

SERIES 800 UN THREAD MATING Mighty Mouse Connectors and Cables



Series 800 Mighty Mouse Overmolded 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.

Product Features

- Single-ended or doubleended
- 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
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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 s	alvents fuels and ails noor resist	ance to strong acids and hinglar					

(1) Excellent resistance to most solvents, fuels, and oils; poor resistance to strong acids and bipolar solvents (alcohol)

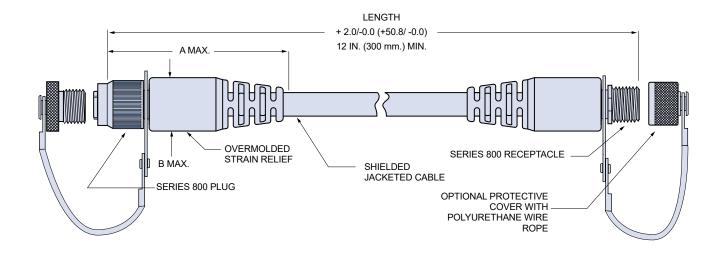
Specifications						
Cable jacket	Style 1: thermoplastic polyurethane, black, low-smoke, zero-halogen Style 2: thermoplastic elastomer, black					
Overmold	Style 1: polyamide Style 2: thermoplastic elastomer, black					
Cable shield	Tin-coated copper braid, 90% minimum coverage					
Conductors	Silver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



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Series 800 Mighty Mouse **Overmolded Cordsets**



	Dimensions										
Shell	A M	1ax.	B M	lax.							
Size	ln.	mm.	ln.	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.



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Series 800 Mighty Mouse **Overmolded Cordsets**

	Series 800 Cordsets with #23 Contacts												
	Sample Part Number												
800-034	-A C K 2 M 8-28 N X												
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 800-056 Style 2 Rubber Cable Jacket and Rubber Overmold, #23 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	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)	K Round Knurled Coupling Nut KL Round Knurled Coupling Nut, Self-Locking H Hex Coupling Nut HL Hex Coupling Nut, Self- Locking N Receptacle Cable	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 Cont. Arr. Page D-4 Consult Factory for Combo Arr.	P Metal Protective Covers Included N No Covers Supplied	N Normal X Pos. X Y Pos. Y Z Pos. Z See page D-7	Overall Length In Inches 12 Inch Min.				

	Series 800 Cordsets with #20HD Contacts										
Sample Part Number											
800-041	-A	С	K	0	M	8-28	N	X	-36		
	End A	End B		Wire	Shell Material /		Protective	Shell Key			
Series	Connector	Connector	Plug Style	Size	Finish	Insert Arr.	Cover	Pos.	Length		
800-041	-A	A	K	0	M	See Cont.	P	N	Overall		
Style 1	Plug, with Male	Plug, with Male	Round Knurled	#20	Aluminum /	Arr. page	Metal	Normal	Length		
Polyurethane	Pin Contacts	Pin Contacts	Coupling Nut	AWG	Electroless Nickel	D-4	Protective	X	In Inches		
Cable Jacket,	-B	В	KL	2	NF		Covers	Pos. X	12 Inch		
Polyamide	Plug, with	Plug, with	Round Knurled	#22	Aluminum /	Consult	Included	Y	Min.		
Overmold,	Female Socket	Female Socket	Coupling Nut,	AWG	Cadmium with	Factory for	N	Pos. Y			
#20HD	Contacts	Contacts	Self-Locking		OD Chromate	Combo Arr.	No Covers	Z			
Contacts	-C	C	H		ZNU		Supplied	Pos. Z			
800-057	Receptacle,	Receptacle,	Hex Coupling		Aluminum / Zinc-						
Style 2	with Male Pin	with Male Pin	Nut		Nickel with Black			See page			
Rubber	Contacts	Contacts	HL		Chromate			D-7			
Cable Jacket	-D	D	Hex Coupling		MT						
and Rubber	Receptacle, with	Receptacle, with	Nut, Self-		Aluminum /						
Overmold,	Female Socket	Female Socket	Locking		Nickel-PTFE						
	Contacts	Contacts	N		Z1						
		N	Receptacle		Stainless Steel /						
		No Connector	Cable		Passivated						
		(Single-Ended)									



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Series 800 Mighty Mouse **Overmolded Cordsets**

