



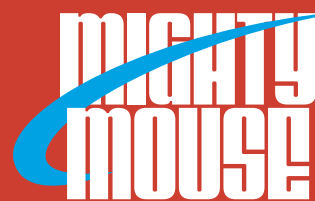
SERIES 804 MIGHTY MOUSE

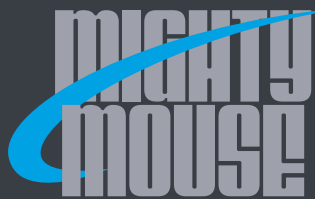
Push-Pull Quick-Disconnect Mating

Shielded and sealed breakaway design
crimp rear-release contact connectors



Mighty Mouse Series 804 Push-Pull connectors are typically employed in soldier-worn communications equipment and weapons hardware. The quick-disconnect 804 is equipped with chemical and environmental resistant fluorosilicone seals and coil spring shielding.





SERIES 804 QDC PUSH-PULL Mighty Mouse Connectors and Cables Product Selection Guide



Series 804

Connector features and benefits, connector weights, contact arrangement layouts, panel cut-out dimensions and key/keyway positions and polarizations

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Cable Plug with Crimp Contacts Band Platform

Cable plugs are available with an integral shield termination platform. For use with **Band-Master™ ATS** microbands sold separately. Accessory threads also available for backshell attachment. Contacts are crimp removable, and are packaged with the connector.

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"Cobra" Plug with Crimp Contacts and Band Platform

Right angle, low profile connectors feature an integrated backshell. Connector features removable crimp contacts accessible via the hood to provide an easy path for installation or repair of broken or bent pins. .

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Lanyard-Release Plug with Crimp Contacts and Accessory Threads

Plug connector with lanyard. One Pull of lanyard quickly demates connectors, convenient for soldiers in the field or where gloved hands make grasping smaller connectors difficult. Connector features rear release, crimp contacts for simplified field repairs.

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Panel Mount Plug with Crimp Contacts and Band Platform

These panel mount plugs offer reduced profiles inside the box compared to panel mount receptacles. Connector bodies are sealed with epoxy to assure a water-tight open face seal.

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Panel Mount PCB Plug with PC Tails or Solder Cups

These panel mount plugs offer reduced profiles inside the box compared to panel mount receptacles. Connector bodies are sealed with epoxy to assure a water-tight open face seal.

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Receptacle with Crimp Contacts and Band Platform

Choose in-line or jam-nut mount receptacle. Two receptacle shell styles available. Select integral shield termination platform type or accessory threads for backshell attachment. Contacts are crimp-type, and packaged with the connector.

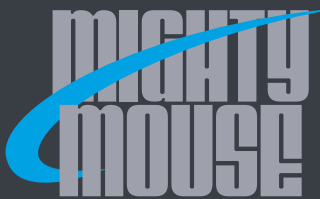
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Lanyard-Release Receptacle with Crimp Contacts and Accessory Threads

Receptacle connector with lanyard. One pull of lanyard quickly demates connectors, convenient for soldiers in the field or where gloved hands make grasping smaller connectors difficult. Connector features rear release, crimp contacts for simplified field repairs.

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SERIES 804 QDC PUSH-PULL Mighty Mouse Connectors and Cables

Product Selection Guide



Receptacle with PC Tails or Solder Cups

These panel mount connectors feature gold plated, factory-installed contacts. Connector bodies are sealed with epoxy to assure a water-tight open face seal.

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Receptacle with PC Tails, Solder Cups and Ground Pins

These panel mount connectors feature copper alloy, gold plated PC tail or solder cup contacts. Ground pins provide a grounding path from the connector to the PCB board. Jam-nut or square flange shell styles available. Contacts are non-removable and parylene compatible.

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Code Red Light Weight Hermetic Receptacle, PC Tails or Solder Cups

Light weight aluminum shell hermetic with advanced encapsulant sealed contacts using conventional copper alloy / gold plated contacts for improved electrical performance over nickel-iron contacts. Available with solder cups or PC tails. Choose jam-nut or square flange versions. 100% tested to 1×10^{-7} cc/second helium leak rate.

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Hermetic Receptacles with PC Tails or Solder Cups

Miniaturized glass-to-metal seal hermetic receptacle for sealed box or instrument panel applications. These stainless steel connectors are available with solder cup or PC tail contacts. 100% tested to 1×10^{-7} cc/second helium leak rate. Open face pressure rating 1000 PSI.

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Bulkhead Feed-Thru Connector

Jam-Nut mount, shell sizes 5 to 15. This connector mates with all push/pull plug connectors with the same polarization and opposite contact genders. Copper alloy gold-plated contacts, pin to pin, pin to plug, or plug to plug.

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Series 804 Cordsets

Choose from Phantom Cable or Polyurethane cordsets. Phantom cables offer increased flexibility where water ingress or debris are not present or critical to functionality. Select standard polyurethane cable for water tight applications, or specify low smoke/zero halogen polyurethane for applications where low toxicity is mandated.

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SERIES 804 Push-Pull QDC Connectors

Environmental Sealing and Rugged Design in a Lightweight, Push-Pull Package

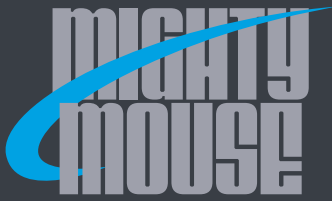
Ideal for breakaway connections, the Series 804 QDC connector features a gold-plated stainless steel spring in the receptacle and a detent on the plug body for reliable mating retention. Used for headsets, radios, weapons, and other tactical applications, the QDC Mighty Mouse 804 meets IP67 immersion requirements in the mated condition. The gold-plated spring provides low shell-to-shell resistance for excellent EMI shielding. A fluorosilicone O-ring provides a watertight seal in the mated condition.



- **Push-to-Mate, Pull-to-Unmate**
- **Gold-Plated Stainless Steel EMI Spring**
- **Crimp Rear-Release Contacts**
- **Integral Band Platform**
- **Available with Size #12, #16, #20, #20HD and #23 Contacts**
- **Environmentally Sealed**

Specifications	
Current Rating	#23–5 A, 20HD–7.5 A, #16–13 A, #12–23 A
Dielectric Withstanding Voltage	#23–750 VAC, #20HD–1000 VAC, #12 and #16–1800 VAC
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +175° C.
Shock	300 g.
Vibration	37 g.
Shielding Effectiveness ⁽¹⁾	60 dB minimum from 100MHz to 1000MHz.
Durability	2000 mating cycles
1. Tested with electroless nickel plating See Series 80 General Information for complete performance specs.	

Materials and Finishes	
Shells, Jam-Nuts	Aluminum alloy or stainless steel
Contacts	Copper alloy, 50 µlnch gold plated
Insulators	High grade rigid dielectric
Contact Retention Clip	Beryllium copper alloy
Seal, O-rings, Grommet	Fluorosilicone rubber
Spring	Gold plated stainless steel



SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Quick Disconnect, Connector Maximum Weight by Shell Size and Insert Arrangement

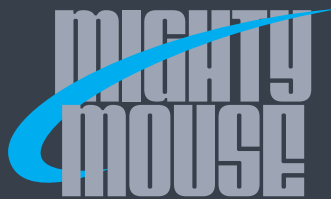
Series 804 Maximum Weight In Grams

Layout	Plug	Jam-Nut Receptacle		In-Line Receptacle
		Rear Mount	Front Mount	
5-3P	2.2	8	9.7	4
5-3S	2.4	8.3	9.8	4.1
6-1P	3.1	7.2	11.8	5.2
6-1S	3.4	7.5	12.1	5.5
6-4P	2.8	8.8	11.4	4.8
6-4S	3	9	11.6	5.1
6-6P	2.8	8.8	11.4	4.8
6-6S	3.1	9.2	11.8	5.2
6-7P	3	9.1	11.7	5.3
6-7S	3.2	9.5	12	5.5
6-23P	2.9	8.9	11.5	4.9
6-23S	3.6	9.3	11.9	5.3
7-1P	3.7	11.1	16.4	10.1
7-1S	4.3	11.7	16.9	10.7
7-25P	3.5	11	16.3	10
7-25S	4.2	11.7	16.9	10.7
7-10P	3.7	10.9	16.2	10
7-10S	4.2	11.3	16.5	10.3
8-1P	7.7	13.6	12.8	10.8
8-1S	10.1	10.1	11	13.5
8-2P	5	10.9	13.5	8
8-2S	5.7	5.7	11.7	9
8-28P	5.2	11.1	14.4	8.2
8-28S	6.2	6.2	12.9	9.5
8-13P	4.3	10.6	12.4	7.4
8-13S	4.8	11	13	8.1
8-200P	5.3	11.2	13.9	8.4
8-200S	6.1	12	14.6	9.1
9-4P	5.7	15.2	21.1	11
9-4S	6.7	16.2	22.1	12
9-210P	5.9	15	20.9	10.3
9-210S	6.7	16.2	22.1	12
9-19P	4.6	14.1	20	9.9
9-19S	4.8	14.9	21.1	9.8
9-200P	5.2	14.6	20.6	10.5
9-200S	6.3	15.7	21.7	11.6
9-201P	5.8	15.3	21.2	11.1
9-201S	6.9	16.4	22.3	12.2
10-2P	7	15.2	23	11.6
10-2S	8.3	16.5	24.4	12.9
10-5P	7.3	15.5	23.3	11.9
10-5S	8.7	16.9	24.8	13.3
10-26P	5.4	13.6	20.5	10.1
10-26S	6.2	13.9	21.1	10.5
10-200P	6.2	14.4	22.2	10.8
10-200S	7.6	15.8	23.7	12.2
10-201P	6.3	14.5	22.3	10.9

Series 804 Maximum Weight In Grams

Layout	Plug	Jam-Nut Receptacle		In-Line Receptacle
		Rear Mount	Front Mount	
10-201S	7.7	16	23.8	12.3
10-202P	6.3	14.5	22.3	10.9
10-202S	7.8	16.1	23.9	12.4
11-31P	10.1	16.6	26.1	13.4
11-31S	12.4	18.5	28.3	14.9
12-2P	10.7	21.5	26.1	20.8
12-2S	12.3	23.1	27.7	22.4
12-3P	11.7	22.4	27.1	21.8
12-3S	13.4	24.2	28.8	23.4
12-7P	11.9	22.7	27.3	22
12-7S	14.5	25.3	29.9	24.6
12-200P	10.3	21.1	25.7	20.5
12-200S	12.5	23.3	27.9	22.7
12-201P	10.7	21.5	26.1	22.8
12-201S	13	23.8	28.4	23.1
12-202P	10.8	21.6	26.2	20.9
12-202S	12.7	23.5	28.1	22.8
12-203P	11.6	21.9	26.5	21.2
12-203P	13	23.8	28.4	23.1
12-204P	11.2	22	26.6	21.3
12-204P	13	23.8	28.4	23.1
12-205P	12.3	23.1	27.7	22.4
12-205S	14.1	24.9	29.5	24.2
12-220	11.5	22.3	26.9	21.6
12-220	13.8	24.6	29.2	23.9
12-37P	10.1	21.5	25.5	22.4
12-37S	11.8	23.1	27.2	22.1
14-2P	18.7	31.6	36.9	29.6
14-2S	24.8	37.6	42.9	35.7
14-5P	15.4	28.3	33.6	26.3
14-5S	18.4	31.2	36.5	29.3
14-12P	16.2	29	34.3	27.1
14-12S	19.8	32.7	38	30.7
14-204P	14.1	27	32.3	25
14-204S	17.6	30.4	35.7	28.5
14-205P	14.4	27.3	32.6	25.3
14-205S	17.9	30.7	36	28.8
14-206P	14.6	27.5	32.8	25.5
14-206S	18	30.8	36.1	28.9
14-207P	15.4	28.3	33.6	26.3
14-207S	18.8	31.6	36.9	29.7
14-208P	16.6	29.5	34.8	27.5
14-208S	21.6	34.4	39.7	32.5
14-235P	15.7	28.6	33.9	26.6
14-235S	19.8	32.6	37.9	30.7
14-55P	12.8	25.6	30.9	23.7
14-55S	15.6	28.3	33.8	26.5

SERIES 804 QDC PUSH-PULL

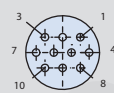


SERIES 804 QDC PUSH-PULL Mighty Mouse Connectors and Cables

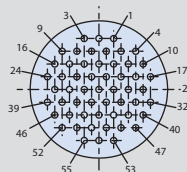
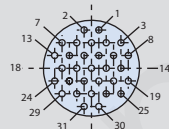
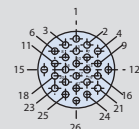
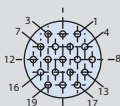


