



Overmolded Harsh Environment Cordsets

SERIES 801 HARSH ENVIRONMENT SHIELDED CORDSETS



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

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.

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.

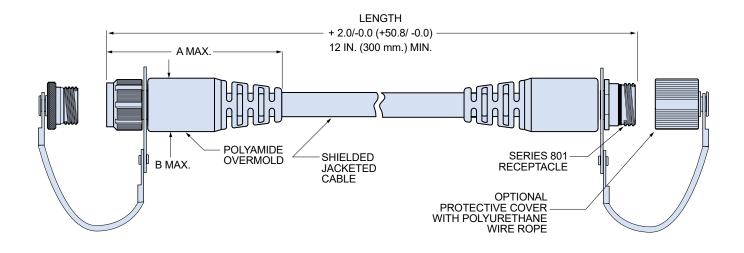
Harsh Environment Cordset Selection Guide									
	Style 1	Style 2							
Property	Polyurethane Jacket Polyamide Overmold	Rubber Jacket Rubber Overmold							
Cable jacket	Thermoplastic polyurethane (TPU), black	Thermoplastic elastomer (TPV), black							
Overmold	Polyamide, black	Thermoplastic elastomer (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 solvents (alcohol)	(1) Excellent resistance to most solvents, fuels, and oils; poor resistance to strong acids and bipolar solvents (alcohol)								

Specifications						
Cable indust	Style 1: thermoplastic polyurethane, black, low-smoke, zero-halogen					
Cable jacket	Style 2: thermoplastic elastomer, black					
Overmold	Style 1: polyamide					
Overmoid	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.					





Overmolded Harsh Environment Cordsets



Dimensions								
Shell	AN	lax.	B Max.					
Size	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				





Overmolded Harsh Environment Cordsets

	Series 801 Cordsets with #23 Contacts									
Sample Part Number										
801-026	- A	С	4	M	8-28	N	Α	-36		
Series	End A Connector	End B Connector	Wire Size	Shell Material/ Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length		
801-026 Style 1 Polyurethane Cable Jacket, Polyamide Overmold #23 Contacts 801-070 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	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 /	See Cont. Arr. Page E-7 Consult Factory for Combo Arr.	P Metal Protective Covers Included N No Covers Supplied	A Normal B Pos. B C Pos. C D Pos. C D Pos. D E Pos. E F Pos. F See page E-11	Overall Length In Inches 12 Inch Min.		

	Series 801 Cordsets with #20HD Contacts										
	Sample Part Number										
801-034	- A	С	0	М	8-28	N	Α	-36			
Series	End A Connector	End B Connector	Wire Size	Shell Material / Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length			
801-034 Style 1 Polyurethane Cable Jacket, Polyamide Overmold #20HD Contacts 801-071 Style 2 Rubber Cable Jacket and Rubber Overmold #20HD 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)	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 Cont. Arr. Page E-7 Consult Factory for Combo Arr.	P Metal Protective Covers Included N No Covers Supplied	A Normal B Pos. B C Pos. C D Pos. C E Pos. E F Pos. F See page E-11	Overall Length In Inches 12 Inch Min.			





Overmolded Harsh Environment Cordsets

	Series 801 Cordsets with #16 Power Contacts									
	Sample Part Number									
801-031	-A	С	6	M	8-28	N	Α	-36		
Series	End A Connector	End B Connector	Wire Size	Shell Material/ Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length		
801-031 Style 1 Polyurethane Cable Jacket, Polyamide Overmold #16 contacts 801-072 Style 2 Rubber Cable Jacket and Rubber Overmold #16 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)	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	See Cont. Arr. Page E-7 Consult Factory for Combo Arr.	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 page E-11	Overall Length In Inches 12 Inch Min.		

	Series 801 Cordsets with #12 Power Contacts									
	Sample Part Number									
801-032	-A	С	2	М	8-28	N	Α	-36		
Series	End A Connector	End B Connector	Wire Size	Shell Material / Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length		
801-032 Style 1 Polyurethane Cable Jacket, Polyamide Overmold #12 contacts 801-073 Style 2 Rubber Cable Jacket and Rubber Overmold #12 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)	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	See Cont. Arr. Page E-7 Consult Factory for Combo Arr.	P Metal Protective Covers Included N No Covers Supplied	A Normal B Pos. B C Pos. C D Pos. C Pos. D E Pos. E F Pos. F See page E-11	Overall Length In Inches 12 Inch Min.		

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Flexible, Lightweight Phantom Cable Cordsets

SERIES 801 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.

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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) 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	-73º C to +150º C	-75º C to +300º 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.					

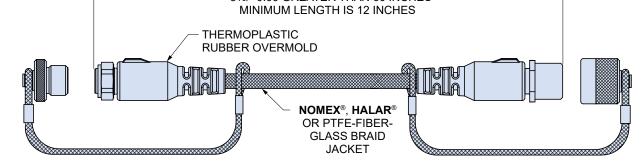




Flexible, Lightweight Phantom Cable Cordsets

	Series 801 "Phantom Cable" Cordsets size #12 thru #23 Contacts									
	Sample Part Number									
801-065	-В	N	2	Z1	5-3	Ν	Α	-60	С	N
Series	End A Connector	End B Connector	Wire Size	Shell Material/ Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length	Shield Option	Jacket Option
Size #23 Contacts 801-065 Phantom Cable Cordset	-A Plug, with Male Pin Contacts -B Plug, with Female Socket Contacts	A Plug, with Male Pin Contacts B Plug, with Female Socket Contacts	Size #23 Contacts 4 #24 AWG 6 #26 AWG 8 #28 AWG	M Aluminum / Electroless Nickel NF Aluminum / Cadmium with OD Chromate ZNU	See Cont. Arr. Page E-7 Consult Factory for Combo Arr.	P Metal Protective Covers Included N No Covers Supplied	A Normal B Pos. B C Pos. C D Pos. D	Overall Length In Inches 12 Inch Min.	A AmberStrand B ArmorLite C Tin-Coated Copper	D Nomex, Olive Drab N Nomex, Black H
Size #20 HD Contacts 801-066 Phantom Cable Cordset	Rec. with Male Pin Contacts -D Rec. with	Rec. with Male Pin Contacts D Rec. with Female Socket Contacts N	Size #20 HD Contacts 0 #20 AWG 2 #22 AWG	Aluminum / Zinc-Nickel with Black Chromate MT Aluminum / Nickel-PTFE			E Pos. E F Pos. F See page E-11			Halar (Monofil, Black) P PTFE- Glass (Natural/
Size #16 Contacts 801-067 Phantom Cable Cordset		No Connector (Single- Ended)	Size #16 Contacts 6 #16 AWG 8 #18 AWG	Z1 Stainless Steel / Passivated						(Naturai) Tan)
Size #12 Contacts 801-068 Phantom Cable Cordset			Size #12 Contacts 2 #12 AWG 4 #14 AWG							

LENGTH IN INCHES +1.80/-0.00 (45.7/0.0) 60 INCHES OR LESS +3%/ -0.00 GREATER THAN 60 INCHES



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. Wires are white with color stripe per MIL-STD-681. Wire #1 is WHT/BLK, wire #2 is WHT/BRN, etc.