

Series 800 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** features low smoke, zero halogen polyamide overmold and polyurethane cable jacket. **Style 2** features improved temperature operating range and highly flexible 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.

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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

High-Speed Cordsets

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

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)	#23–750 Vac, #20–1000 vac, #16 and #12–1800 VAC sea level
Insulation resistance	200 Megohms minimum
Shielding effectiveness	50 dB minimum from 100MHz to 1000MHz.

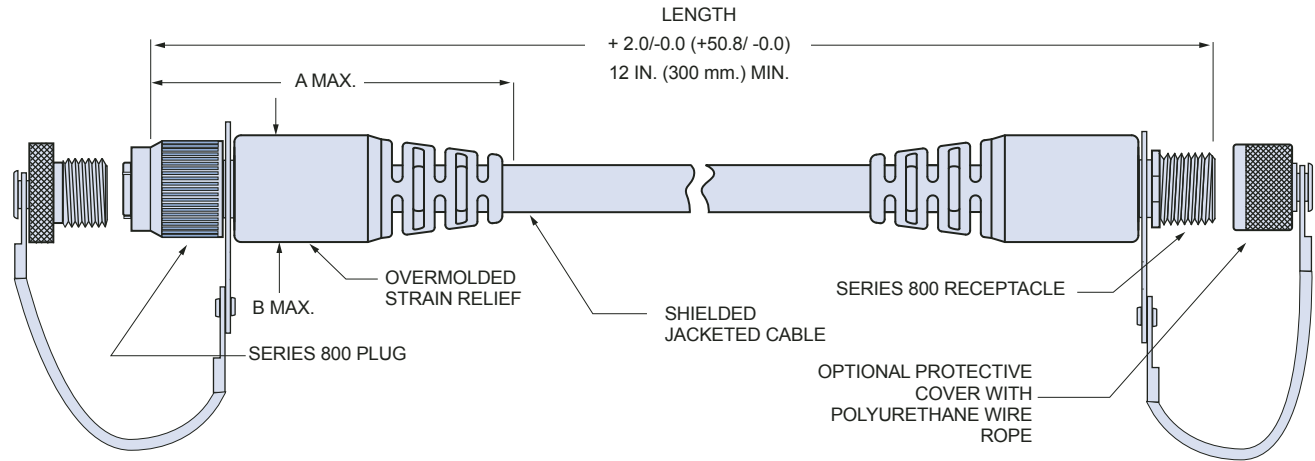
Dimensions in Inches (millimeters) are subject to change without notice.

Series 800 Mighty Mouse, UN Mating Thread Overmolded Cordsets

Dimensions



Series 800



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Dimensions				
Shell Size	A Max.		B Max.	
	In.	mm.	In.	mm.
5	2.30	12.70	0.50	12.70
6	2.40	13.97	0.55	13.97
7	2.50	16.51	0.65	16.51
8	2.55	18.03	0.71	18.03
9	2.75	19.81	0.78	19.81
10	2.71	20.83	0.82	20.83
12	2.90	22.86	0.9	22.86

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 white.

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



Series 800 Mighty Mouse, UN Mating Thread Overmolded Cordsets

800-034, -056, -041, and -057 Ordering Information

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Series 800 Cordsets with #23 Contacts

Sample Part Number									
800-034	-A	C	K	2	M	8-28	N	X	-36
Series	End A Connector	End B Connector	Plug Style	Wire Size	Shell Material/ Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length
800-034 Style 1 Polyurethane Cable Jacket, Polyamide Overmold	-A Plug, with Male Pin Contacts	A Plug, with Male Pin Contacts	K Round Knurled Coupling Nut	2 #22 AWG	M Aluminum / Electroless Nickel	See Cont. Arr. Page C-2	P Metal Protective Covers Included	N Normal	Overall Length In Inches
800-056 Style 2 Rubber Cable Jacket and Rubber Overmold, #23 Contacts	-B Plug, with Female Socket Contacts	B Plug, with Female Socket Contacts	KL Round Knurled Coupling Nut, Self-Locking	4 #24 AWG	NF Aluminum / Cadmium with OD Chromate	Consult Factory for Combo Arr.	N No Covers Supplied	X Pos. X	12 Inch Min.
	-C Receptacle, with Male Pin Contacts	C Receptacle, with Male Pin Contacts	H Hex Coupling Nut		ZNU Aluminum / Zinc-Nickel with Black Chromate			Y Pos. Y	
	-D Receptacle, with Female Socket Contacts	D Receptacle, with Female Socket Contacts	HL Hex Coupling Nut, Self-Locking		MT Aluminum / Nickel-PTFE			Z Pos. Z	
		N No Connector (Single-Ended)	N Receptacle Cable		Z1 Stainless Steel / Passivated			See page C-3	