Contact Layouts Mating Face of Pin Insert Shown

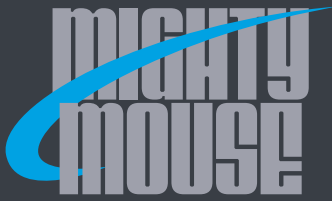
SIZE #23 CONTACTS, TESTED AT 750 VAC



Insert Arrangement	5-3	6-4	6-6	6-7	7-10	8-13
No. of Contacts	3	4	6	7	10	13



Insert Arrangement	9-19	10-26	11-31	12-37	14-55
No. of Contacts	19	26	31	37	55

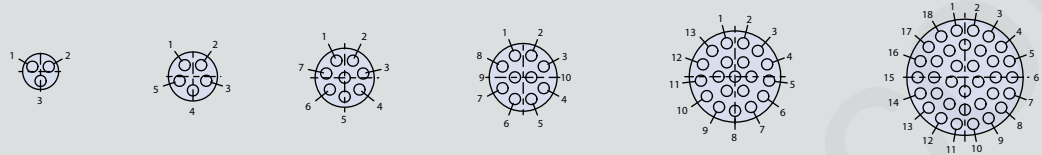


SERIES 804 QDC PUSH-PULL Mighty Mouse Connectors and Cables

Contact Layouts Mating Face of Pin Insert Shown

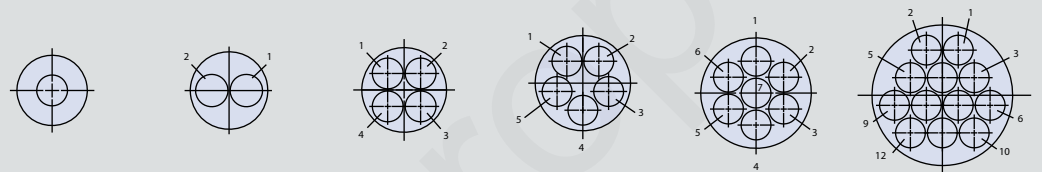


SIZE #20HD CONTACT ARRANGEMENTS, TESTED AT 1000 VAC



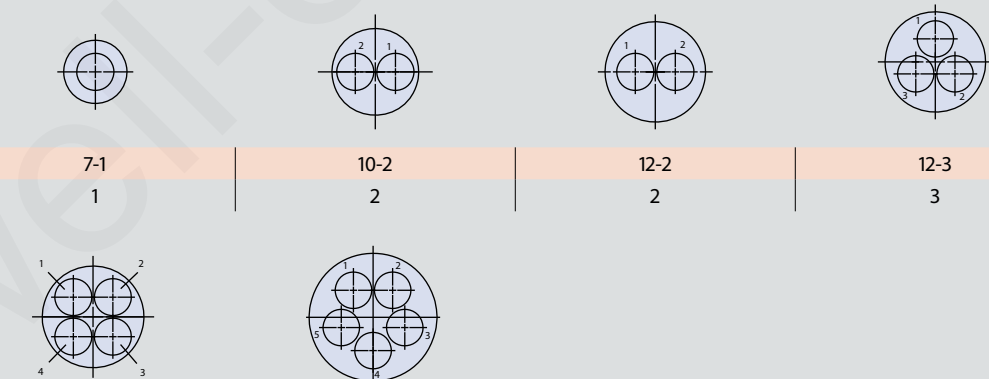
Insert Arrangement	6-23	7-25	8-28	9-210	12-220	14-235
No. of Contacts	3	5	8	10	20	35

SIZE #16 CONTACT ARRANGEMENTS, TESTED AT 1800 VAC



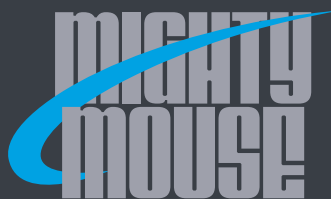
Insert Arrangement	6-1	8-2	9-4	10-5	12-7	14-12
No. of Contacts	1	2	4	5	7	12

SIZE #12 CONTACTS ARRANGEMENTS, TESTED AT 1800 VAC



Insert Arrangement	7-1	10-2	12-2	12-3
No. of Contacts	1	2	2	3

Insert Arrangement	14-4	14-5
No. of Contacts	4	5

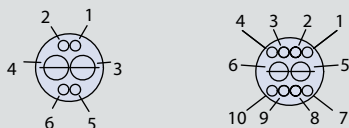


SERIES 804 QDC PUSH-PULL Mighty Mouse Connectors and Cables



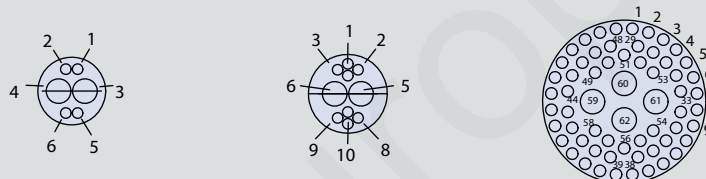
Contact Layouts Mating Face of Pin Insert Shown

SIZE #20 AND SIZE #23, COMBO CONTACT ARRANGEMENTS, TESTED AT 750 VAC



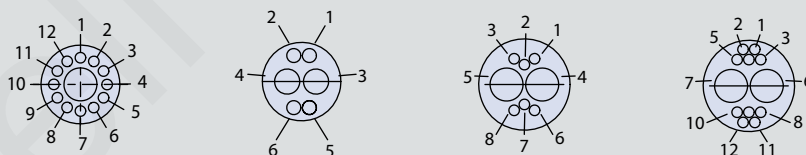
Insert Arrangement	8-200		9-201	
Contact Size	#12	#23	#12	#23
No. of Contacts	2	4	2	8
VAC Test Voltage	750		750	

SIZE #16 AND SIZE #23, COMBO CONTACT ARRANGEMENTS, TESTED AT 750 VAC

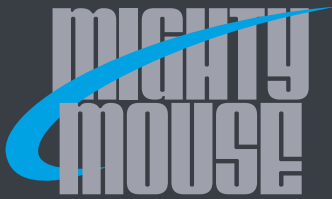


Insert Arrangement	9-200		10-202		15-206	
Contact Size	#16	#23	#16	#23	#16	#23
No. of Contacts	2	4	2	8	4	58
VAC Test Voltage	750		750		750	

SIZE #12 AND SIZE #23, COMBO CONTACT ARRANGEMENTS, TESTED AT 750 VAC



Insert Arrangement	10-200		10-201		12-200		12-201	
Contact Size	#12	#23	#12	#23	#12	#23	#12	#23
No. of Contacts	1	12	2	4	2	6	2	10
VAC Test Voltage	750		750		750		750	

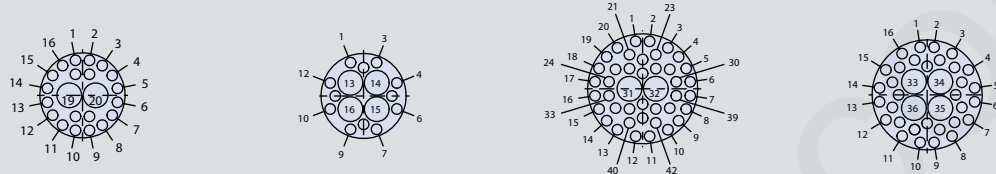


SERIES 804 QDC PUSH-PULL Mighty Mouse Connectors and Cables

Contact Layouts Mating Face of Pin Insert Shown

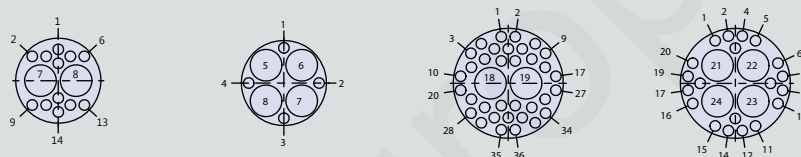


SIZE #16 AND SIZE #23, COMBO CONTACT ARRANGEMENTS, TESTED AT 1300 VAC



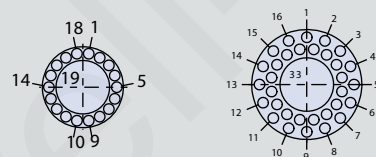
Insert Arrangement	12-202		12-203		14-204		14-205	
Contact Size	#16	#23	#16	#23	#16	#23	#16	#23
No. of Contacts	2	20	4	12	2	40	4	32
VAC Test Voltage	1300		1300		1300		1300	

SIZE #12 AND SIZE #23, COMBO CONTACT ARRANGEMENTS, TESTED AT 1300 VAC

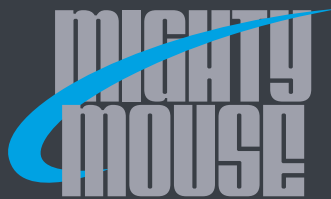


Insert Arrangement	12-204		12-205		14-206		14-207	
Contact Size	#12	#23	#12	#23	#12	#23	#12	#23
No. of Contacts	2	12	4	4	2	34	4	20
VAC Test Voltage	1300		1300		1300		1300	

SIZE #8 AND SIZE #23, COMBO CONTACT ARRANGEMENTS, TESTED AT 1300 VAC



Insert Arrangement	11-201		14-208	
Contact Size	#8	#23	#8	#23
No. of Contacts	1	18	2	32
VAC Test Voltage	1300		1300	



Panel Cutout Dimensions, Demate Force, and Polarization

PANEL CUTOUT DIMENSIONS

Jam-Nut, Front Panel Mount Cutout Dimensions		
Shell Size	A Flat	Ø B
5	.480 (12.19)	.510 (12.95)
	.476 (12.09)	.505 (12.83)
6	.540 (13.72)	.572 (14.53)
	.536 (13.61)	.567 (14.40)
7	.673 (17.09)	.698 (17.73)
	.669 (16.99)	.693 (17.60)
8	.673 (17.09)	.698 (17.73)
	.669 (16.99)	.693 (17.60)
9	.725 (18.42)	.760 (19.30)
	.721 (18.31)	.755 (19.18)
10	.800 (20.32)	.822 (20.88)
	.796 (20.22)	.817 (20.75)
12	.982 (24.94)	1.010 (25.65)
	.978 (24.84)	1.005 (25.53)
14	1.032 (26.21)	1.072 (27.23)
	1.028 (26.11)	1.067 (27.10)

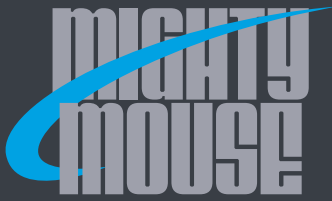
Jam-Nut Rear Panel Mount Cutout Dimensions		
Shell Size	A Flat	Ø B
5	.425 (10.80)	.448 (11.38)
	.421 (10.69)	.443 (11.25)
6	.480 (12.19)	.510 (12.95)
	.476 (12.09)	.505 (12.83)
7	.604 (15.34)	.635 (16.13)
	.600 (15.24)	.630 (16.00)
8	.604 (15.34)	.635 (16.13)
	.600 (15.24)	.630 (16.00)
9	.665 (16.89)	.698 (17.73)
	.661 (16.79)	.693 (17.60)
10	.731 (18.57)	.760 (19.30)
	.7427 (18.86)	.755 (19.18)
12	.853 (21.67)	.885 (22.48)
	.849 (21.56)	.880 (22.35)
14	.978 (24.84)	1.010 (25.65)
	.974 (24.74)	1.005 (25.53)

DEMATING FORCE

Series 804 Demating Force		
Layout	Average Force	
	Pounds	Newtons
5-3	11	48
6-4	11	48
6-7	12	51
7-10	12	54
8-13	13	56
9-19	14	62
10-26	16	68
12-37	18	78
14-55	21	94

POLARIZATION

Key and Keyway Positions		
Plug		Receptacle
Pos.	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°



SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Cable Connector Plug with Integral Shield Termination Platform or Accessory Threads



Series 804 In-line Plugs

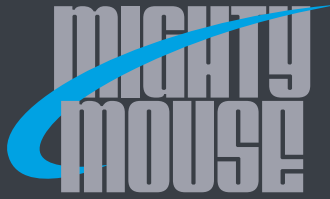
Plugs designed to snap securely into the receptacle housings and release with a simple pull. Two keying styles available. Select a single master key for fast mating in low-light situations, or specify alternate key positions where polarization is required. Two shell styles available. Select integral band platform for direct cable shield termination with use of Band-Master ATS® band. Choose accessory thread shell style for attaching a strain relief backshell or adapter. Aluminum or stainless steel shells available. Contacts are copper alloy and gold plated. Fluorosilicone interfacial and grommet seals provide IP67 sealing in the mated condition.

