

# Series 801 Mighty Mouse Double Start ACME Thread Overmolded Harsh Environment Cordsets

## General Information



Series 801

## Series 801 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

### 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 <sup>(1)</sup>	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)

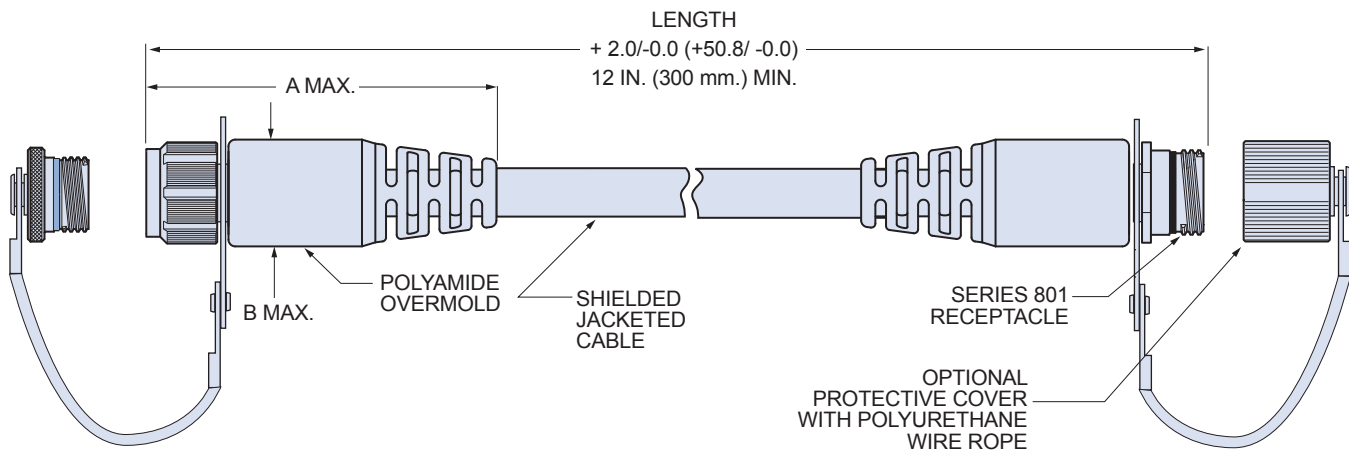
Specifications	
Cable jacket	Style 1: thermoplastic polyurethane, black, low-smoke, zero-halogen Style 2: thermoplastic elastomer, black
Overmold	Style 1: polyamide Style 2: thermoplastic elastomer, black
Cable shield	Tin-coated copper braid, 90% minimum coverage
Conductors	Silver coated stranded wire, 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.

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

D

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## Dimensions



D

Dimensions				
Shell Size	A Max.		B Max.	
	In.	mm.	In.	mm.
5	2.31	58.67	0.50	12.70
6	2.4	60.96	0.55	13.97
7	2.5	63.50	0.65	16.51
8	2.52	64.01	0.71	18.03
9	2.8	71.12	0.78	19.81
10	2.75	69.85	0.82	20.83
11	2.85	72.39	0.87	22.10
13	3.1	78.74	0.90	22.86
16	3.4	86.36	1.10	27.94
17	3.4	86.36	1.20	30.48

### 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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## 801-026, -070, -034, and -071 Ordering Information



Series 801

Series 801 Cordsets with #23 Contacts								
Sample Part Number								
801-026	-A	C	4	M	8-28	N	A	-36
Series	End A Connector	End B Connector	Wire Size	Shell Material/ Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length
<b>801-026</b> <b>Style 1</b> Polyurethane Cable Jacket, Polyamide Overmold #23 Contacts	<b>-A</b> Plug, with Male Pin Contacts	<b>A</b> Plug, with Male Pin Contacts	<b>2</b> #22 AWG	<b>M</b> Aluminum / Electroless Nickel	See Cont. Arr. Page D-2	<b>P</b> Metal Protective Covers Included <b>N</b> No Covers Supplied	<b>A</b> = Normal <b>B</b> thru <b>H</b> and <b>J</b>  See page D-2	Overall Length In Inches 12 Inch Min.
	<b>-B</b> Plug, with Female Socket Contacts	<b>B</b> Plug, with Female Socket Contacts	<b>4</b> #24 AWG	<b>NF</b> Aluminum / Cadmium with OD Chromate	Consult Factory for Combo Arr.			
<b>801-070</b> <b>Style 2</b> Rubber Cable Jacket and Rubber Overmold #23 Contacts	<b>-C</b> Receptacle, with Male Pin Contacts	<b>C</b> Receptacle, with Male Pin Contacts		<b>ZNU</b> Aluminum / Zinc- Nickel with Black Chromate				
	<b>-D</b> Receptacle, with Female Socket Contacts	<b>D</b> Receptacle, with Female Socket Contacts		<b>MT</b> Aluminum / Nickel-PTFE				
		<b>N</b> No Connector (Single-Ended)		<b>Z1</b> Stainless Steel / Passivated				

