Mighty Mouse Connectors and Cables

Shielded Cordsets, General Information

Series 805 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 M

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)	500 Vac
Insulation resistance	200 Megohms minimum
Shielding effectiveness	50 dB minimum from 100MHz to 1000MHz.

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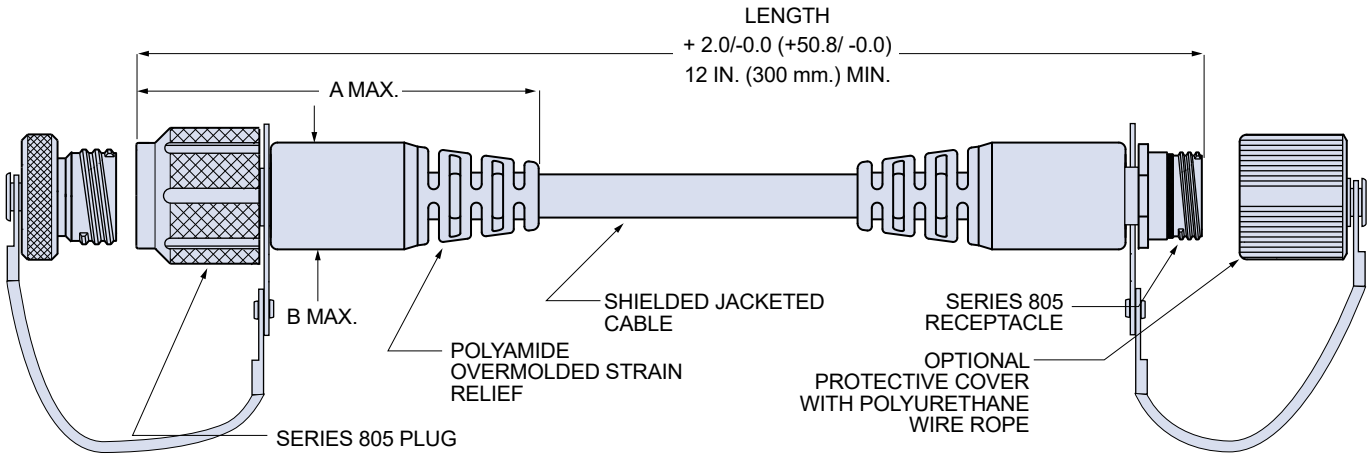
Mighty Mouse Connectors and Cables

Shielded Overmolded Harsh Environment Cordsets



Dimensions				
Shell Size	A Max.		B Max.	
	In.	mm.	In.	mm.
8	2.62	66.55	0.5	12.70
9	2.70	68.58	0.55	13.97
10	2.80	71.12	0.65	16.51
11	2.80	71.12	0.65	16.51
12	2.90	73.66	0.71	18.03
15	3.10	78.74	0.82	20.83
18	3.42	86.87	1.1	27.94
19	3.42	86.87	1.1	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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Shielded Overmolded Harsh Environment Cordsets

Series 805 Cordsets with #23 Contacts								
Sample Part Number								
805-009	**-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
805-009 Style 1 Polyurethane Cable Jacket, Polyamide Overmold **805-062** Style 2 Rubber Cable Jacket and Overmold	**-A** Plug, with Male Pin Contacts **-B** Plug, with Female Socket Contacts **-C** Receptacle, with Male Pin Contacts **-D** Receptacle, with Female Socket Contacts	**A** Plug, with Male Pin 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 **4** #24 AWG	**M** Aluminum / Electroless Nickel **NF** Aluminum / Cadmium with OD Chromate **ZNU** Aluminum / Zinc-Nickel with Black Chromate **MT** Aluminum / Nickel-PTFE **Z1** Stainless Steel / Passivated	See Insert Arr. page J-6	**P** Metal Protective Covers Included **N** No Covers Supplied	**A** Normal **B** Pos. B **C** Pos. C **D** Pos. D **E** Pos. E **F** Pos. F See key positions on page J-11	Overall Length In Inches 12 Inch Min.

Series 805 Cordsets with #20HD Contacts								
Sample Part Number								
805-063	**-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
805-018 Style 1 Polyurethane Cable Jacket, Polyamide Overmold **805-063** Style 2 Rubber Cable Jacket and Overmold,	**-A** Plug, with Male Pin Contacts **-B** Plug, with Female Socket Contacts **-C** Receptacle, with Male Pin Contacts **-D** Receptacle, with Female Socket Contacts	**A** Plug, with Male Pin Contacts **B** Plug, with Female Socket Contacts **C** Receptacle, with Male Pin Contacts **D** Receptacle, with Female Socket Contacts **N** No Connector (Single-Ended)	**0** #20 AWG **2** #22 AWG	**M** Aluminum / Electroless Nickel **NF** Aluminum / Cadmium with OD Chromate **ZNU** Aluminum / Zinc-Nickel with Black Chromate **MT** Aluminum / Nickel-PTFE **Z1** Stainless Steel / Passivated	See Insert Arr. page J-6	**P** Metal Protective Covers Included **N** No Covers Supplied	**A** Normal **B** Pos. B **C** Pos. C **D** Pos. D **E** Pos. E **F** Pos. F See key positions on page J-11	Overall Length In Inches 12 Inch Min.