How To Order						
Sample Part Number		804-001	-06	NF	9-19	S A
Series (See Table I)	804-001 = Plug with Banding Platform 804-002 = Plug with Accessory Thread					
Shell Style	-06 = Plug					
Shell Material and Finish	C = Aluminum / Black Anodize (Non-Conductive) M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE NF = Aluminum / Cadmium with Olive Drab Chromate ZNU = Aluminum / Zinc-Nickel with Black Chromate Z1 = Stainless Steel / Passivated					
Shell Size - Insert Arrangement	See Contact Arrangements Page H-6					
Contact Type	Connector supplied without contacts A = Pin, less contacts B = Socket, less contacts Connectors with contacts are supplied with crimp contacts. Contacts not installed. For coax contacts, order contacts separately and order connector without contacts. Connector supplied with contacts P = Pin Connector S = Socket Connector Connector supplied with 30 AWG crimp Barrel G = Pin, Crimp H = Socket, Crimp					
Polarization (See Table II)	Omit = Single Master Key A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F					

Table I: Series	
804-001 Plug with Banding Platform	804-002 Plug with Accessory Thread

Table II: Key Positions			
	Pos.	A°	B°
	A	150°	210°
	B	75°	210°
	C	95°	230°
	D	140°	275°
	E	75°	275°
	F	95°	210°

SERIES 804 QDC PUSH-PULL



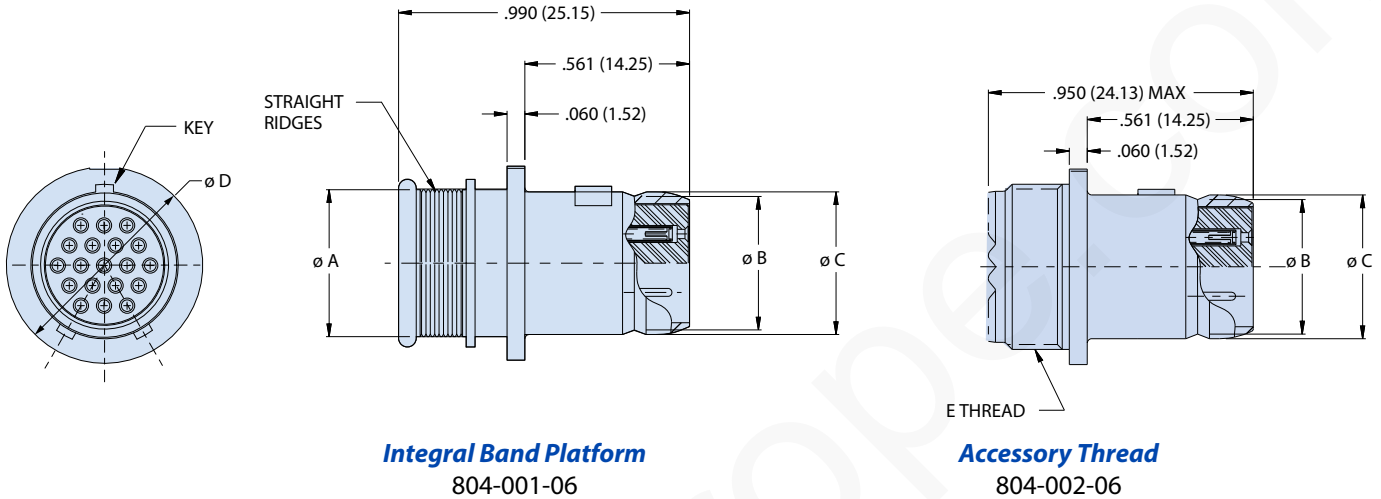
SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Cable Connector Plug with Integral Shield Termination Platform or Accessory Threads

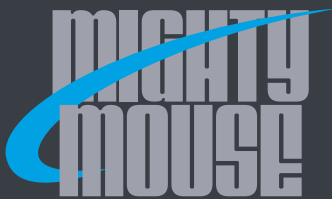
PLUG CONNECTOR - STYLE 06



Dimensions					
Shell Size	Ø A	Ø B	Ø C	Ø D Max.	E Threads
5	.246 (6.25)	.219 (5.56)	.250 (6.35)	.427 (10.85)	.2500-32 UNEF-2A
6	.286 (7.26)	.282 (7.16)	.313 (7.95)	.495 (12.57)	.3125-32 UNEF-2A
7	.390 (9.91)	.351 (8.92)	.383 (9.73)	.575 (14.60)	.4375-28 UNEF-2A
8	.442 (11.23)	.398 (10.11)	.429 (10.90)	.614 (15.60)	.5000-28 UNEF-2A
9	.500 (12.70)	.454 (11.53)	.486 (12.34)	.670 (17.02)	.5625-24 UNEF-2A
10	.564 (14.33)	.529 (13.44)	.563 (14.30)	.745 (18.92)	.6250-24 UNEF-2A
11	.608 (15.44)	.587 (14.91)	.618 (15.70)	.795 (20.19)	.6875-24 UNEF-2A
12	.650 (16.51)	.646 (16.41)	.676 (17.17)	.865 (21.97)	.6875-24 UNEF-2A
14	.805 (20.45)	.768 (19.51)	.800 (20.32)	.985 (25.02)	.9375-20 UNEF-2A

NOTES

1. Contacts are size 23 crimp type, and used in a rear release retention system.
2. For additional insert arrangements consult factory
3. Crimp barrel accommodates 22, 24, 26 and 28 gage wire
4. Crimp Tool Data:
 - Crimp Frame: 809-015
 - Positioner for use with crimp frame: Glenair part no. 809-005
 - Insertion / extraction tool: Glenair part no. 809-088
5. Connector, plug mates with all push/pull high density receptacle connectors with same polarization and opposite contact gender
6. Rear insulator grommet not supplied
7. Material and Finish
 - Shell: aluminum alloy or CRES / see how to order table
 - Insulator: high grade rigid dielectric
 - Interfacial seal, gasket: fluorosilicone / N.A.
 - Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate



SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Cobra™ Right Angle Crimp Contact Plug with Integral Shield Termination Platform



Series 804 Cobra™ Style Plug

Integral ultra-low profile right angle banding backshell reduces clearance requirements without compromising ruggedness, environmental protection, or shielding performance. Rear cover allows easy access and installation of pin and socket contacts. Cover gasket prevents moisture intrusion. Cover designed with lip to allow for quick, single-handed demating of plug. Eight clocking positions available. Offered in aluminum or stainless steel shells. Contacts are gold-plated copper alloy. Crimp contact version include snap-in rear release contacts. High-grade rigid dielectric insulators and fluorosilicone wire seal. Solder cup versions are factory-installed and epoxy potted. Available with 3 to 55 contacts. Size #23 contacts accept 22-28 AWG wire. Fluorosilicone interfacial seal and gasket for IP67 sealing in the mated condition.

How To Order

Sample Part Number		804-066-06	ZNU	8-13	P	A	1	05
Series	804-066-06 = Push Pull Plug							
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE NF = Aluminum / Cadmium with Olive Drab Chromate ZNU = Aluminum / Zinc-Nickel with Black Chromate Z1 = Stainless Steel / Passivated							
Shell Size - Insert Arrangement	5-3, 6-4, 6-6, 6-7, 7-10, 8-13, 9-19, 10-26, 12-37, 14-55							
Contact Type	A = Pin, Solder Cup P = Pin, Crimp B = Socket, Solder Cup S = Socket, Crimp							
Polarization (See Table I)	Omit = Single Master Key A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F							
Cable Exit Position (See Table II)	1 through 8							
Cable Entry Size (See Table III)	2 through 12							

Table I: Key Positions

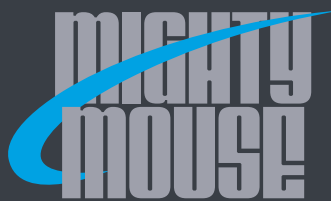
Pos.	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

Table II: Exit Position

Pos	C°
1	0°
2	45°
3	90°
4	135°
5	180°
6	225°
7	270°
8	315°

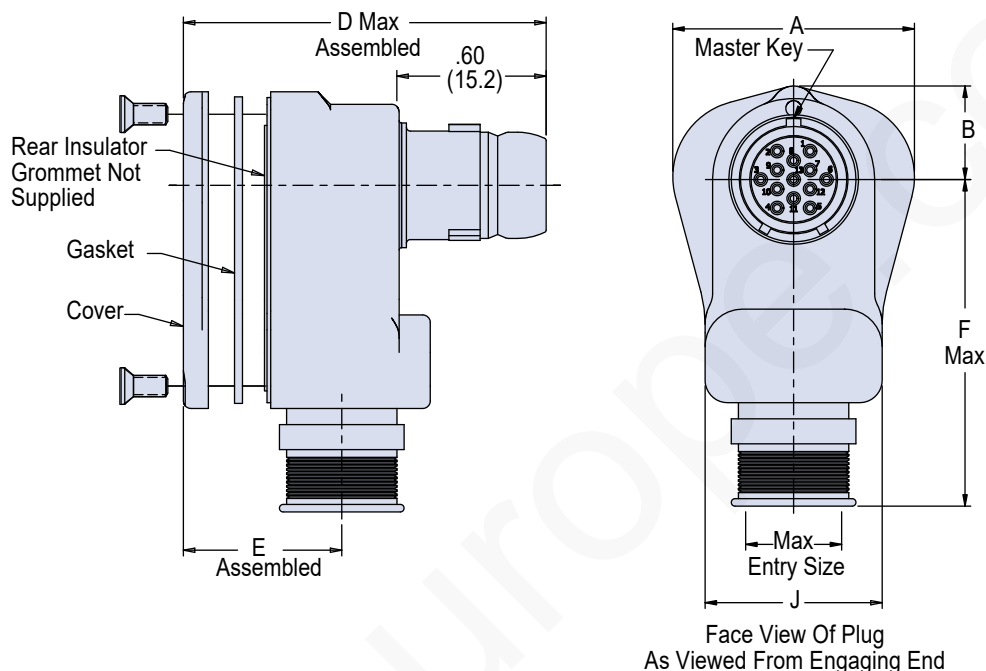
Table III: Cable Entry

Code	Entry Size
02	0.125
03	0.188
04	0.250
05	0.313
06	0.375
07	0.438
08	0.500
09	0.563
10	0.625
11	0.688
12	0.750



Cobra™ Right Angle Crimp Contact Plug with Integral Shield Termination Platform

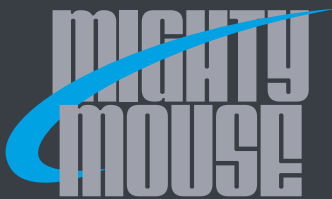
RIGHT ANGLE LOW PROFILE CABLE PLUG



Dimensions									
Shell Size	Ø A	B	D Max	E Max	F	G Max	H Max	J	Max Entry Size
5	.67 (17.02)	.27 (6.86)	1.03 (26.16)	.32 (8.13)	1.21 (30.73)	1.34 (34.04)	1.16 (29.46)	.500 (12.70)	03
6	.75 (19.05)	.30 (7.62)	1.08 (27.43)	.34 (8.64)	1.24 (31.50)	1.39 (35.31)	1.21 (30.73)	.560 (14.22)	04
7	.88 (22.35)	.34 (8.64)	1.20 (30.48)	.39 (9.91)	1.28 (32.51)	1.50 (38.10)	1.32 (33.53)	.650 (16.51)	05
8	.97 (24.64)	.38 (9.65)	1.24 (31.50)	.42 (10.67)	1.31 (33.27)	1.54 (39.12)	1.36 (34.54)	.710 (18.03)	06
9	1.06 (26.92)	.41 (10.41)	1.30 (33.02)	.45 (11.43)	1.34 (34.04)	1.61 (40.89)	1.43 (36.32)	.770 (19.56)	07
10	1.15 (29.21)	.44 (11.18)	1.35 (34.29)	.48 (12.19)	1.37 (34.80)	1.66 (42.16)	1.47 (37.34)	.835 (21.21)	08
12	1.33 (33.78)	.50 (12.70)	1.44 (36.58)	.52 (13.21)	1.48 (37.59)	1.75 (44.45)	1.56 (39.62)	.950 (24.13)	10
14	1.46 (37.08)	.56 (14.22)	1.53 (38.86)	.58 (14.73)	1.64 (41.66)	1.84 (46.74)	1.69 (42.93)	1.070 (27.18)	12

NOTES

1. Contacts are size 23
2. Consult factory for additional contact arrangements and/or shell orientations
3. Crimp barrel accommodate 22, 24, 26 and 28 gage wire
4. Crimp tool data:
 - Hand crimp tool: Glenair part no. 809-015
 - Positioner for hand tool: Glenair part no. 809-055
 - Insert/extraction tool: Glenair part no. 809-088
5. Mates with all QDC, high density receptacle connectors with same polarization and opposite contact gender (804-003 through 804-006, 804-009, 804-020 and 804-021)
6. Rear insulator grommet not supplied
7. Material and Finish
 - Plug barrel, housing, cover: aluminum alloy or CRES/ see how to order table
 - Insulator: high grade rigid dielectric
 - Interfacial seal, gasket: fluorosilicone/ N.A.
 - Contact: copper alloy/ gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate
 - Contact retention clip: beryllium copper alloy/ N.A.
 - Hardware: stainless steel/ passivate or black oxide