	Series 800 Cordsets with #16 Power Contacts										
	Sample Part Number										
800-038	-A	С	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	-A	A	K	6	M	See Cont.	P	N	Overall		
Style 1	Plug, with Male	Plug, with Male	Round Knurled	#16	Aluminum /	Arr. Page	Metal	Normal	Length		
Polyurethane	Pin Contacts	Pin Contacts	Coupling Nut	AWG	Electroless Nickel	D-4	Protective	X	In		
Cable Jacket,	-B	В	KL	8	NF		Covers	Pos. X	Inches		
Polyamide	Plug, with	Plug, with	Round Knurled	#18	Aluminum /	Consult	Included	Υ			
Overmold, #16	Female Socket	Female Socket	Coupling Nut,	AWG	Cadmium with	Factory	N	Pos. Y	12 Inch		
Contacts	Contacts	Contacts	Self-Locking		OD Chromate	for	No Covers	Z	Min.		
800-058	-C	C	H		ZNU	Combo	Supplied	Pos. Z			
Style 2	Receptacle,	Receptacle,	Hex Coupling		Aluminum / Zinc-	Arr.					
Rubber	with Male Pin	with Male Pin	Nut		Nickel with Black			See page D-7			
Cable Jacket	Contacts	Contacts	HL		Chromate						
and Rubber	-D	D	Hex Coupling		MT						
Overmold, #16	Receptacle,	Receptacle, with	Nut, Self-		Aluminum /						
Contacts	with Female	Female Socket	Locking		Nickel-PTFE						
	Socket Contacts	Contacts	N		Z1						
		N	Receptacle		Stainless Steel /						
		No Connector (Single-Ended)	Cable		Passivated						

	Series 800 Cordsets with #12 Power Contacts											
	Sample Part Number											
800-039	-A C K 2 M 8-2 N X						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	-A	A	K	2	M	See Cont.	P	N	Overall			
Style 1	Plug, with Male	Plug, with Male	Round Knurled	#12	Aluminum /	Arr. Page	Metal	Normal	Length			
Polyurethane	Pin Contacts	Pin Contacts	Coupling Nut	AWG	Electroless Nickel	D-4	Protective	X	In Inches			
Cable Jacket,	-В	В	KL	4	NF		Covers	Pos. X				
Polyamide	Plug, with	Plug, with	Round Knurled	#14	Aluminum /	Consult	Included	Y	12 Inch			
Overmold, #12	Female Socket	Female Socket	Coupling Nut,	AWG	Cadmium with	Factory	N	Pos. Y	Min.			
Contacts	Contacts	Contacts	Self-Locking		OD Chromate	for	No Covers	Z				
800-059	-C	C	H		ZNU	Combo	Supplied	Pos. Z				
Style 2	Receptacle,	Receptacle,	Hex Coupling		Aluminum / Zinc-	Arr.						
Rubber	with Male Pin	with Male Pin	Nut		Nickel with Black			See page D-7				
Cable Jacket	Contacts	Contacts	HL		Chromate							
and Rubber	-D	D	Hex Coupling		MT							
Overmold, #12	Receptacle,	Receptacle, with	Nut, Self-		Aluminum /							
Contacts	with Female	Female Socket	Locking		Nickel-PTFE							
	Socket	Contacts	N		Z1							
	Contacts	N	Receptacle		Stainless Steel /							
		No Connector (Single-Ended)	Cable		Passivated							



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Flexible, Lightweight 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. Available for all Mighty Mouse layouts with size #23 contacts, these cordsets are available with #24 through #28 AWG wire. EMI shield options include high-strength, ultralightweight **AmberStrand**, nickel-coated composite braid **ArmorLite** or lightweight, highly flexibible 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							
Туре	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) Rubbe	er wires and rubber overn	nold are rated for -55 º 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) Rubbo	er wires and rubber overn	nold 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.					