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Shielded Overmolded Harsh Environment Cordsets

Series 805 Cordsets with #16 Contacts								
Sample Part Number								
805-015	**-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
805-015 Style 1 Polyurethane Cable Jacket, Polyamide Overmold **805-064** Style 2 Rubber Cable Jacket and Overmold	**-A** Plug, with Male Pin Contacts **-B** Plug, with Female Socket Contacts **-C** Receptacle, with Male Pin Contacts **-D** Receptacle, with Female Socket Contacts	**A** Plug, with Male Pin Contacts **B** Plug, with Female Socket Contacts **C** Receptacle, with Male Pin Contacts **D** Receptacle, with Female Socket Contacts **N** No Connector (Single-Ended)	**6** #16 AWG **8** #18 AWG	**M** Aluminum / Electroless Nickel **NF** Aluminum / Cadmium with OD Chromate **ZNU** Aluminum / Zinc-Nickel with Black Chromate **MT** Aluminum / Nickel-PTFE **Z1** Stainless Steel / Passivated	Available in Shell Sizes **8** Thru **19** See Cont. Arr. Page J-6	**P** Metal Protective Covers Included **N** No Covers Supplied	**A** Normal **B** Pos. B **C** Pos. C **D** Pos. D **E** Pos. E **F** Pos. F See key positions on page J-11	Overall Length In Inches 12 Inch Min.

Series 805 Cordsets with #12 Contacts								
Sample Part Number								
805-065	**-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
805-016 Style 1 Polyurethane Cable Jacket, Polyamide Overmold **805-065** Style 2 Rubber Cable Jacket and Overmold,	**-A** Plug, with Male Pin Contacts **-B** Plug, with Female Socket Contacts **-C** Receptacle, with Male Pin Contacts **-D** Receptacle, with Female Socket Contacts	**A** Plug, with Male Pin 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** #12 AWG **4** #14 AWG	**M** Aluminum / Electroless Nickel **NF** Aluminum / Cadmium with OD Chromate **ZNU** Aluminum / Zinc-Nickel with Black Chromate **MT** Aluminum / Nickel-PTFE **Z1** Stainless Steel / Passivated	Available in Shell Sizes **8** Thru **19** See Cont. Arr. Page J-6	**P** Metal Protective Covers Included **N** No Covers Supplied	**A** Normal **B** Pos. B **C** Pos. C **D** Pos. D **E** Pos. E **F** Pos. F See key positions on page J-11	Overall Length In Inches 12 Inch Min.

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Series 805 Ultraflexible “Phantom Cable” Cordsets

Phantom Cable cordsets feature high-flex rubber-insulated wires, lightweight shield, and overbraided jackets for maximum flexibility, reduced size and minimum weight. Flexible rubber overmold provides strain relief and environmental sealing. EMI shield options include high-strength, ultralightweight AmberStrand® nickel-coated composite braid, ArmorLite™ or lightweight, high flexibility tinned copper braid. Braid outer jackets are available with NOMEX®, HALAR®, or PTFE-coated fiberglass.

Product Features

- Overbraided cable jacket for excellent flexibility
- Ultra-lightweight AmberStrand® EMI shield
- 100% electrically tested
- Flexible to -55°C.
- Stainless steel shield termination band

Application Note

Overbraided textile jackets are ideal for applications where flexibility and weight are important. However, water can penetrate through the jacket and cable shield. Dust and contamination can also become entrapped in the braid. Braided jackets are prone to fraying damage caused by snagging on velcro closures and MOLLE vests. Extruded cable jackets are recommended if debris entrapment, moisture ingress, or fraying damage are concerns.

Braid Shield Selection Guide

Property	AmberStrand®	ArmorLite®	Copper
Type	nickel-coated high-strength super fiber	Micro-filament nickel-coated stainless steel	Tin-coated copper
Weight/ft. (0.5 in. ID)	3.7 grams	4.4 grams	22.3 grams
Operating Temp(1)	-65° C to +200° C	-80° C to +260° C	-80° C to +150° C
Coverage	90% min.	90% min.	90% min.
Flexibility	Excellent	Excellent	Good
Cost Comparison	$$$	$$	$
(1) Rubber wires and rubber overmold are rated for -55° C to +135° C.			