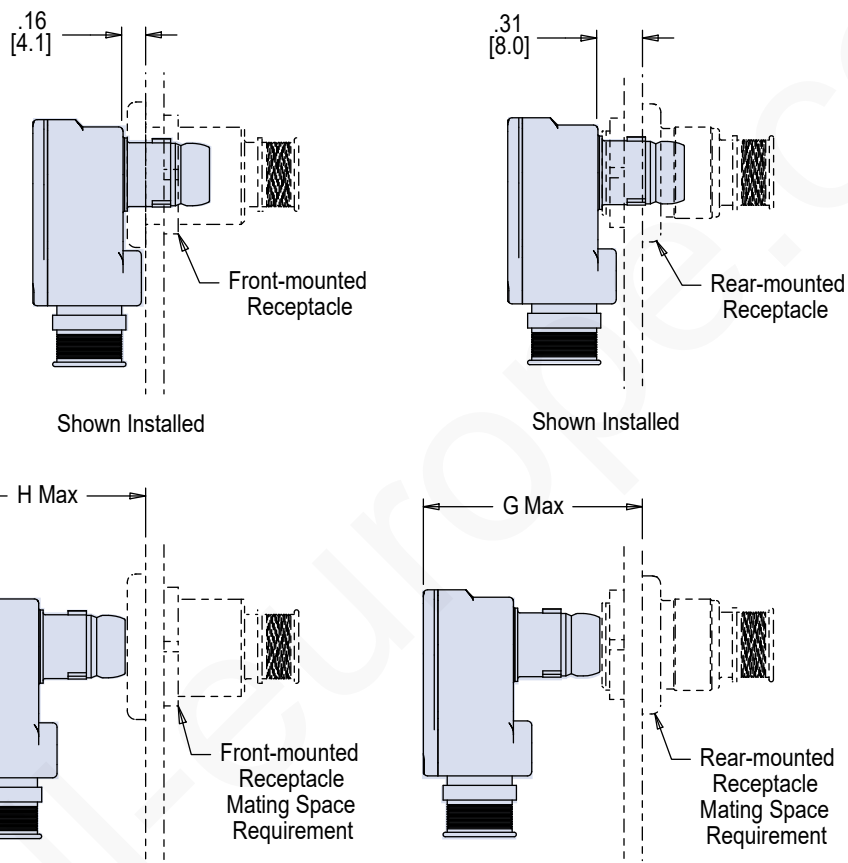
SERIES 804 QDC PUSH-PULL

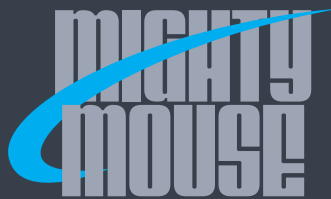
Mighty Mouse Connectors and Cables



Cobra™ Right Angle Crimp Contact Plug with
Integral Shield Termination Platform

MATING SPACE REQUIREMENTS





SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Lanyard-Release Crimp Contact Plug with Accessory Threads



Series 804 Lanyard-Release Plug

Quick-release lanyard-equipped series 804 plugs provide unparalleled performance wherever lanyard-assisted disengagement is required. Designed to provide quick disconnect of the connector plug with a simple axial pull on the lanyard. Includes rear accessory thread for attachment of backshells or adapters. Crimp contacts are copper alloy/gold plated. IP67 in the mated condition.

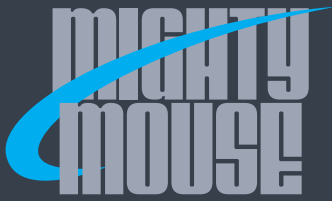
How To Order																		
Sample Part Number			804-113	-06	M	6-7	P	A	6									
Series	804-113 = 804 Push / Pull Plug with lanyard																	
Shell Style	-06 = Plug with accessory thread																	
Shell Material and Finish	C = Aluminum / Black Anodize (Non-Conductive) M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE NF = Aluminum / Cadmium with Olive Drab Chromate ZN = Aluminum / Zinc-Nickel with Olive Drab Chromate ZNU = Aluminum / Zinc-Nickel with Black Chromate Z1 = Stainless Steel / Passivated																	
Shell Size - Insert Arrangement	Available in Shell Sizes 5 thru 14. See Contact Arrangements Page H-6																	
Contact Style	<table><tr><th>Connector supplied without Crimp contacts</th><th>Connector supplied with contacts</th><th>Connector Supplied with 30 AWG Crimp Barrel</th></tr><tr><td>A = Pin Connector</td><td>P = Pin</td><td>G = Pin</td></tr><tr><td>B = Socket Connector</td><td>S = Socket</td><td>H = Socket</td></tr></table> Connectors with contacts are supplied with crimp contacts. Contacts not installed. For coax contacts, order contacts separately and order connector without contacts.			Connector supplied without Crimp contacts	Connector supplied with contacts	Connector Supplied with 30 AWG Crimp Barrel	A = Pin Connector	P = Pin	G = Pin	B = Socket Connector	S = Socket	H = Socket						
Connector supplied without Crimp contacts	Connector supplied with contacts	Connector Supplied with 30 AWG Crimp Barrel																
A = Pin Connector	P = Pin	G = Pin																
B = Socket Connector	S = Socket	H = Socket																
Polarization (See Table I)	Omit = Single Key (non polarized) A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F																	
Lanyard Length	1 = 1 inch; Lanyard Length In Inches ±.500																	
Band Adapter	Omit for none; B = Band Adapter 440MS134																	

NOTES

1. Contacts crimp type, and are used in a rear release retention system
2. Crimp barrel accommodates 22, 24, 26 and 28 gage wire
3. Crimp tool data:
 - Crimp frame: M22520/2-01
 - Positioner for use with crimp frame: Glenair part number 809-005
 - Insertion/extraction tool: Glenair part number 809-088
4. This connector, plug mates with all push/pull high density receptacle connectors with same polarization and opposite contact gender 804-0044, 804-004, 804-005, 804-006, and 804-114
5. Connector releases at 0° to 15°. 15° release force will vary

Table I: Key Positions

Position	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

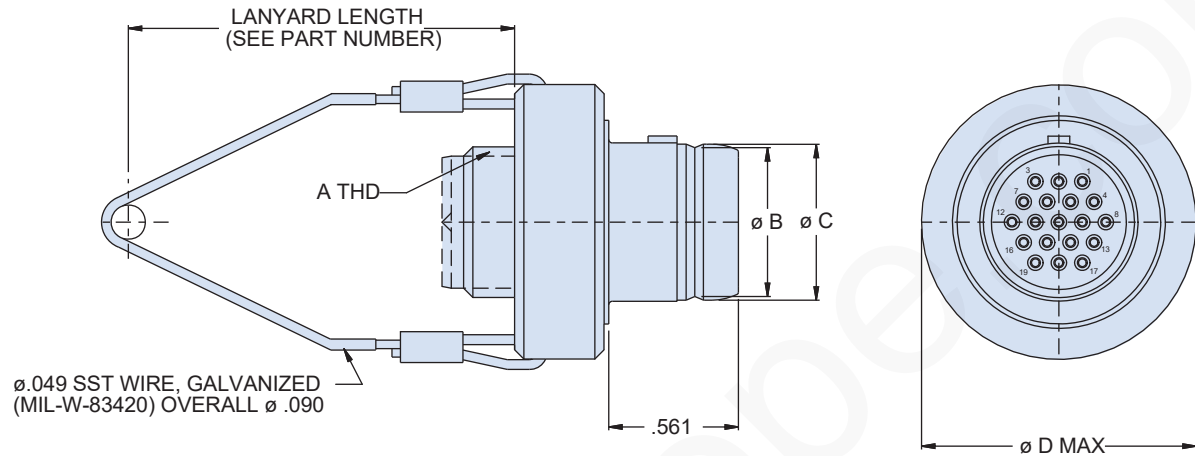


SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Lanyard-Release Crimp Contact Plug with Accessory Threads



Dimensions				
Shell Size	A Thread	Ø B	Ø C	Ø D MAX
5	.250-32 UNEF	.219 (5.56)	.250 (6.35)	.812 (20.62)
6	.3125-32 UNEF	.282 (7.16)	.313 (7.95)	.875 (22.23)
7	.4375-28 UNEF	.351 (8.92)	.383 (9.73)	.938 (23.83)
8	.5000-28 UNEF	.398 (10.11)	.429 (10.90)	1.000 (25.40)
9	.5625-24 UNEF	.454 (11.53)	.486 (12.34)	1.062 (26.97)
10	.6250-24 UNEF	.529 (13.44)	.563 (14.30)	1.125 (28.58)
11	.6875-24 UNEF	.587 (14.91)	.618 (15.70)	1.188 (30.18)
12	.6875-24 UNEF	.646 (16.41)	.676 (17.17)	1.250 (31.75)
14	.9375-20 UNEF	.768 (19.51)	.800 (20.32)	1.375 (34.92)

Material and Finish

- Shell: aluminum alloy or CRES/see how to order table
- Insulator: high grade rigid dielectric / N.A.
- Interfacial seal, grommet seal: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate



SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Panel Mount Plugs with Crimp Contacts and Integral Shield Termination Platform



Panel Mount Plugs

Feature push/pull action for quick mating and demating of connectors. These small form factor connectors save panel space and come with removable, rear release crimp contacts. Integral band platform allows for termination of cable shield braid using Band-Master ATS® band. Mates with all push/pull high density receptacle connectors with same polarization and opposite contact gender. Fluorosilicone interfacial seal, O-ring and grommet seals provide IP67 sealing in the mated condition. Red stripe indicator aides in alignment during mating.

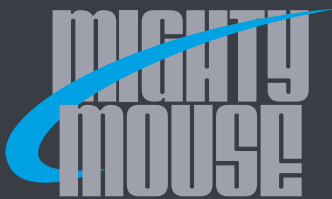
How To Order							
Sample Part Number		804-116	-07	NF	10-26	E	A
Series	804-116 = Panel Mount Plug, Crimp Contacts and Banding Porch						
Shell Style (See Table I)	00 = Jam-Nut, Front Panel Mount 02 = Flange Mount 07 = Jam-Nut, Rear Panel Mount						
Shell Material and Finish	C = Aluminum / Black Anodize (Non-Conductive) M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE NF = Aluminum / Cadmium with Olive Drab Chromate ZNU = Aluminum / Zinc-Nickel with Black Chromate Z1 = Stainless Steel / Passivated						
Shell Size - Insert Arrangement	See Contact Arrangements Page H-6						
Contact Type	Connector supplied without Crimp contacts A = Pin Connector B = Socket Connector	Connector supplied with contacts P = Pin S = Socket	Connector Supplied with 30 AWG Crimp Barrel G = Pin H = Socket Connectors with contacts are supplied with crimp contacts. Contacts not installed. For Coax contacts, order contacts separately and order connector without contacts.				
Polarization (See Table II)	Omit = Single Key (non polarized) A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F						

Table I: Shell Style		
-07 Jam-Nut, Rear Panel Mount	-02 Flange Mount	-00 Jam-Nut, Front Panel Mount

Table II: Key Positions			
	Pos.	A°	B°
	A	150°	210°
	B	75°	210°
	C	95°	230°
	D	140°	275°
	E	75°	275°
	F	95°	210°

NOTES

- Contacts are crimp type, and used in a rear release retention system
- Plug mates with all push/pull high density receptacle connectors with same polarization and opposite contact gender
- See page H-9 for recommended panel cut-outs



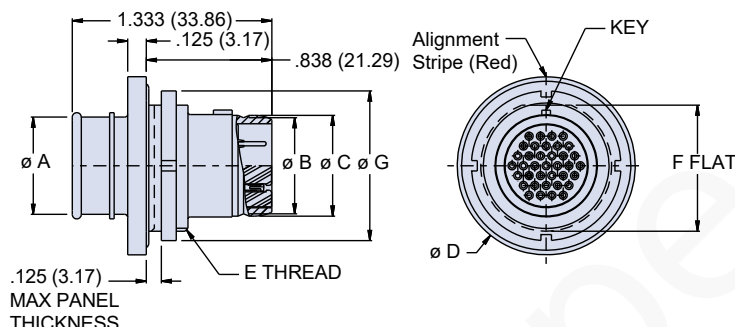
SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Panel Mount Plugs with Crimp Contacts and
Cable Shield Termination Platform

JAM-NUT, REAR PANEL MOUNT PLUG - STYLE 07

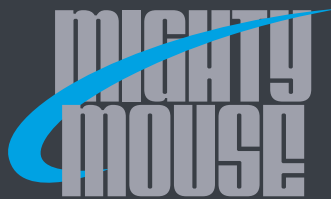


Dimensions							
Shell Size	Ø A	Ø B	Ø C	Ø D	E Thread	F Flat	Ø G
5	0.245 (6.22)	0.219 (5.56)	0.250 (6.35)	0.730 (18.54)	.4375-32 UN-2A	0.415 [0.02]	0.562 [0.02]
6	0.290 (7.37)	0.282 (7.16)	0.313 (7.95)	0.730 (18.54)	.5000-32 UN-2A	0.467 [0.02]	0.625 [0.02]
7	0.390 (9.91)	0.351 (8.92)	0.382 (9.70)	0.910 (23.11)	.6250-28 UN-2A	0.594 [0.02]	0.750 [0.03]
8	0.445 (11.30)	0.398 (10.11)	0.429 (10.90)	0.955 (24.26)	.6250-28 UN-2A	0.594 [0.02]	0.750 [0.03]
9	0.500 (12.70)	0.454 (11.53)	0.486 (12.34)	1.000 (25.40)	.6875-28 UN-2A	0.655 [0.03]	0.812 [0.03]
10	0.560 (14.22)	0.529 (13.44)	0.562 (14.27)	1.085 [0.04]	.7500-28 UN-2A	0.721 [0.03]	0.875 [0.03]
12	0.650 (16.51)	0.646 (16.41)	0.677 (17.20)	1.180 [0.05]	.8750-28 UN-2A	0.843 [0.03]	1.000 [0.04]
14	0.805 (20.45)	0.768 (19.51)	0.800 (20.32)	1.325 [0.05]	1.0000-28 UN-2A	0.968 [0.04]	1.125 [0.04]

Material and Finish

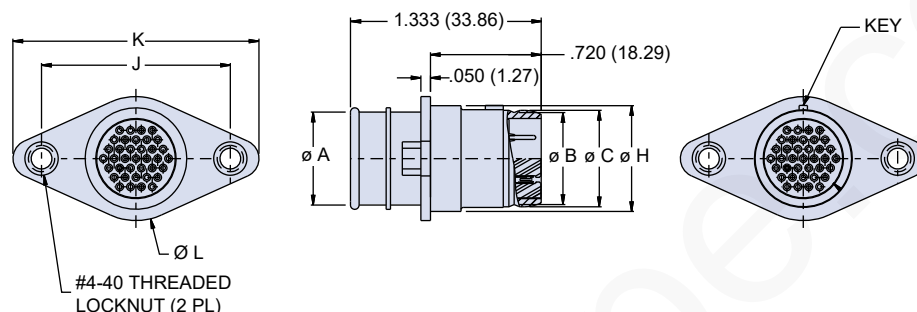
- Shell, jam-nut: aluminum alloy or CRES/ see how to order table
- Insulator: high grade rigid dielectric / N.A.
- Interfacial seal, O-ring, grommet: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate
- Potting compound: epoxy / N.A.

