

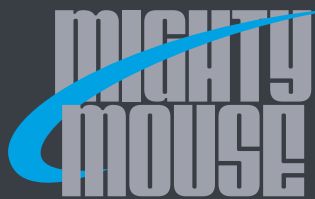


Series 80 Mighty Mouse

Mighty Mouse-to-Mighty Mouse Connector Cordsets and Single-Ended Pigtails

SERIES 80 MIGHTY MOUSE CORDSETS

How To Order	
Sample Part Number	801-024 B F P A C M P Z -72
Connector Series	<p>800-035 = Series 800 Cordset, UNF Threaded Coupling, Hex Nut</p> <p>801-024 = Series 801 Cordset, Double-Start Threaded Coupling</p> <p>803-007 = Series 803 Cordset, Push-Pull With Bayonet Lock Coupling</p> <p>804-013 = Series 804 Cordset, Quick-Disconnect Push-Pull</p> <p>805-007 = Series 805 Cordset, Tri-Start Threaded Coupling with Ratchet and Ground Spring</p>
Cable	<p>A = 100BASE-T Ethernet 4 Cond. UTP, OAL Shield 4 Pin Connector</p> <p>B = 100BASE-T Ethernet Quad, OAL Shield, 4 Pin Connector</p> <p>C = 1000BASE-T Gigabit Ethernet 8 Cond. UTP, OAL Shield, 10 Pin Connector</p> <p>D = IEEE 1394 High-Speed Quad 110 Ohm, 4 Pin Connector</p> <p>E = USB 2.0, Two #22 Power, One STP #26</p> <p>F = Two STP, 100 Ohm, OAL Shield, 4 Pin Connector</p> <p>G = Four STP, 100 Ohm, OAL Shield, 10 Pin Connector</p>
Cable Jacket	<p>F = FEP Fluorocarbon Jacket, Translucent Blue</p> <p>P = Low Smoke/ Zero Halogen Polyurethane Jacket, Black</p>
Strain Relief	<p>P = Polyamide Overmold</p> <p>B = Metal Backshell</p> <p>H = Heat-Shrink Boot, Low Smoke/ Zero Halogen</p>
Connector End A P1	<p>A = Plug, with Male Pin Contacts C = Receptacle, with Male Pin Contacts</p> <p>B = Plug, with Female Socket Contacts D = Receptacle, with Female Socket Contacts</p>
Connector End B P2	<p>A = Plug, with Male Pin Contacts D = Receptacle, with Female Socket Contacts</p> <p>B = Plug, with Female Socket Contacts N = No Connector (Single-Ended)</p> <p>C = Receptacle, with Male Pin Contacts</p>
Shell Material / Finish	<p>M = Aluminum/Electroless Nickel</p> <p>NF = Aluminum/Cadmium with Olive Drab Chromate</p> <p>ZN = Aluminum/Zinc-Nickel with Olive Drab Chromate</p> <p>ZNU = Aluminum/Zinc-Nickel with Black Chromate</p> <p>Z1 = Stainless Steel/Passivated</p>
Protective Cover	<p>P = Metal Protective Covers Included</p> <p>N = No Covers Supplied</p>
Shell Pol. Pos.	<p>Polarizing position depends on the connector series</p> <p>For Series 800 and 803: N = Normal X, Y, Z</p> <p>For Series 801 and 805: A = Normal B, C, D</p> <p>For Series 804: Omit for Single Master Key A = Normal B, C, D</p>
Overall Length	Overall Length In Inches 12 Inch Min.



Series 80 Mighty Mouse

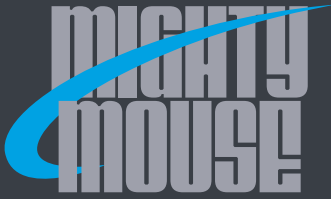
Mighty Mouse-to-Mighty Mouse Connector Cordsets and Single-Ended Pigtails

