72.39	0.78	19.81
10	2.82	71.63	0.82	20.83
12	3.00	76.20	0.9	22.86
14	3.20	81.28	1.10	27.94

NOTES

1. Double-ended cordsets are wired pin #1 to pin #1, #2 to #2, and so on.
2. Wires are silver-coated stranded copper with TFE insulation, 600V, in accordance with M22759/11.
3. Wire color is IAW MIL-STD-681 for cables containing 10 wires or less. For cable containing more than 10 wires, wire color is white.

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Series 803 Mighty Mouse ¼ Turn Bayonet Coupling Shielded Overmolded Harsh Environment Cordsets

803-009, 030, -016, and -031 Ordering Information

Series 803 Cordsets with #23 Contacts								
Sample Part Number								
803-009	-A	C	2	M	8-28	N	X	-36
Series	End A Connector	End B Connector	Wire Size	Shell Material / Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length
803-009 Style 1 Polyurethane Cable Jacket, Polyamide Overmold	-A Plug, with Male Pin Contacts	A Plug, with Male Pin Contacts	2 #22 AWG	M Aluminum / Electroless Nickel	See page F-2 for insert arr.	P Metal Protective Covers Included	N Normal	Overall Length In Inches 12 Inch Min.
803-030 Style 2 Rubber Cable Jacket and Overmold	-B Plug, with Female Socket Contacts	B Plug, with Female Socket Contacts	4 #24 AWG	NF Aluminum / Cadmium with OD Chromate	Consult Factory for Combo Arr.	N No Covers Supplied	X Pos. X Y Pos. Y Z Pos. Z	
	-C Receptacle, with Male Pin Contacts	C Receptacle, with Male Pin Contacts		ZNU Aluminum / Zinc-Nickel with Black Chromate				
	-D Receptacle, with Female Socket Contacts	D Receptacle, with Female Socket Contacts		MT Aluminum / Nickel-PTFE			See page F-3	
		N No Connector (Single-Ended)		Z1 Stainless Steel / Passivated				

Series 803 Cordsets with #20HD Contacts								
Sample Part Number								
803-041	-A	C	0	M	8-28	N	X	-36
Series	End A Connector	End B Connector	Wire Size	Shell Material / Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length
803-016 Style 1 Polyurethane Cable Jacket, Polyamide Overmold	-A Plug, with Male Pin Contacts	A Plug, with Male Pin Contacts	0 #20 AWG	M Aluminum / Electroless Nickel	See page F-2 for insert arr.	P Metal Protective Covers Included	N Normal	Overall Length In Inches 12 Inch Min.
803-031 Style 2 Rubber Cable Jacket and Overmold,	-B Plug, with Female Socket Contacts	B Plug, with Female Socket Contacts	2 #22 AWG	NF Aluminum / Cadmium with OD Chromate	Consult Factory for Combo Arr.	N No Covers Supplied	X Pos. X Y Pos. Y Z Pos. Z	
	-C Receptacle, with Male Pin Contacts	C Receptacle, with Male Pin Contacts		ZNU Aluminum / Zinc-Nickel with Black Chromate				
	-D Receptacle, with Female Socket Contacts	D Receptacle, with Female Socket Contacts		MT Aluminum / Nickel-PTFE			See page F-3	
		N No Connector (Single-Ended)		Z1 Stainless Steel / Passivated				

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Series 803 Mighty Mouse ¼ Turn Bayonet Coupling Shielded Overmolded Harsh Environment Cordsets

803-013, -032, -014 and -033 Ordering Information



Series 803

Series 803 Cordsets with #16 Contacts								
Sample Part Number								
803-013	-A	C	6	M	8-28	N	X	-36
Series	End A Connector	End B Connector	Wire Size	Shell Material/ Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length
803-013 Style 1 Polyurethane Cable Jacket, Polyamide Overmold	-A Plug, with Male Pin Contacts	A Plug, with Male Pin Contacts	6 #16 AWG	M Aluminum / Electroless Nickel	See page F-2 for insert arr.	P Metal Protective Covers Included	N Normal X Pos. X	Overall Length In Inches 12 Inch Min.
803-032 Style 2 Rubber Cable Jacket and Rubber Overmold	-B Plug, with Female Socket Contacts -C Receptacle, with Male Pin Contacts -D Receptacle, with Female Socket Contacts	B Plug, with Female Socket Contacts C Receptacle, with Male Pin Contacts D Receptacle, with Female Socket Contacts N No Connector (Single-Ended)	8 #18 AWG	NF Aluminum / Cadmium with OD Chromate ZNU Aluminum / Zinc- Nickel with Black Chromate MT Aluminum / Nickel-PTFE Z1 Stainless Steel / Passivated	Consult Factory for Combo Arr.	N No Covers Supplied	Y Pos. Y Z Pos. Z See page F-3	

Series 803 Cordsets with #20HD Contacts								
Sample Part Number								
803-014	-A	C	0	M	8-28	N	X	-36
Series	End A Connector	End B Connector	Wire Size	Shell Material / Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length
803-014 Style 1 Polyurethane Cable Jacket, Polyamide Overmold,	-A Plug, with Male Pin Contacts	A Plug, with Male Pin Contacts	0 #20 AWG	M Aluminum / Electroless Nickel	See page F-2 for insert arr.	P Metal Protective Covers Included	N Normal X Pos. X	Overall Length In Inches 12 Inch Min.
803-033 Style 2 Rubber Cable Jacket and Rubber Overmold,	-B Plug, with Female Socket Contacts -C Receptacle, with Male Pin Contacts -D Receptacle, with Female Socket Contacts	B Plug, with Female Socket Contacts C Receptacle, with Male Pin Contacts D Receptacle, with Female Socket Contacts N No Connector (Single-Ended)	2 #22 AWG	NF Aluminum / Cadmium with OD Chromate ZNU Aluminum / Zinc- Nickel with Black Chromate MT Aluminum / Nickel- PTFE Z1 Stainless Steel / Passivated	Consult Factory for Combo Arr.	N No Covers Supplied	Y Pos. Y Z Pos. Z See page F-3	



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