SERIES 804 QDC PUSH-PULL



Panel Mount Plugs with Crimp Contacts and Cable Shield Termination Platform

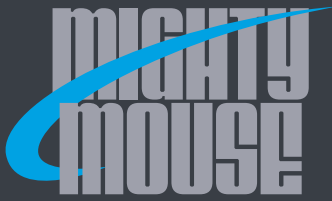
FLANGE MOUNT PLUG - STYLE 02



Dimensions							
Shell Size	Ø A	Ø B	Ø C	H	J	K	Ø L
5	0.245 (6.22)	0.219 (5.56)	0.250 (6.35)	0.320 (0.01)	0.755 (0.03)	1.055 (0.04)	0.420 (0.02)
6	0.290 (7.37)	0.282 (7.16)	0.313 (7.95)	0.385 (0.02)	0.820 (0.03)	1.120 (0.04)	0.445 (0.02)
7	0.390 (9.91)	0.351 (8.92)	0.382 (9.70)	0.450 (0.02)	0.885 (0.03)	1.185 (0.05)	0.550 (0.02)
8	0.445 (11.30)	0.398 (10.11)	0.429 (10.90)	0.495 (0.02)	0.930 (0.04)	1.230 (0.05)	0.593 (0.02)
9	0.500 (12.70)	0.454 (11.53)	0.486 (12.34)	0.555 (0.02)	0.990 (0.04)	1.290 (0.05)	0.651 (0.03)
10	0.560 (14.22)	0.529 (13.44)	0.562 (14.27)	0.625 (0.02)	1.060 (0.04)	1.360 (0.05)	0.741 (0.03)
12	0.650 (16.51)	0.646 (16.41)	0.677 (17.20)	0.750 (0.03)	1.185 (0.05)	1.485 (0.06)	0.850 (0.03)
14	0.805 (20.45)	0.768 (19.51)	0.800 (20.32)	0.865 (0.03)	1.300 (0.05)	1.600 (0.06)	0.975 (0.04)

Material and Finish

- Shell: aluminum alloy or CRES / see how to order table
- Insulator: high grade rigid dielectric / N.A.
- Interfacial seal, O-ring, grommet: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate
- Potting compound: epoxy / N.A.



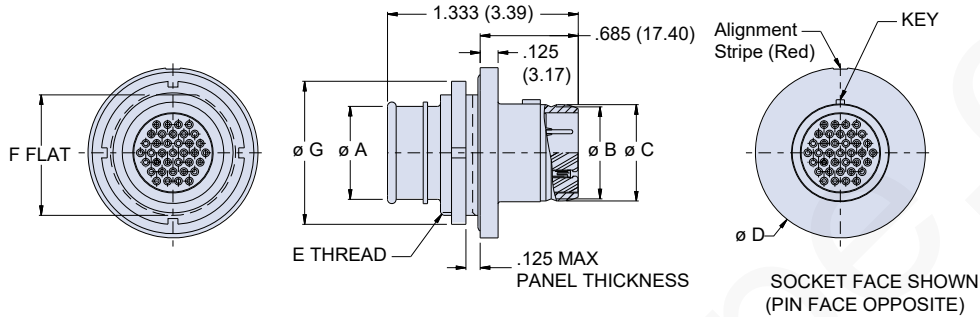
SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Panel Mount Plugs with Crimp Contacts and Cable Shield Termination Platform

JAM-NUT, FRONT PANEL MOUNT, PLUG - STYLE 00



Dimensions								
Shell Size	Ø A	Ø B	Ø C	Ø D	E Thread	F Flat	Ø G	H
5	0.245 (6.22)	0.219 (5.56)	0.250 (6.35)	0.730 (18.54)	.4375-32 UN-2A	0.415 (0.02)	0.562 (0.02)	0.320 (0.01)
6	0.290 (7.37)	0.282 (7.16)	0.313 (7.95)	0.730 (18.54)	.5000-32 UN-2A	0.467 (0.02)	0.625 (0.02)	0.385 (0.02)
7	0.390 (9.91)	0.351 (8.92)	0.382 (9.70)	0.910 (23.11)	.6250-28 UN-2A	0.594 (0.02)	0.750 (0.03)	0.450 (0.02)
8	0.445 (11.30)	0.398 (10.11)	0.429 (10.90)	0.955 (24.26)	.6250-28 UN-2A	0.594 (0.02)	0.750 (0.03)	0.495 (0.02)
9	0.500 (12.70)	0.454 (11.53)	0.486 (12.34)	1.000 (25.40)	.6875-28 UN-2A	0.655 (0.03)	0.812 (0.03)	0.555 (0.02)
10	0.560 (14.22)	0.529 (13.44)	0.562 (14.27)	1.085 [0.04]	.7500-28 UN-2A	0.721 (0.03)	0.875 (0.03)	0.625 (0.02)
12	0.650 (16.51)	0.646 (16.41)	0.677 (17.20)	1.180 [0.05]	.8750-28 UN-2A	0.843 (0.03)	1.000 (0.04)	0.750 (0.03)
14	0.805 (20.45)	0.768 (19.51)	0.800 (20.32)	1.325 [0.05]	1.0000-28 UN-2A	0.968 (0.04)	1.125 (0.04)	0.865 (0.03)

Jam-Nut Front Panel Mount Cutout Dimensions		
Shell Size	N Flat	Ø M
5	.482 (12.24) .478 (12.14)	.510 (12.95)
6	.542 (13.77) .538 (13.67)	.575 (14.60)
7	.676 (17.17) .671 (17.04)	.698 (17.73)
8	.676 (17.17) .671 (17.04)	.698 (17.73)
9	.732 (18.59) .728 (18.49)	.760 (19.30)
10	.801 (20.35) .796 (20.22)	.822 (20.88)
12	.982 (24.94) .978 (24.84)	1.010 (25.65)
14	1.032 (26.21) 1.028 (26.11)	1.075 (27.30)

Material and Finish

- Shell: aluminum alloy or CRES / see how to order table
- Insulator: high grade rigid dielectric / N.A.
- Interfacial seal, O-ring, grommet: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate
- Potting compound: epoxy / N.A.



SERIES 804 QDC PUSH-PULL Mighty Mouse Connectors and Cables PC Tail or Solder Cup Panel Mount Plugs



Environmental, PCB Plug

804-009 connectors feature low-profile shells for minimum protrusion inside enclosures and integral board standoffs. Contacts are non-removable. Specify 804-009 connectors for applications where open face water immersion is not a requirement. IP67 in the mated condition.

Water Tight PCB Plug

804-021 connectors are identical to 800-012, but are specially sealed ("MOD-518") and 100% tested to maintain a helium leak rate of less than 1×10^{-4} cc/second at one atmosphere pressure differential. Connectors meet MIL-STD-810 Method 512G immersion requirements in unmated/open face condition.

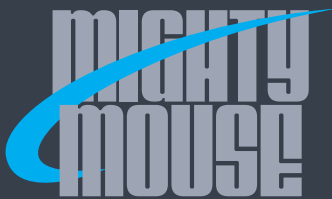
How To Order						
Sample Part Number	804-009	-07	NF	10-26	E	A
Series	804-009 = Panel Mount Plug, Standard Potting 804-021 = Panel Mount Plug, Resilient Silicone Potting for Watertight Seal from -40° to +70°C (1 ATM Pressure Differential)					
Shell Style (See Table I)	-00 = Jam-Nut, Front Panel Mount -02 = Flange Mount -07 = Jam-Nut, Rear Panel Mount					
Shell Material and Finish	C = Aluminum / Black Anodize (Non-Conductive) M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE NF = Aluminum / Cadmium with Olive Drab Chromate ZNU = Aluminum / Zinc-Nickel with Black Chromate Z1 = Stainless Steel / Passivated					
Shell Size - Insert Arrangement	See Contact Arrangements Page H-6					
Contact Type	P = Pin, PC Tail E = Pin, Solder Cup S = Socket, PC Tail F = Socket, Solder Cup Contacts are pre-installed and non-removable.					
Polarization (See Table II)	Omit = Single Master Key A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F					

Table I: Shell Style		
-00 Jam-Nut, Front Panel Mount	-07 Jam-Nut, Rear Panel Mount	-02 Flange Mount

Table II: Key Positions			
	Pos.	A°	B°
	A	150°	210°
	B	75°	210°
	C	95°	230°
	D	140°	275°
	E	75°	275°
	F	95°	210°

NOTES

1. Contacts are nonremovable and connector is back potted
2. Connector, plug mates with all push/pull high density receptacle connectors with same polarization and opposite contact gender
3. See page H-9 for recommended panel cut-outs
4. Ø.126/.130 thru-holes replace locknuts for SST shells



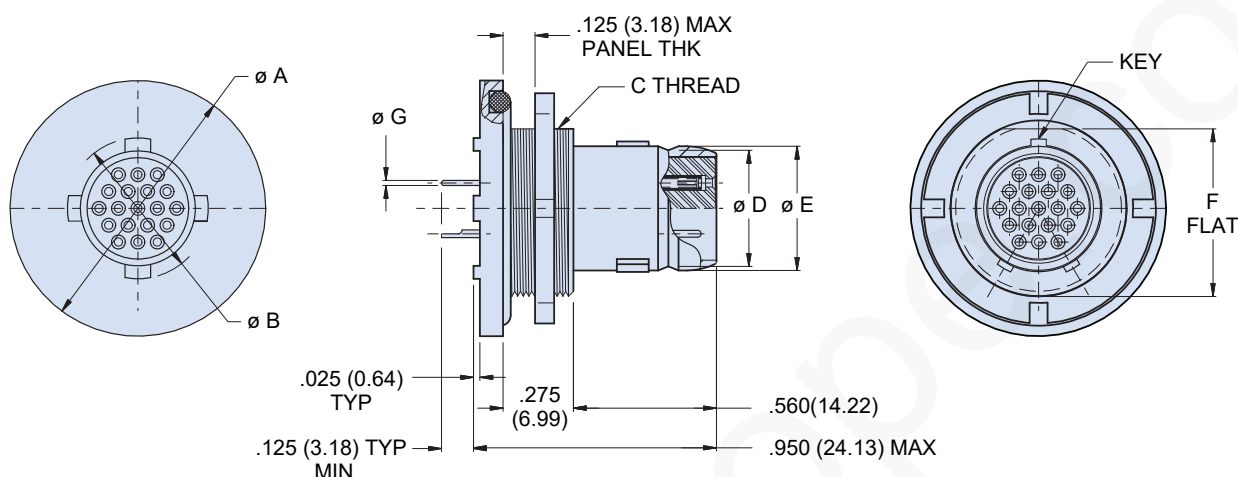
SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



PC Tail or Solder Cup Panel Mount Plugs

JAM-NUT, REAR PANEL MOUNT PLUG - SHELL STYLE 07



Dimensions							
Shell Size	Ø A	Ø B	C Threads	Ø D	Ø E	F Flat	Ø G Tail Dia.
5	.790 (20.07)	.244 (6.20)	.4375-32 UN-2A	.219 (5.56)	.250 (6.35)	.415 (10.54)	#23 .018/.022 (0.46/0.56)
6	.830 (21.08)	.330 (8.38)	.5000-32 UN-2A	.282 (7.16)	.313 (7.95)	.467 (11.86)	
7	.910 (23.11)	.432 (10.97)	.6250-28 UN-2A	.351 (8.92)	.383 (9.73)	.594 (15.09)	
8	.955 (24.26)	.493 (12.52)	.6250-28 UN-2A	.398 (10.11)	.429 (10.90)	.594 (15.09)	#20 .024/.028 (0.61/0.71)
9	1.000 (25.40)	.551 (14.00)	.6875-28 UN-2A	.454 (11.53)	.486 (12.34)	.655 (16.64)	#16 .060/.064 (1.52/1.63)
10	1.085 (27.56)	.620 (15.75)	.7500-28 UN-2A	.529 (13.44)	.563 (14.30)	.721 (18.31)	
11	1.135 (28.83)	.662 (16.81)	.8125-28 UN-2A	.587 (14.91)	.618 (15.70)	.790 (20.07)	
12	1.180 (29.97)	.703 (17.86)	.8750-28 UN-2A	.646 (16.41)	.676 (17.17)	.843 (21.41)	#12 .092/.096 (2.34/2.44)
14	1.325 (33.65)	.863 (21.92)	1.0000-28 UN-2A	.768 (19.51)	.800 (20.32)	.968 (24.59)	

Material and Finish

- Shell, jam-nut: aluminum alloy or CRES / see how to order table
- Insulator: high grade rigid dielectric / N.A.
- Interfacial seal, O-ring: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate
- Potting compound: epoxy / N.A.