Series 801 Cordsets with #20HD Contacts								
Sample Part Number								
801-034	-A	C	0	M	8-28	N	A	-36
Series	End A Connector	End B Connector	Wire Size	Shell Material / Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length
<b>801-034</b> <b>Style 1</b> Polyurethane Cable Jacket, Polyamide Overmold #20HD Contacts	<b>-A</b> Plug, with Male Pin Contacts	<b>A</b> Plug, with Male Pin Contacts	<b>0</b> #20 AWG	<b>M</b> Aluminum / Electroless Nickel	See Cont. Arr. Page D-2	<b>P</b> Metal Protective Covers Included <b>N</b> No Covers Supplied	<b>A</b> = Normal <b>B</b> thru <b>H</b> and <b>J</b>  See page D-2	Overall Length In Inches 12 Inch Min.
	<b>-B</b> Plug, with Female Socket Contacts	<b>B</b> Plug, with Female Socket Contacts	<b>2</b> #22 AWG	<b>NF</b> Aluminum / Cadmium with OD Chromate	Consult Factory for Combo Arr.			
<b>801-071</b> <b>Style 2</b> Rubber Cable Jacket and Rubber Overmold #20HD Contacts	<b>-C</b> Receptacle, with Male Pin Contacts	<b>C</b> Receptacle, with Male Pin Contacts		<b>ZNU</b> Aluminum / Zinc- Nickel with Black Chromate				
	<b>-D</b> Receptacle, with Female Socket Contacts	<b>D</b> Receptacle, with Female Socket Contacts		<b>MT</b> Aluminum / Nickel-PTFE				
		<b>N</b> No Connector (Single-Ended)		<b>Z1</b> Stainless Steel / Passivated				

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## 801-031, -072, -032, and -073 Ordering Information

### Series 801 Cordsets with #16 Power Contacts

Series 801 Cordsets with #16 Power Contacts								
Sample Part Number								
801-031	-A	C	6	M	8-28	N	A	-36
Series	End A Connector	End B Connector	Wire Size	Shell Material/ Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length
<b>801-031</b> <b>Style 1</b> Polyurethane Cable Jacket, Polyamide Overmold #16 contacts	<b>-A</b> Plug, with Male Pin Contacts <b>-B</b> Plug, with Female Socket Contacts <b>-C</b>	<b>A</b> Plug, with Male Pin Contacts <b>B</b> Plug, with Female Socket Contacts <b>C</b> Receptacle, with Male Pin Contacts <b>D</b> Receptacle, with Female Socket Contacts <b>N</b> No Connector (Single-Ended)	<b>6</b> #16 AWG <b>8</b> #18 AWG	<b>M</b> Aluminum / Electroless Nickel <b>NF</b> Aluminum / Cadmium with OD Chromate <b>ZNU</b> Aluminum / Zinc- Nickel with Black Chromate <b>MT</b> Aluminum / Nickel-PTFE <b>Z1</b> Stainless Steel / Passivated	See Cont. Arr. Page D-2  Consult Factory for Combo Arr.	<b>P</b> Metal Protective Covers Included <b>N</b> No Covers Supplied	<b>A</b> = Normal <b>B</b> thru <b>H</b> and <b>J</b>  See page D-2	Overall Length In Inches 12 Inch Min.
<b>801-072</b> <b>Style 2</b> Rubber Cable Jacket and Rubber Overmold #16 Contacts	Receptacle, with Male Pin Contacts <b>-D</b> Receptacle, with Female Socket Contacts							

D

### Series 801 Cordsets with #12 Power Contacts

Series 801 Cordsets with #12 Power Contacts								
Sample Part Number								
801-032	-A	C	2	M	8-28	N	A	-36
Series	End A Connector	End B Connector	Wire Size	Shell Material / Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length
<b>801-032</b> <b>Style 1</b> Polyurethane Cable Jacket, Polyamide Overmold #12 contacts	<b>-A</b> Plug, with Male Pin Contacts <b>-B</b> Plug, with Female Socket Contacts <b>-C</b>	<b>A</b> Plug, with Male Pin Contacts <b>B</b> Plug, with Female Socket Contacts <b>C</b> Receptacle, with Male Pin Contacts <b>D</b> Receptacle, with Female Socket Contacts <b>N</b> No Connector (Single-Ended)	<b>2</b> #12 AWG <b>4</b> #14 AWG	<b>M</b> Aluminum / Electroless Nickel <b>NF</b> Aluminum / Cadmium with OD Chromate <b>ZNU</b> Aluminum / Zinc- Nickel with Black Chromate <b>MT</b> Aluminum / Nickel- PTFE <b>Z1</b> Stainless Steel / Passivated	See Cont. Arr. Page D-2  Consult Factory for Combo Arr.	<b>P</b> Metal Protective Covers Included <b>N</b> No Covers Supplied	<b>A</b> = Normal <b>B</b> thru <b>H</b> and <b>J</b>  See page D-2	Overall Length In Inches 12 Inch Min.
<b>801-073</b> <b>Style 2</b> Rubber Cable Jacket and Rubber Overmold #12 Contacts	Receptacle, with Male Pin Contacts <b>-D</b> Receptacle, with Female Socket Contacts							

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