Series 800 Cordsets with #20HD Contacts

Sample Part Number									
800-041	-A	C	K	0	M	8-28	N	X	-36
Series	End A Connector	End B Connector	Plug Style	Wire Size	Shell Material / Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length
800-041 Style 1 Polyurethane Cable Jacket, Polyamide Overmold, #20HD Contacts	-A Plug, with Male Pin Contacts	A Plug, with Male Pin Contacts	K Round Knurled Coupling Nut	0 #20 AWG	M Aluminum / Electroless Nickel	See Cont. Arr. page C-2	P Metal Protective Covers Included	N Normal	Overall Length In Inches
800-057 Style 2 Rubber Cable Jacket and Rubber Overmold,	-B Plug, with Female Socket Contacts	B Plug, with Female Socket Contacts	KL Round Knurled Coupling Nut, Self-Locking	2 #22 AWG	NF Aluminum / Cadmium with OD Chromate	Consult Factory for Combo Arr.	N No Covers Supplied	X Pos. X	12 Inch Min.
	-C Receptacle, with Male Pin Contacts	C Receptacle, with Male Pin Contacts	H Hex Coupling Nut		ZNU Aluminum / Zinc-Nickel with Black Chromate			Y Pos. Y	
	-D Receptacle, with Female Socket Contacts	D Receptacle, with Female Socket Contacts	HL Hex Coupling Nut, Self-Locking		MT Aluminum / Nickel-PTFE			Z Pos. Z	
		N No Connector (Single-Ended)	N Receptacle Cable		Z1 Stainless Steel / Passivated			See page C-3	

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Series 800 Mighty Mouse, UN Mating Thread Overmolded Cordsets

800-038, -058, -039, and -059 Ordering Information



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Series 800 Cordsets with #16 Power Contacts									
Sample Part Number									
800-038	-A	C	K	6	M	8-2	N	X	-36
Series	End A Connector	End B Connector	Plug Style	Wire Size	Shell Material / Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length
800-038 Style 1 Polyurethane Cable Jacket, Polyamide Overmold, #16 Contacts	-A Plug, with Male Pin Contacts	A Plug, with Male Pin Contacts	K Round Knurled Coupling Nut	6 #16 AWG	M Aluminum / Electroless Nickel	See Cont. Arr. Page C-2	P Metal Protective Covers Included	N Normal	Overall Length In Inches
	-B Plug, with Female Socket Contacts	B Plug, with Female Socket Contacts	KL Round Knurled Coupling Nut, Self-Locking	8 #18 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 See Keyway pos page C-3	12 Inch Min.
800-058 Style 2 Rubber Cable Jacket and Rubber Overmold, #16 Contacts	-C Receptacle, with Male Pin Contacts	C Receptacle, with Male Pin Contacts	H Hex Coupling Nut		ZNU Aluminum / Zinc-Nickel with Black Chromate				
	-D Receptacle, with Female Socket Contacts	D Receptacle, with Female Socket Contacts	HL Hex Coupling Nut, Self-Locking		MT Aluminum / Nickel-PTFE				
		N No Connector (Single-Ended)	N Receptacle Cable		Z1 Stainless Steel / Passivated				

Series 800 Cordsets with #12 Power Contacts									
Sample Part Number									
800-039	-A	C	K	2	M	8-2	N	X	-36
Series	End A Connector	End B Connector	Plug Style	Wire Size	Shell Material / Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length
800-039 Style 1 Polyurethane Cable Jacket, Polyamide Overmold, #12 Contacts	-A Plug, with Male Pin Contacts	A Plug, with Male Pin Contacts	K Round Knurled Coupling Nut	2 #12 AWG	M Aluminum / Electroless Nickel	See Cont. Arr. Page C-2	P Metal Protective Covers Included	N Normal	Overall Length In Inches
	-B Plug, with Female Socket Contacts	B Plug, with Female Socket Contacts	KL Round Knurled Coupling Nut, Self-Locking	4 #14 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 See Keyway pos page C-3	12 Inch Min.
800-059 Style 2 Rubber Cable Jacket and Rubber Overmold, #12 Contacts	-C Receptacle, with Male Pin Contacts	C Receptacle, with Male Pin Contacts	H Hex Coupling Nut		ZNU Aluminum / Zinc-Nickel with Black Chromate				
	-D Receptacle, with Female Socket Contacts	D Receptacle, with Female Socket Contacts	HL Hex Coupling Nut, Self-Locking		MT Aluminum / Nickel-PTFE				
		N No Connector (Single-Ended)	N Receptacle Cable		Z1 Stainless Steel / Passivated				

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