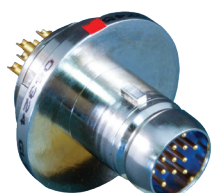
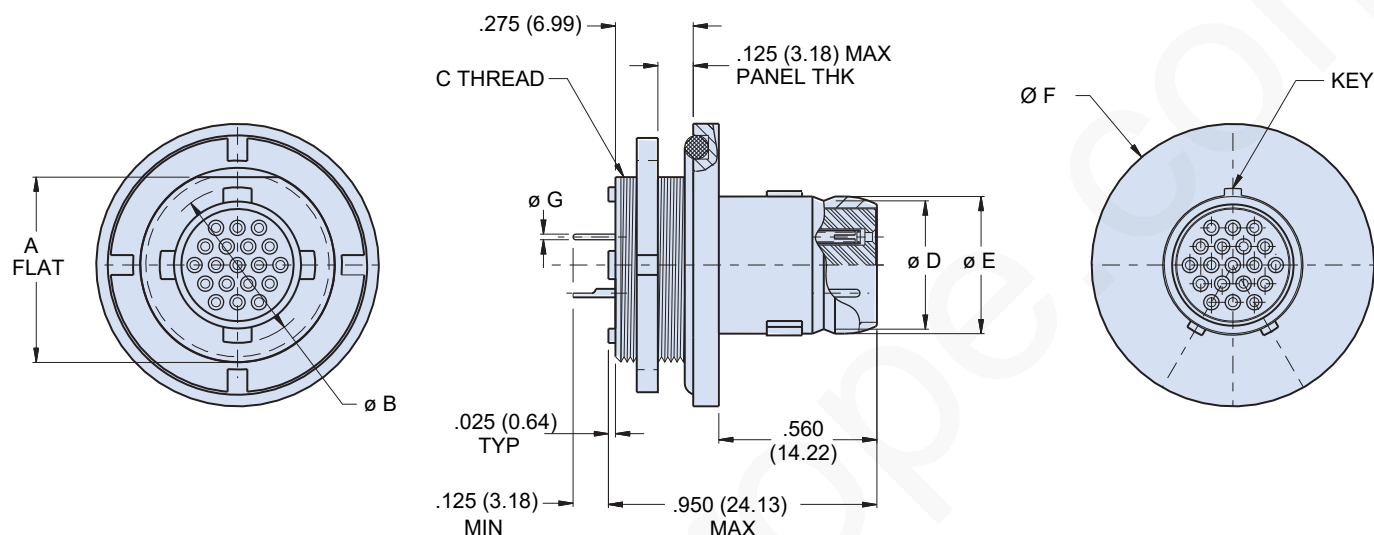
SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



PC Tail or Solder Cup Panel Mount Plugs

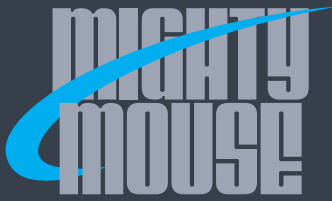
JAM-NUT, FRONT PANEL MOUNT PLUG - STYLE 00



Dimensions							
Shell Size	A Flat	Ø B	C Threads	Ø D	Ø E	Ø F	Ø G Tail Dia.
5	.415 (10.54)	.244 (6.20)	.4375-32 UN-2A	.219 (5.56)	.250 (6.35)	.790 (20.07)	#23 .018/.022 (0.46/0.56)
6	.467 (11.86)	.330 (8.38)	.5000-32 UN-2A	.282 (7.16)	.313 (7.95)	.830 (21.08)	
7	.594 (15.09)	.432 (10.97)	.6250-28 UN-2A	.351 (8.92)	.383 (9.73)	.910 (23.11)	
8	.594 (15.09)	.493 (12.52)	.6250-28 UN-2A	.398 (10.11)	.429 (10.90)	.955 (24.26)	#20 .024/.028 (0.61/0.71)
9	.655 (16.64)	.551 (14.00)	.6875-28 UN-2A	.454 (11.53)	.486 (12.34)	1.000 (25.40)	
10	.721 (18.31)	.620 (15.75)	.7500-28 UN-2A	.529 (13.44)	.563 (14.30)	1.085 (27.56)	#16 .060/.064 (1.52/1.63)
11	.790 (20.07)	.662 (16.81)	.8125-28 UN-2A	.587 (14.91)	.618 (15.70)	1.135 (28.83)	
12	.843 (21.41)	.703 (17.86)	.8750-28 UN-2A	.646 (16.41)	.676 (17.17)	1.180 (29.97)	#12 .092/.096 (2.34/2.44)
14	.968 (24.59)	.863 (21.92)	1.0000-28 UN-2A	.768 (19.51)	.800 (20.32)	1.325 (33.65)	

Material and Finish

- Shell: aluminum alloy or CRES / see how to order table
- Insulator: high grade rigid dielectric / N.A.
- Interfacial seal, O-ring: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate
- Potting compound: epoxy / N.A.



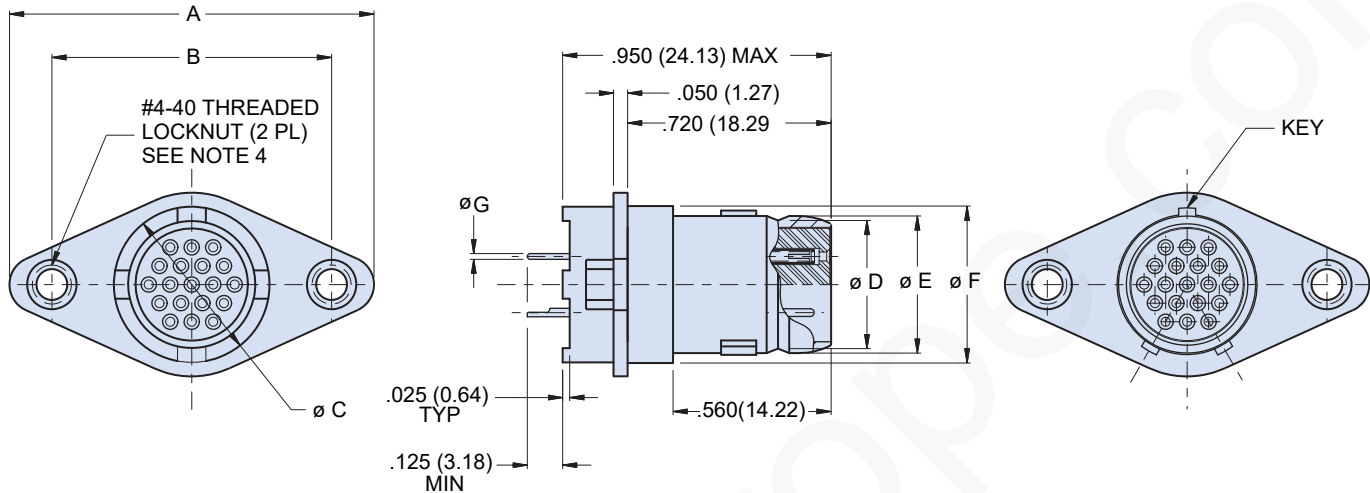
SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



PC Tail or Solder Cup Panel Mount Plugs

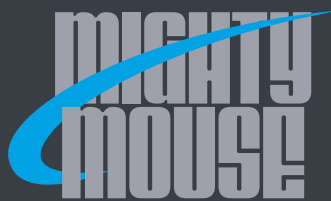
FLANGE MOUNT PLUG - STYLE 02



Dimensions							
Shell Size	A	B ±.005 (.02)	Ø C	Ø D	Ø E	Ø F	Ø G Tail Dia.
5	1.055 (26.80)	.755 (19.18)	.244 (6.20)	.219 (5.56)	.250 (6.35)	.320 (8.13)	#23 .018/.022 (0.46/0.56)
6	1.120 (28.45)	.820 (20.83)	.330 (8.38)	.282 (7.16)	.313 (7.95)	.385 (9.78)	
7	1.185 (30.10)	.885 (22.48)	.432 (10.97)	.351 (8.92)	.383 (9.73)	.450 (11.43)	
8	1.230 (31.24)	.930 (23.62)	.493 (12.52)	.398 (10.11)	.429 (10.90)	.495 (12.57)	#20 .024/.028 (0.61/0.71)
9	1.290 (32.77)	.990 (25.15)	.551 (14.00)	.454 (11.53)	.486 (12.34)	.555 (14.10)	
10	1.360 (34.54)	1.060 (26.92)	.620 (15.75)	.529 (13.44)	.563 (14.30)	.625 (15.88)	#16 .060/.064 (1.52/1.63)
11	1.420 (36.07)	1.120 (28.45)	.662 (16.81)	.587 (14.91)	.618 (15.70)	.690 (17.53)	
12	1.485 (37.72)	1.185 (30.10)	.703 (17.86)	.646 (16.41)	.676 (17.17)	.750 (19.05)	-#12 .092/.096 (2.34/2.44)
14	1.600 (40.64)	1.300 (33.02)	.863 (21.92)	.768 (19.51)	.800 (20.32)	.865 (21.97)	

Material and Finish

- Shell: aluminum alloy or CRES / see how to order table
- Insulator: high grade rigid dielectric / N.A.
- Interfacial seal, O-ring: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate
- Potting compound: epoxy / N.A.



SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Receptacles with Crimp Contacts, Integral Shield Termination Platform or Accessory Threads



Series 804 Panel Mount and Inline Receptacles

Feature integral band platform or accessory thread. Choose band platform for direct attachment of cable shield and boot, or overmold directly onto the band platform. Select accessory thread for attachment of backshells. Three shell styles including front or rear panel mount jam-nut and in-line cable receptacles. Fluorosilicone interfacial seal, O-ring and grommet provide IP67 sealing mated. Gold-plated spring provides secure mechanical retention and low shell-to-shell resistance for excellent EMI shielding. Crimp removable contacts are copper alloy and gold plated.

How To Order						
Sample Part Number		804-003	-01	M	7-10	P
Series (See Table I)	804-003 = Receptacle with Banding Platform 804-004 = Receptacle with Accessory Thread					
Shell Style (See Table II)	-00 = Front Panel Mount Jam-Nut -01 = In-Line -07 = Rear Panel Mount Jam-Nut					
Shell Material and Finish	C = Aluminum / Black Anodize (Non-Conductive) M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE NF = Aluminum / Cadmium with Olive Drab Chromate ZNU = Aluminum / Zinc-Nickel with Black Chromate Z1 = Stainless Steel / Passivated					
Shell Size - Insert Arrangement	See Contact Arrangements Page H-6					
Contact Type	Connector supplied without contacts A = Pin, Crimp B = Socket, Crimp		Connector supplied with contacts P = Pin Connector S = Socket Connector	Connector Supplied with 30 AWG Crimp Barrel G = Pin, Crimp H = Socket, Crimp	Connectors with contacts are supplied with crimp contacts. Contacts not installed. For Coax contacts, order contacts separately and order connector without contacts.	
Polarization (See Table III)	Omit = Single Master Key A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F					

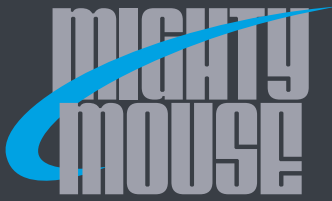
Table I: Series	
804-003 Receptacle with Banding Platform	804-004 Receptacle with Accessory Thread

Table II: Shell Style		
-00 Jam-Nut for Front Panel Mounting	-01 In-Line for Free-Hanging Cable	-07 Jam-Nut for Rear Panel Mounting

Table III: Keyway Positions		
Pos.	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

NOTES

1. Contacts are crimp type, and used in a rear release retention system
2. Receptacle connector mates with all push/pull high density plug connectors with same polarization and opposite contact gender
3. Grommet protrudes for power/combo arrangements
4. See page H-9 for recommended panel cut-outs