Table 2: Cable Specifications							
Cable Code	A	B	C	D	E	F	G
Cable Type	100BASE-T	100BASE-T	1000BASE-T	IEEE 1394	USB 2.0	100 Ω STP	100 Ω STP
Construction	UTP	Quad	UTP	Quad	STP	STP	STP
Number of Pairs	2	-	4	-	1	2	4
Number of Conductors	4	4	8	4	4	4	8
Conductor AWG	24	24	24	24	26 & 22	26	26
Conductor Material	SCCA	SCCA	SCCA	SCCA	SCCA	SCCA	SCCA
Conductor Insulation	FEP	FEP	FEP	FEP	FEP	FEP	FEP
Inner Shield	AM	AM	AM	AM	SCCB	AM	AM
Outer Shield	SCCB	SCCB	SCCB	SCCB	SCCB	SCCB	SCCB
Shield Coverage	95% Min.	95% Min.	95% Min.	95%	95%	95%	95%
Impedance	100 ± 10 Ω	100 ± 10 Ω	100 ± 10 Ω	110 ± 7 Ω	90 ± 13 Ω	100 ± 10 Ω	100 ± 10 Ω
Capacitance (pF/ft.)	13.0	13.0	14.5	12.5	13.0	13.0	13.0
Propagation Velocity	80%	80%	70%	80%	70%	80%	80%
Attenuation (dB/100 ft.) 10MHz	3.1	3.1	3.1	2.9			
Attenuation dB/100 ft. 100 MHz	8.0	8.0	8.0	7.5			
Attenuation (dB/100 ft.) 500 MHz	-	-	-	15.5			
Attenuation (dB/100 ft.) 1GHz	-	-	-	22.5			
Near-End Crosstalk dB @10MHz	47	47	47.0	47.0			
Near-End Crosstalk dB @100MHz	32	32	32.0	32.0			
Dielectric Withstanding Voltage	1500 VAC	1500 VAC	1500 VAC	1500 VAC	1500 VAC	1500 VAC	1500 VAC

AM – Aluminum Mylar SCCA – Silver-Coated Copper Alloy SCCB – Silver-Coated Copper Braid.
Attenuation values are nominal. Crosstalk values are minimum.

Table 3: Cable Jacket Performance Characteristics				
Jacket Code	F		P	
Jacket Material	Extruded FEP		Low Smoke/ Zero Halogen Polyurethane	
Typical Use	Airframe, Avionics, Missile		Dismounted Soldier, Shipboard, Armored Vehicle, Railcar	
UL Rating	94 V-0		94 V-0	
FAA Flammability	FAR 25.853(a) FAR 25.869(a)(4)		FAR 25.853(a)	
Temperature Range	-65° to +200° C.		-30 to +105° C.	
Resistance to Solvents	Excellent		Excellent	
Flexibility	Good		Excellent	
Abrasion Resistance	Excellent		Excellent	
Color	Translucent Blue		Black	
Smoke Index NES 711			24	
Toxicity Index NES 713			3.9	
Oxygen Index ASTM D-2863	95%		28%	
Overall Cable Diameter	Cable Code	Diameter	Cable Code	Diameter
	A	.210 (5.33)	A	.238 (6.05)
	B	.175 (4.45)	B	.218 (5.54)
	C	.265 (6.73)	C	.311 (7.90)
	D	.190 (4.83)	D	.236 (5.99)
	E	.200 (5.08)	E	.250 (6.35)
	F	.250 (6.35)	F	.300 (7.62)
G	.298 (7.57)	G	.344 (2.18)	



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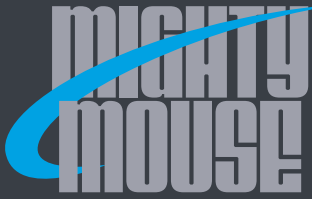
Series 80 Mighty Mouse

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Table 4: Cable-To-Connector Interface (Strain Relief)

Strain Relief Code	P	B	H
			
	Polyamide Overmold	Aluminum Backshell	Heat-Shrink Boot
Material	Polyamide	6061-T6 Aluminum	Polyolefin
Max. Operating Temperature	105° C.	150° C.	105° C.
Hardness	75 Shore A	N/A	
Low temperature Brittle Point	< -45° C.	N/A	< -65° C.
Volume Resistivity	>10 ¹² Ohms cm	N/A	
Dielectric Strength	>12 kV/mm	N/A	>12 kV/mm
Flammability (UL 94)	V0 Vertical Burn	N/A	V0 Vertical Burn
Smoke Index (NES 711)	<10	N/A	9.0
Toxicity Index (NES 713)	<7	N/A	1.9
Resistance to Ozone	Excellent	N/A	Excellent
Oil Resistance	Good	N/A	Good
Polar Solvents (alcohol)	Poor	N/A	Good
Non-polar Solvents	Good	N/A	Good
Fuel Resistance	Good	N/A	Fair
Immersion	1 meter MIL-STD-810 Method 512	IP67	1 meter MIL-STD-810 Method 512
Part Number	(Not Sold Separately)	390MS076	770-003