SERIES 800 UN THREAD MATING

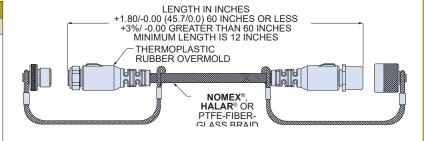
Mighty Mouse Connectors and Cables



Flexible, Lightweight Phantom Cable Cordsets

Series Connector Connector Size #23 A			Serie	s 800 "Pha	antom Cable" (Cordsets s	ize #12 thru	#23 Contacts			
Series Connector Connector Connector Size #23 Contacts					Sample	Part Numb	er				
Series Connector Connector Connector Size #23 A	800-053	-B	N	0	Z 1	5-3	N	X	-60	C	N
Size #23		End A	End B			Insert	Protective			Shield	Jacket
Contacts 800-052 Male Pin Contacts Contacts Contacts Cordset Plug, with Pemale Socket Contacts Contact	Series	Connector	Connector	Wire Size	Finish	Arr.	Cover	Shell Key Pos.	Length	Option	Option
Robin Contacts Phantom Cable Cordset Pemale Socket Contacts Pin Contacts	Size #23			Size #23	1	See Cont.	-		Overall		N
Phantom Cable Cordset B Plug, with Female Socket #20 HD Contacts 800-053 Phantom Cable Cordset #30 HD Contacts 800-054 Phantom Cable Cordset Size #16 Contacts 800-054 Phantom Cable Cordset Size #16 Contacts 800-055 B N Rec. with Female Socket Contacts N Rec. with Remale Socket Contacts N Rec. with Rec. with Remale Socket Contacts N Rec. with		J,	J,			-		Normal	Length	AmberStrand	Nomex
Cable Cordset -B -B -B -Plug, with Female Socket #20 HD Contacts 800-053 Phantom Cable Cordset -D Rec. with Male Pin Contacts 800-054 Phantom Cable Cordset Size #16 Contacts 800-055 Phantom Cable Cordset Size #12 Contacts 800-055 Phantom Cable Cordset -B				-		D-4			1		
Cordset -B Plug, with Female Socket Contacts Contacts 800-053 Phantom Cable Cordset Size #12 Contacts 800-055 Phantom Cable Size #12 Contacts 800-055 Phantom Cable Size #12 Contacts 800-055 Phantom Cable		Contacts	Contacts		Nickel					_	
Plug, with Female Socket #20 HD Contacts		_		-			Included	Pos. X		ArmorLite	
Female Socket #20 HD Contacts Female Socket #20 HD Contacts Female Socket Contacts Femal	Cordset	_	_	#24 AWG		,			Min.		(Monofil)
#20 HD Contacts 800-053 Phantom Cable Contacts 800-054 Phantom Cable Cordset Size #12 Cordset Size #12 Contacts 800-055 Phantom Cable Cordset Size #12 Contacts 800-055 Phantom Cable Cordset Size #12 Contacts 800-055 Phantom Cable Cordset Contacts Contacts #20 HD Contacts 0 #20 HD Contacts 0 #20 AWG Pack With Male Pin Contacts 2 #20 AWG Pin Contacts 0 Pos. Z Stae Table II Stainless Steel 1 Passivated 0 Pin Contacts 0	c:	J,	J	C:			1	=		_	
Contacts 800-053 Phantom Cable Cordset Size #16 Contacts 800-054 Phantom Cable Cordset Size #16 Contacts 800-054 Phantom Cable Cordset Size #12 Contacts 800-055 Phantom Cable Cordset Size #12 Contacts 800-055 Phantom Cable Cordset Size #12 Contacts Contacts Contacts Contacts Contacts Contacts Contacts Contacts D Rec. with Male #20 AWG 2 / Zinc-Nickel with Black Chromate Contacts MT Aluminum / Nickel-PTFE Size #12 Contacts N N No Connector (Single- Ended) Size #12 Contacts Size #12 Contacts Pos. Z Aluminum / Aluminum / Nickel-PTFE Stainless Steel / Passivated Contacts Pos. Z See Table II Stize #16 Contacts MT Aluminum / Nickel-PTFE Stainless Steel / Passivated								POS. Y			-
Phantom Cable Cordset Size #16 Contacts 800-054 Phantom Cable Cordset Cordset Size #12 Contacts 800-055 Phantom Cable Cordset Size #12 Contacts 800-055 Phantom Cable Cordset Co		Contacts	Contacts		OD Chromate	AII.	Supplied	7		Copper	