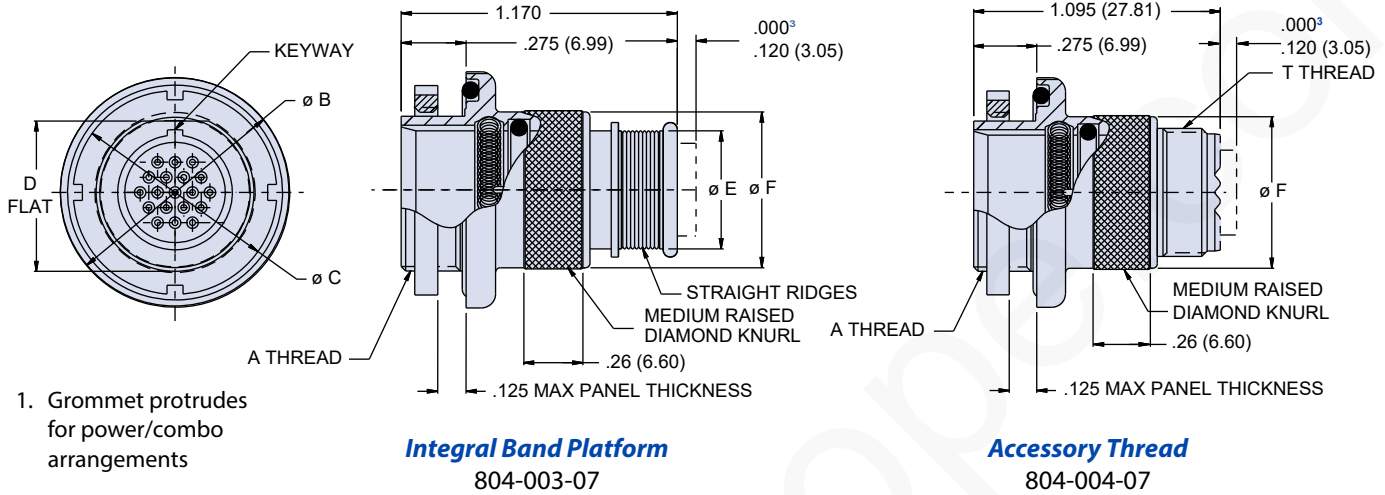
SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



RPM Jam-Nut with Crimp Contacts, Integral Shield Termination Platform or Accessory Threads

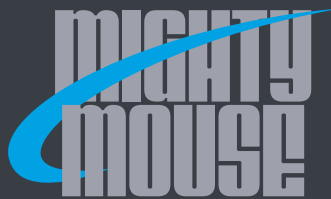
JAM-NUT, REAR PANEL MOUNT RECEPTACLE - SHELL STYLE 07



Dimensions							
Shell Size	A Thread	Ø B	Ø C	D Flat	Ø E	Ø F	T Threads
5	.4375-32 UN-2A	.760 (19.30)	.562 (14.27)	.415 (10.54)	.246 (6.25)	.450 (11.43)	.2500-32 UNEF-2A
6	.5000-32 UN-2A	.825 (20.96)	.625 (15.88)	.467 (11.86)	.286 (7.26)	.480 (12.19)	.3125-32 UNEF-2A
7	.6250-28 UN-2A	.900 (22.86)	.750 (19.05)	.594 (15.09)	.390 (9.91)	.580 (14.73)	.4375-28 UNEF-2A
8	.6250-28 UN-2A	.945 (24.00)	.750 (19.05)	.594 (15.09)	.442 (11.23)	.603 (15.32)	.5000-28 UNEF-2A
9	.6875-28 UN-2A	1.000 (25.40)	.812 (20.62)	.655 (16.64)	.500 (12.70)	.690 (17.53)	.5625-24 UNEF-2A
10	.7500-28 UN-2A	1.075 (27.30)	.875 (22.23)	.721 (18.31)	.564 (14.33)	.735 (18.67)	.6250-24 UNEF-2A
11	.8125-28 UN-2A	1.135 (28.83)	.938 (23.83)	.790 (20.02)	.608 (15.44)	.810 (20.57)	.6875-24 UNEF-2A
12	.8750-28 UN-2A	1.190 (30.23)	1.000 (25.40)	.843 (21.41)	.650 (16.51)	.880 (22.35)	.6875-24 UNEF-2A
14	1.0000-28 UN-2A	1.312 (33.65)	1.125 (28.58)	.968 (24.59)	.805 (20.45)	.973 (24.71)	.9375-20 UNEF-2A

Material and Finish

- Shell, jam-nut: aluminum alloy or CRES / see how to order table
- Insulator: high grade rigid dielectric
- Interfacial seal, O-ring, grommet: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate
- Spring: CRES / gold plated



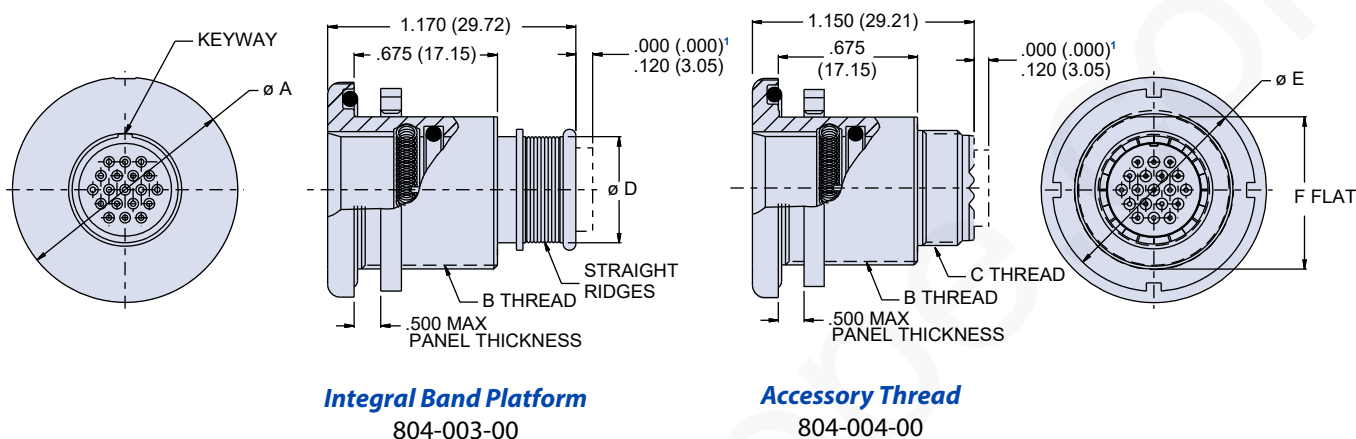
SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



FPM Jam-Nut with Crimp Contacts, Integral Shield Termination Platform or Accessory Threads

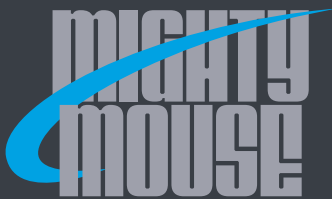
JAM-NUT, FRONT PANEL MOUNT RECEPTACLE - SHELL STYLE 00



Dimensions						
Shell Size	Ø A	B Threads	C Threads	Ø D	Ø E	F Flat
5	.830 (21.08)	.5000-32 UN-2A	.2500-32 UNEF-2A	.246 (6.25)	.625 (15.88)	.470 (11.94)
6	.885 (22.48)	.5625-32 UN-2A	.3125-32 UNEF-2A	.286 (7.26)	.688 (17.48)	.530 (13.46)
7	.995 (25.27)	.6875-28 UN-2A	.4375-28 UNEF-2A	.390 (9.91)	.812 (20.62)	.663 (16.84)
8	.995 (25.27)	.6875-28 UN-2A	.5000-28 UNEF-2A	.442 (11.23)	.812 (20.62)	.663 (16.84)
9	1.065 (27.05)	.7500-28 UN-2A	.5625-24 UNEF-2A	.500 (12.70)	.875 (22.23)	.715 (18.16)
10	1.140 (28.96)	.8125-28 UN-2A	.6250-24 UNEF-2A	.564 (14.33)	.938 (23.83)	.790 (20.07)
11	1.190 (30.23)	.8750-28 UN-2A	.6875-24 UNEF-2A	.608 (15.44)	1.000 (25.40)	.843 (21.41)
12	1.340 (34.04)	1.0000-28 UN-2A	.6875-24 UNEF-2A	.650 (16.51)	1.125 (28.58)	.972 (24.69)
14	1.390 (35.31)	1.0620-20 UN-2A	.9375-20 UNEF-2A	.805 (20.45)	1.162 (29.51)	1.022 (25.96)

Material and Finish

- Shell: aluminum alloy or CRES / see how to order table
- Insulator: high grade rigid dielectric
- Interfacial seal, O-ring, grommet: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate
- Spring: CRES / gold plated



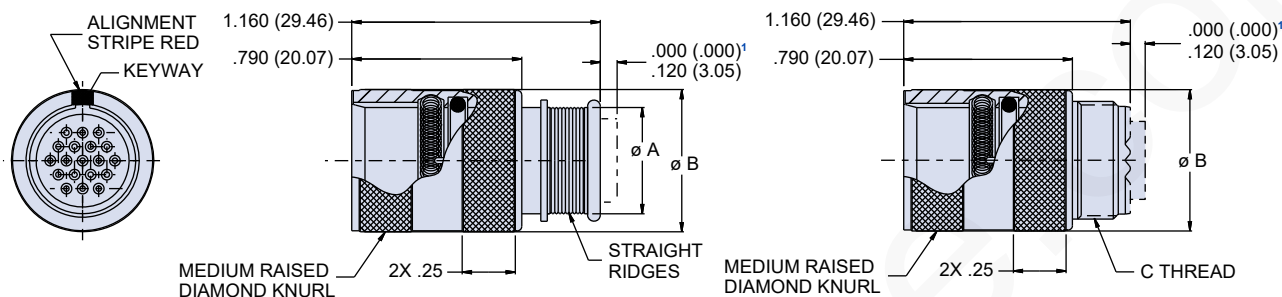
SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Cable Receptacles with Crimp Contacts, Integral Shield Termination Platform or Accessory Threads

CABLE RECEPTACLE - SHELL STYLE 01



Integral Band Platform

804-003-01

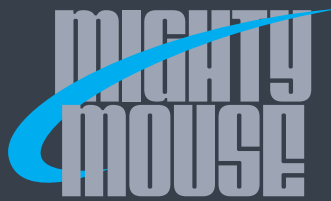
Accessory Thread

804-004-01

Dimensions			
Shell Size	Ø A	Ø B	C Threads
5	.246 (6.25)	.450 (11.43)	.2500-32 UNEF-2A
6	.286 (7.26)	.480 (12.19)	.3125-32 UNEF-2A
7	.390 (9.91)	.580 (14.73)	.4375-28 UNEF-2A
8	.442 (11.23)	.603 (15.32)	.5000-28 UNEF-2A
9	.500 (12.70)	.690 (17.53)	.5625-24 UNEF-2A
10	.564 (14.33)	.735 (18.67)	.6250-24 UNEF-2A
11	.608 (15.44)	.810 (20.57)	.6875-24 UNEF-2A
12	.650 (16.51)	.880 (22.35)	.6875-24 UNEF-2A
14	.805 (20.45)	.973 (24.71)	.9375-20 UNEF-2A

Material and Finish

- Shell: aluminum alloy or CRES/ see how to order table
- Insulator: high grade rigid dielectric
- Interfacial seal, O-ring, grommet: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate
- Spring: CRES / gold plated



SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Lanyard-Release Crimp Removable Contact Receptacle with Accessory Threads



Series 804 Lanyard-Release Receptacle

Quick-release lanyard-equipped push/pull receptacles provide unparalleled disengagement performance. Low separation force design provides "quick disconnect" of mated connector receptacle with a simple axial pull on the lanyard. Rear accessory thread allows for addition of connector backshells or adapters. Conductive finishes available

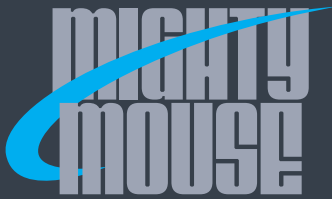
How To Order							
Sample Part Number		804-114	-01	M	6-7	P	A 6
Series	804-114 = 804 Push / Pull Receptacle with Lanyard						
Shell Style	-01 = Receptacle with accessory thread						
Shell Material and Finish	C = Aluminum / Black Anodize (Non-Conductive) M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE NF = Aluminum / Cadmium with Olive Drab Chromate ZN = Aluminum / Zinc-Nickel with Olive Drab Chromate ZNU = Aluminum / Zinc-Nickel with Black Chromate Z1 = Stainless Steel / Passivated						
Shell Size - Insert Arrangement	Available in Shell Sizes 5 thru 14. See Contact Arrangements Page H-6						
Contact Style	Connector supplied with contacts P = Pin, Crimp S = Socket, Crimp Connector supplied without contacts A = Pin Connector B = Socket Connector Connector Supplied with 30 AWG Barrel G = Pin, Crimp H = Socket, Crimp Connectors with contacts are supplied with crimp contacts. Contacts not installed. For Coax contacts, order contacts separately and order connector without contacts.						
Polarization (See Table I)	Omit = Single Key (non polarized) A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F						
Lanyard Length	1 = 1 inch; Lanyard Length In Inches $\pm .500$						

NOTES

- Contacts are size 23 crimp type, and are used in a rear release retention system
- Crimp barrel accommodates 22, 24, 26, 28 and 30 (contact style G and H) gage wire.
- Crimp tool data:
 - Crimp frame: M22520/2-01
 - Positioner for use with crimp frame: Glenair part number 809-005
 - Insertion/extraction tool: Glenair part number 809-088
- This connector, plug mates with all push/pull high density receptacle connectors with same polarization and opposite contact gender (804-001, 804-002, 804-113)
- Red stripe indicator for alignment during mating
- Connector releases from 0° to 15°, 15° release force will vary

Table I: Keyway Positions

Key Position	Key Rotation	
	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°