SERIES 80 MIGHTY MOUSE CORDSETS



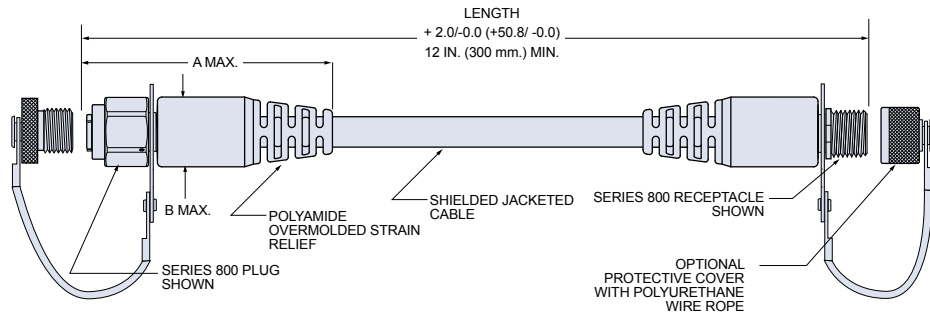
Series 80 Mighty Mouse

Mighty Mouse-to-Mighty Mouse Connector Cordsets and Single-Ended Pigtails

Cordset Dimensions

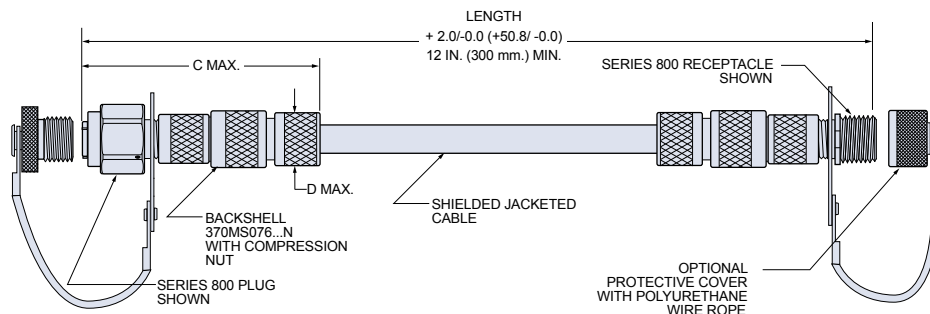
**Strain relief
Code P**

**Polyamide
Overmold**



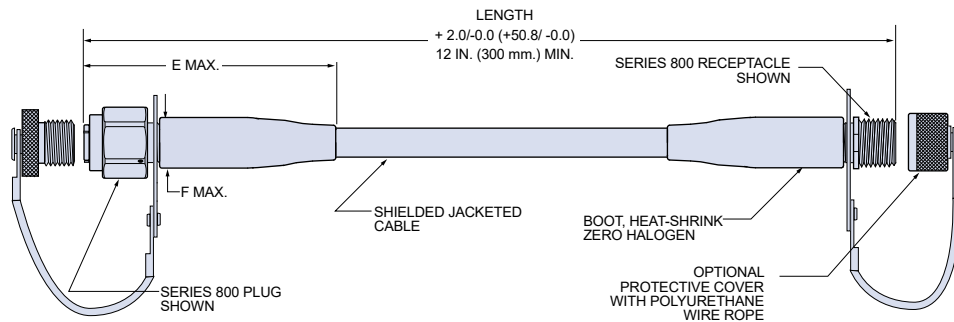
**Strain relief
Code B**

**Metal
Backshell**



**Strain relief
Code H**

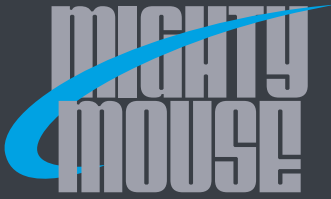
**Heatshrink
Boot**



Dimensions

Cable Code	Type	Number of Connector Pins	A Max.	B Max.	C Max.	D Max.	E Max.	F Max.
A	2 Pair UTP 100 Ω	4	2.500 (0.10)	.560 (0.02)	2.100 (0.08)	.530 (0.02)	1.600 (0.06)	.470 (0.02)
B	Quad 100 Ω	4	2.500 (0.10)	.560 (0.02)	2.100 (0.08)	.530 (0.02)	1.600 (0.06)	.470 (0.02)
C	4 Pair UTP 100 Ω	10	2.500 (0.10)	.680 (0.03)	2.100 (0.08)	.600 (0.02)	1.600 (0.06)	.580 (0.02)
D	Quad 110 Ω	4	2.500 (0.10)	.560 (0.02)	2.100 (0.08)	.530 (0.02)	1.600 (0.06)	.470 (0.02)
E	USB 90 Ω	4	2.500 (0.10)	.560 (0.02)	2.100 (0.08)	.600 (0.02)	1.600 (0.06)	.470 (0.02)
F	2 Pair STP 100 Ω	4	2.500 (0.10)	.560 (0.02)	2.100 (0.08)	.600 (0.02)	1.600 (0.06)	.470 (0.02)
G	4 Pair STP 100 Ω	10	2.500 (0.10)	.680 (0.03)	2.100 (0.08)	.600 (0.02)	1.600 (0.06)	.580 (0.02)