Jacket Selection Guide

Property	NOMEX®	HALAR®	PTFE Coated Fiberglass
Color	Black or olive drab	Black	Tan
Operating Temp(1)	-55° C to +260° C	-73° C to +150° C	-75° C to +300° C
Chemical Resistance	Excellent	Excellent	Excellent
Flammability	Self-extinguishing, will not melt	Fire retardant UL VW-1	Self-extinguishing
Toxicity	Non-toxic	Non-toxic	Non-toxic
Flexibility	Excellent	Excellent	Excellent
Abrasion resistance	Excellent	Excellent	Excellent
(1) Rubber wires and rubber overmold are rated for -55° C to +135° C.			

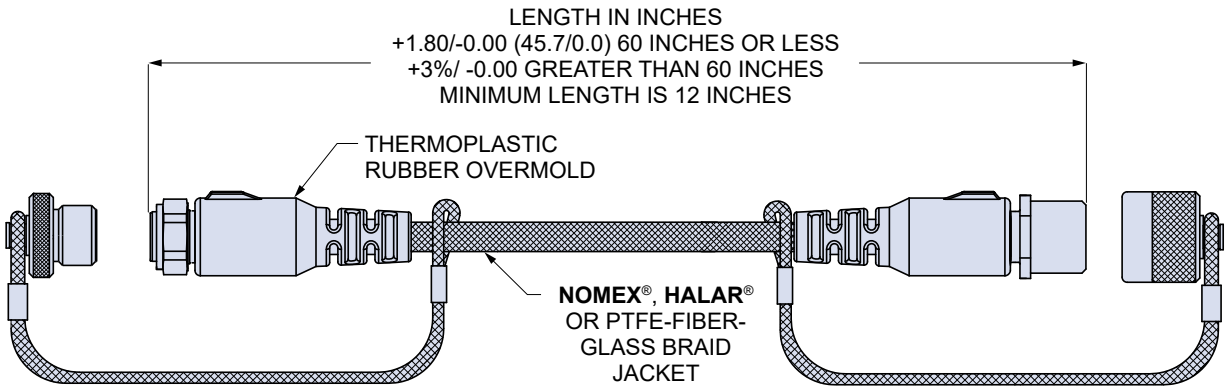
Specifications

Cable jacket	NOMEX®, HALAR® or PTFE-coated fiberglass
Temperature Range	-55° C to +135° C
Overmold	Thermoplastic elastomer, black
Cable shield	AmberStrand®, ArmorLite® or tinned copper, 90% minimum coverage
Conductors	Silver coated stranded wire, rubber insulation
Shield Termination	Band-Master™ ATS stainless steel shield termination band
Current rating	5 amps
Test voltage (DWV)	500 Vac
Insulation resistance	200 Megohms minimum
Shielding effectiveness	50 dB minimum from 100MHz to 1000MHz.

Mighty Mouse Connectors and Cables

Flexible, Lightweight Shielded Phantom Cable Cordsets

Series 805 "Phantom Cable" Cordsets size #12 thru #23 Contacts										
Sample Part Number										
805-057	**-B**	**N**	**2**	**Z1**	**5-3**	**N**	**A**	**-60**	**C**	**N**
Series	End A Connector	End B Connector	Wire Size	Shell Material/ Finish	Insert Arr.	Protective Cover	Shell Key Position	Length	Shield Option	Jacket Option
Size #23 Contacts **805-057** Phantom Cable Cordset Size #20 HD Contacts **805-058** Phantom Cable Cordset Size #16 Contacts **805-059** Phantom Cable Cordset Size #12 Contacts **805-060** Phantom Cable Cordset	**-A** Plug, with Male Pin Contacts **-B** Plug, with Female Socket Contacts **-C** Rec. with Male Pin Contacts **-D** Rec. with Female Socket Contacts	**A** Plug, with Male Pin Contacts **B** Plug, with Female Socket Contacts **C** Rec. with Male Pin Contacts **D** Rec. with Female Socket Contacts **N** No Connector (Single-Ended)	Size #23 Contacts **4** #24 AWG **6** #26 AWG **8** #28 AWG Size #20 HD Contacts **0** #20 AWG **2** #22 AWG Size #16 Contacts **6** #16 AWG **8** #18 AWG Size #12 Contacts **2** #12 AWG **4** #14 AWG	**M** Aluminum / Electroless Nickel **NF** Aluminum / Cadmium with OD Chromate **ZNU** |Aluminum / Zinc-Nickel with Black Chromate **MT** Aluminum / Nickel-PTFE **Z1** Stainless Steel / Passivated	Available in Shell Sizes **8** Thru **19** See Cont. Arr. Page J-6	**P** Metal Protective Covers Included **N** No Covers Supplied	**A** Normal **B** Pos. B **C** Pos. C **D** Pos. D **E** Pos. E **F** Pos. F See key positions on page J-11	Overall Length In Inches 12 Inch Min.	**A** AmberStrand **B** ArmorLite **C** Tin-Coated Copper	**D** Nomex, Olive Drab **N** Nomex, Black **H** Halar (Monofil) **P** Peek (Monofil)



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 TPE insulation, 600V, UL VW-1 rated.
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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