Phantom Cable Cordset Size #16 Contacts 800-054 Phantom Cable Cordset Size #12 Contacts 800-055 Phantom Cable Cordset Size #12 Contacts 800-055 Phantom Cable Cordset Rec. with Male Pin Contacts Pin Contacts Pin Contacts #20 AWG 2		-c	_		7NII						(MOHOH)
Cable Cordset Pin Contacts P		_	_	•				F 03. Z			
Cordset Size #16 Contacts 800-054 Phantom Cable Cordset Size #12 Contacts 800-055 Phantom Cable Contacts 800-055 Phantom Cable Cordset Size #12 Contacts #22 AWG Size #16 Contacts Bec. with Female Socket Contacts 6 MT Aluminum / Nickel-PTFE #18 AWG Size #12 Contacts #22 AWG Chromate Contacts #16 AWG Back Chromate Contacts #16 AWG Size #12 Contacts #18 AWG Passivated Size #12 Contacts #18 AWG Passivated					'			See Table II			
Size #16 Contacts 800-054 Phantom Cable Cordset Size #12 Contacts 800-055 Phantom Cable Cordset Size #16 Contacts Size #16 Contacts Size #16 Contacts Size #16 Contacts MT Aluminum / Nickel-PTFE #18 AWG No Connector (Single- Ended) Size #12 Contacts Size #12 Contacts Size #12 Contacts Aluminum / Nickel-PTFE Stainless Steel / Passivated		Till Contacts	- I'll contacts	_				See rable ii			
Contacts 800-054 Phantom Cable Cordset Size #12 Contacts 800-055 Phantom Cable Cordset Size #12 Contacts 800-055 Phantom Cable Cordset Rec. with Female Socket Contacts 6 #16 AWG 8 #18 AWG No Connector (Single- Ended) Size #12 Contacts 800-055 Phantom Cable Rec. with Female Socket Contacts 6 #16 AWG 8 #18 AWG Size #12 Contacts 4 Size #12 Contacts 2 #12 AWG 4		-D	D								
800-054 Phantom Cable Cordset N No Connector (Single- Contacts 800-055 Phantom Cable Contacts Pemale Socket Contacts #16 AWG 8 #18 AWG Size #12 Contacts 800-055 Phantom Cable MT Aluminum / Nickel-PTFE Z1 Stainless Steel / Passivated Passivated		Rec. with	Rec. with								
Phantom Cable Cordset N No Connector (Single- Contacts 800-055 Phantom Cable Contacts Contacts #16 AWG 8 #18 AWG #18 AWG Size #12 Contacts 2 #12 AWG 4 Aluminum / Nickel-PTFE Z1 Stainless Steel / Passivated		Female Socket	Female Socket		MT						
Cable Cordset N No Connector (Single- Contacts 800-055 Phantom Cable Nickel-PTFE Z1 Stainless Steel / Passivated Nickel-PTFE Z1 Stainless Steel / Passivated		Contacts	Contacts	#16 AWG	Aluminum /						
Size #12 (Single- Size #12 Contacts 800-055 Phantom Cable Size #12 AWG					Nickel-PTFE						
Size #12 Contacts 800-055 Phantom Cable (Single- Ended) Size #12 Contacts 4 Stainless Steel / Passivated	Cordset			#18 AWG							
Contacts 800-055 Phantom Cable Ended) Contacts 2 #12 AWG 4			No Connector] — -						
800-055 Phantom Cable #12 AWG	Size #12		'	Size #12							
Phantom #12 AWG Cable #12 AWG	Contacts		Ended)	Contacts	/ Passivated						
Cable 4				_							
Cordsot #14 ANAC				_							
Cordset #14 AWG	Cordset			#14 AWG							

Table II: Shell Key Positions (See Note 1 and 2)	
Shell Size 5 and 6	Shell Size 7 thru 12
NORMAL X° Z°	60° X° NORMAL
Key Position	Key Rotation
N Normal	150°
X	140°
Υ	130°
Z	120°



NOTES

- Shell sizes 5 thru 6: master key is located at top dead center (TDC) for normal (N) position.
- 2. Shell size 7 thru 12: master key is rotated 90° from TDC for normal position Double-ended cordsets are wired pin #1 to pin #1, #2 to #2, and so on.
- 3. Wires are silver-coated stranded copper with TPE insulation, 600V, UL VW-1 rated.
- Wires are white with color stripe per MIL-STD-681. Wire #1 is WHT/BLK, wire #2 is WHT/BRN, etc.