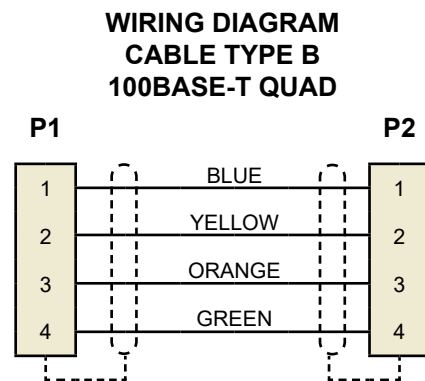
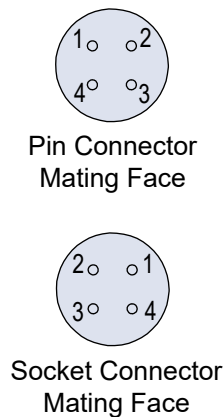
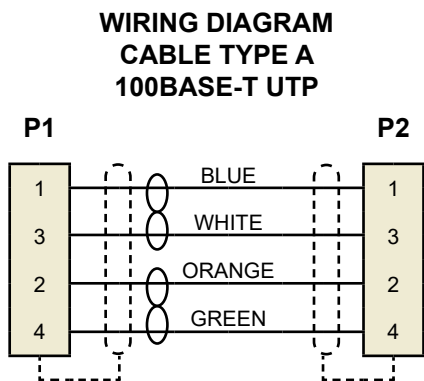
SERIES 80 MIGHTY MOUSE CORDSETS



Series 80 Mighty Mouse

Mighty Mouse-to-Mighty Mouse Connector Cordsets and Single-Ended Pigtails

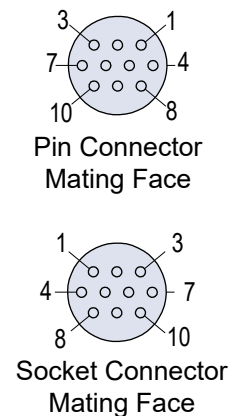
Wiring Schematics For Type A and Type B Cable



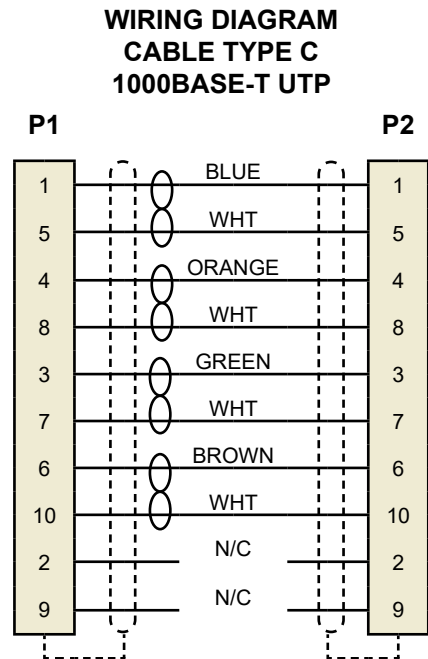
Wiring Schematic for Type C Cable for Gigabit Ethernet Applications

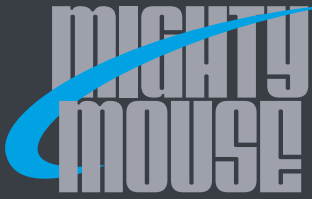
SERIES 80 MIGHTY MOUSE CORDSETS

10 Pin Connector for Gigabit Ethernet



8-13 or 10-13





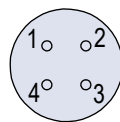
Series 80 Mighty Mouse

Mighty Mouse-to-Mighty Mouse Connector Cordsets and Single-Ended Pigtails

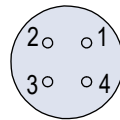
Wiring Schematic for Type D Quad Cable For IEEE 1394 Applications



4 Pin Connector for IEEE 1394

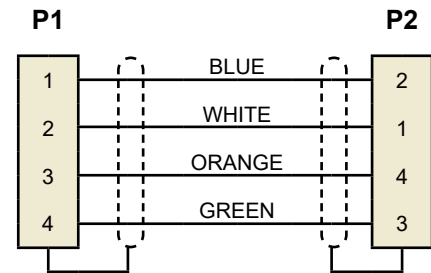


Pin Connector Mating Face

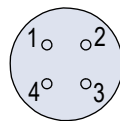


Socket Connector Mating Face

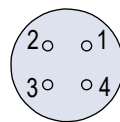
WIRING DIAGRAM CABLE TYPE D 1394 QUAD



Wiring Schematic for Type E Cable For USB 2.0 Applications

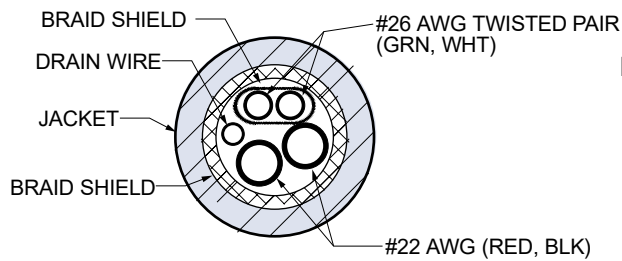
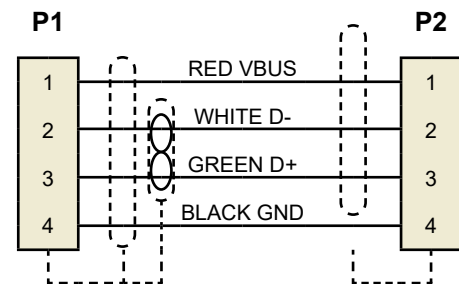


Pin Connector Mating Face

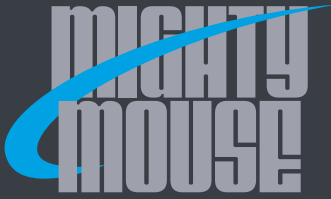


Socket Connector Mating Face

WIRING DIAGRAM CABLE TYPE E USB 2.0



SERIES 80 MIGHTY MOUSE CORDSETS

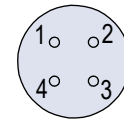
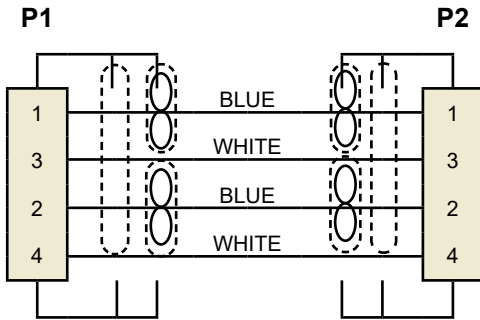


Series 80 Mighty Mouse

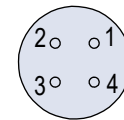
Mighty Mouse-to-Mighty Mouse Connector Cordsets and Single-Ended Pigtails

Wiring Schematic for Type F Cable for 100 Ohm STP Applications

**WIRING DIAGRAM
CABLE TYPE F
TWO 100 OHM SHIELDED TWISTED
PAIRS WITH OVERALL SHIELD**



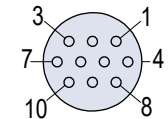
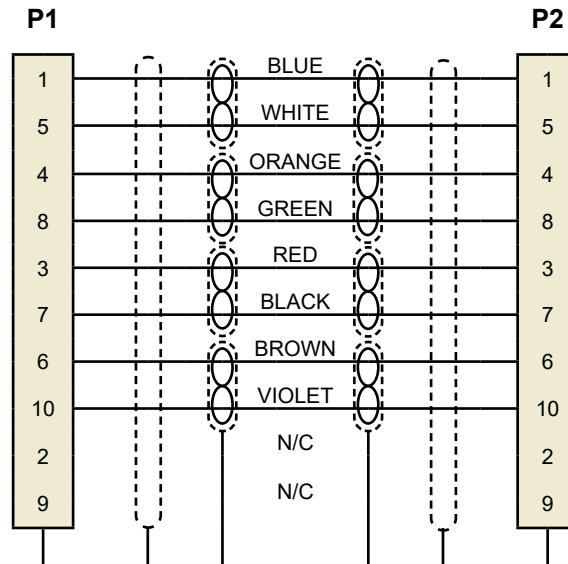
Pin Connector Mating Face



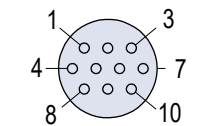
Socket Connector Mating Face

Wiring Schematic For Type G Cable For 100 Ohm STP Applications

**WIRING DIAGRAM
CABLE TYPE G
FOUR STP**



Pin Connector Mating Face



Socket Connector Mating Face

SERIES 80 MIGHTY MOUSE CORDSETS