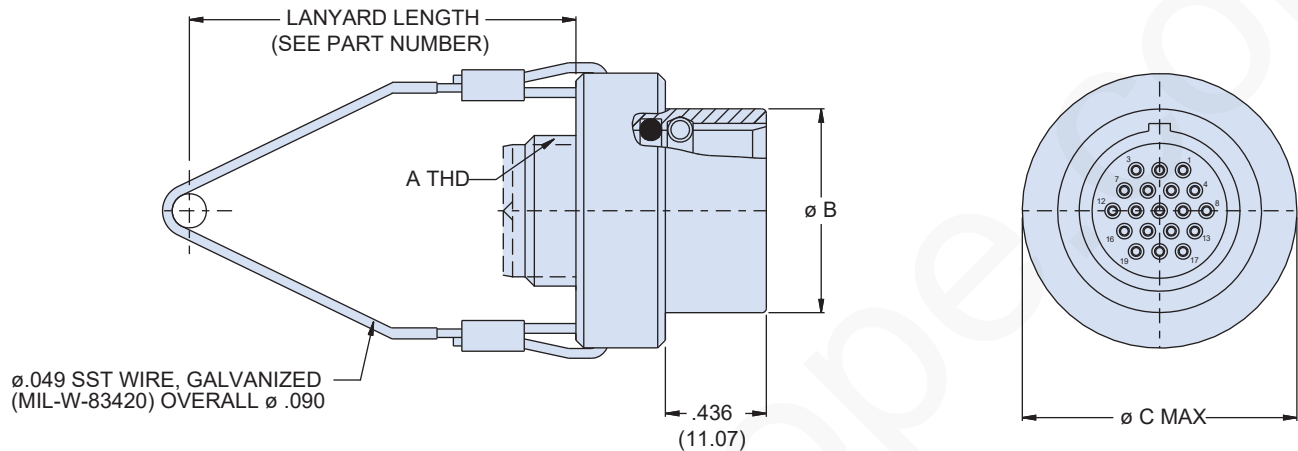
SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Lanyard-Release Crimp Removable Contact Receptacle with Accessory Threads

QUICK RELEASE LANYARD RECEPTACLE - SHELL STYLE 01



Dimensions			
Shell Size	A Thread	Ø B	Ø C MAX
5	.250-32 UNEF	0.450 (11.43)	0.812 (20.62)
6	.3125-32 UNEF	0.480 (12.19)	0.875 (22.23)
7	.4375-28 UNEF	0.580 (14.73)	0.938 (23.83)
8	.500-28 UNEF	0.600 (15.24)	1.000 (25.40)
9	.5265-24 UNEF	0.690 (17.53)	1.062 (26.97)
10	.6250-24 UNEF	0.735 (18.67)	1.125 (28.58)
11	.6875-24 UNEF	0.788 (20.02)	1.188 (30.18)
12	.6875-24 UNEF	0.880 (22.35)	1.250 (31.75)
14	.9375-20 UNEF	0.973 (24.71)	1.375 (34.92)

Material and Finish

- Shell: aluminum alloy or CRES / see how to order table
- Insulator: high grade rigid dielectric / N.A.
- Interfacial seal, grommet seal: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate

SERIES 804 QDC PUSH-PULL



SERIES 804 QDC PUSH-PULL Mighty Mouse Connectors and Cables



Front or Rear Panel Mount Receptacles with PC Tails or Solder Cups



Panel Mount Receptacles

Quick Disconnect Connectors (QDC) feature factory-installed non-removable contacts. Choose solder cup or PC Tail terminals. Available in front or rear panel mount versions. Specify **804-005** connectors for applications where open face water immersion is not a requirement. For MIL-STD-810 Method 512G immersion requirements, specify **804-020** watertight connectors. These 804-020 connectors are specially sealed ("MOD-518") and are 100% tested to meet 1 X 10⁻⁴ ccHe/second @ 1 atmosphere.

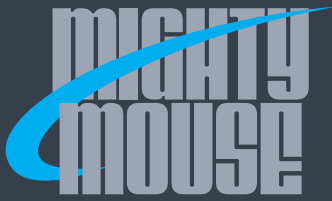
How To Order						
Sample Part Number	804-005	-07	NF	9-4	E	A
Series	804-005 = Solder Cup or PCB Receptacle with Standard Potting 804-020 = Solder Cup or PCB Receptacle with Special "MOD-518" Sealing for Open Face (Unmated) Water Immersion Requirements. 100% Leak Tested.					
Shell Style (See Table I)	-00 = Jam-Nut, Front Panel Mount -07 = Jam-Nut, Rear Panel Mount					
Shell Material and Finish	C = Aluminum / Black Anodize (Non-Conductive) M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE NF = Aluminum / Cadmium with Olive Drab Chromate ZNU = Aluminum / Zinc-Nickel with Black Chromate Z1 = Stainless Steel / Passivated					
Shell Size - Insert Arrangement	See Contact Arrangements Page H-6					
Contact Type	P = Pin, PC Tail E = Pin, Solder Cup S = Socket, PC Tail F = Socket, Solder Cup					
Polarization (See Table II)	Omit = Single Master Key A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F					

Table I: Shell Style	
-00 Jam-Nut, Front Panel Mount	-07 Jam-Nut, Rear Panel Mount

Table II: Keyway Positions			
Pos.	A°	B°	
A	150°	210°	
B	75°	210°	
C	95°	230°	
D	140°	275°	
E	75°	275°	
F	95°	210°	

NOTES

1. Contacts are nonremovable
2. Receptacle connector mates with all push/pull high density plug connectors with same polarization and opposite contact gender
3. See page H-9 for recommended panel cut-outs
4. Hermeticity of 804-020 is rated at a helium leak rate of 10⁻⁴ ccHe/sec @ 1 atm



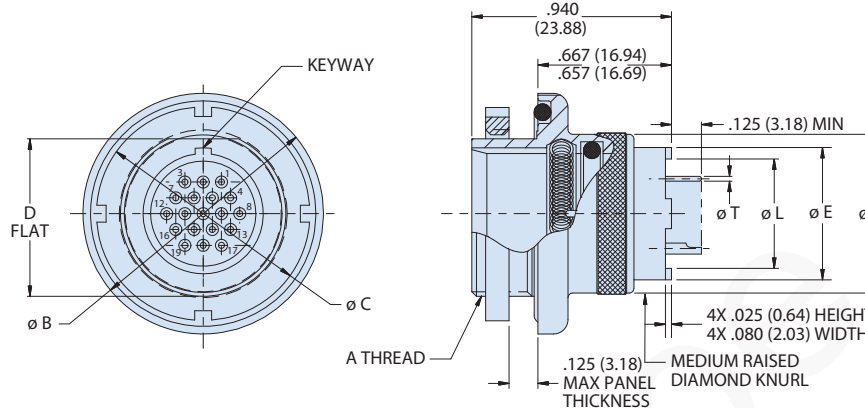
SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Front or Rear Panel Mount Receptacles with
PC Tails or Solder Cups

JAM-NUT, REAR PANEL MOUNT RECEPTACLE - STYLE 07



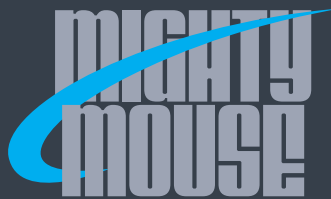
Dimensions									
Shell Size	A Thread	ø B	ø C	D-Flat	ø E	ø F	J Flat	ø L	ø T
5	.4375-32 UN-2A	0.730 (18.54)	0.562 (14.27)	0.415 (10.54)	0.244 (6.20)	0.435 (11.05)	0.470 (11.94)	0.176 (4.47)	#23 .018/.022 (0.46/0.56)
6	.5000-32 UN-2A	0.730 (18.54)	0.625 (15.88)	0.467 (11.86)	0.330 (8.38)	0.483 (12.27)	0.530 (13.46)	0.239 (6.07)	
7	.6250-28 UN-2A	0.910 (23.11)	0.750 (19.05)	0.594 (15.09)	0.432 (10.97)	0.570 (14.48)	0.663 (16.84)	0.325 (8.25)	
8	.6250-28 UN-2A	0.955 (24.26)	0.750 (19.05)	0.594 (15.09)	0.493 (12.52)	0.593 (15.06)	0.663 (16.84)	0.389 (9.88)	#20 .024/.028 (0.61/0.71)
9	.6875-28 UN-2A	1.000 (25.40)	0.812 (20.62)	0.655 (16.64)	0.551 (14.00)	0.685 (17.40)	0.720 (18.29)	0.447 (11.35)	
10	.7500-28 UN-2A	1.085 (27.56)	0.875 (22.23)	0.721 (18.31)	0.620 (15.75)	0.725 (18.42)	0.788 (20.02)	0.516 (13.11)	#16 .060/.064 (1.52/1.63)
11	.8125-28 UN-2A	1.135 (28.83)	0.938 (23.83)	0.788 (20.02)	0.662 (16.81)	0.810 (20.57)	0.843 (21.41)	0.558 (14.17)	
12	.8750-28 UN-2A	1.190 (30.23)	1.000 (25.40)	0.843 (21.41)	0.703 (17.86)	0.850 (21.59)	0.970 (24.64)	0.599 (15.21)	#12 .092/.096 (2.34/2.44)
14	1.0000-28 UN-2A	1.325 (33.65)	1.125 (28.58)	0.968 (24.59)	0.863 (21.92)	0.973 (24.71)	1.020 (25.91)	0.759 (19.28)	
15	1.0625-20 UN-2A	1.375 (34.92)	1.188 (30.18)	1.029 (26.14)	0.912 (23.16)	1.028 (26.11)	1.093 (27.76)	0.808 (20.52)	

Material and Finish

- Shell, jam nut: al alloy or cres / see Series 80 catalog
- Insulators : high grade rigid dielectric / N.A.
- Interfacial seal, o-ring : fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, type II, code c,
- Class 1.25 (.00005 Min thk), over a suitable underplate.
- Detent spring : cres / gold plated
- Potting compound : epoxy / N.A.

Recommended Panel Cutout for Rear Mount Jam Nut Receptacle			
	Shell Size	M Flat	ø N
	5	0.427 (10.85); 0.423 (10.74)	0.448 (11.38)
	6	0.479 (12.17); 0.475 (12.07)	0.510 (12.95)
	7	0.606 (15.39); 0.601 (15.27)	0.635 (16.13)
	8	0.606 (15.39); 0.602 (15.29)	0.635 (16.13)
	9	0.667 (16.94); 0.663 (16.84)	0.695 (17.65)
	10	0.734 (18.64); 0.729 (18.52)	0.760 (19.30)
	11	0.801 (20.35); 0.796 (20.22)	0.822 (20.88)
	12	0.855 (21.72); 0.851 (21.62)	0.885 (22.48)
	14	0.980 (24.89); 0.976 (24.79)	1.010 (25.65)
	15	1.041 (26.44); 1.037 (26.34)	1.070 (27.18)

SERIES 804 QDC PUSH-PULL



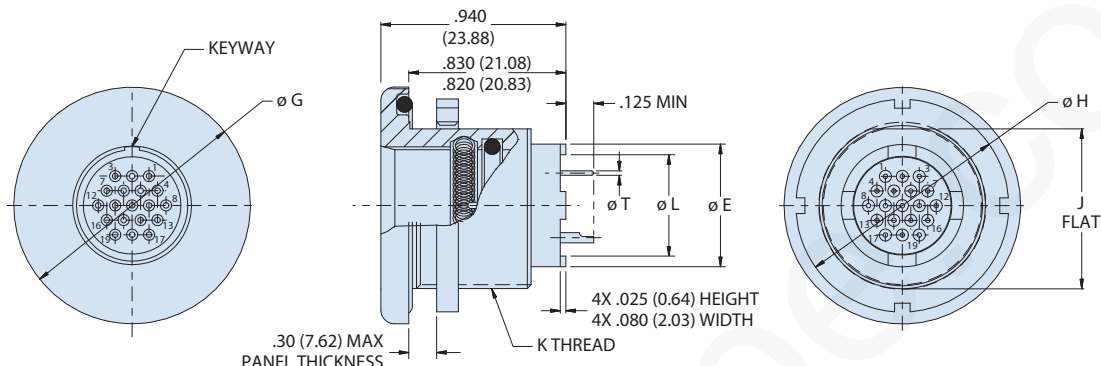
SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Front or Rear Panel Mount Receptacles with PC Tails or Solder Cups

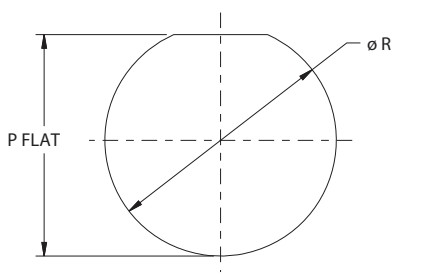
JAM-NUT, FRONT PANEL MOUNT RECEPTACLE - STYLE 00

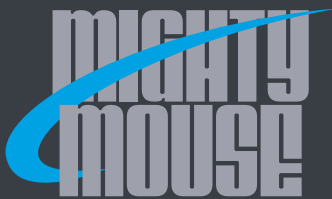


Dimensions							
Shell Size	K Thread	ø E	ø G	ø H	J Flat	ø L	ø T
5	.5000-32 UN-2A	0.244 (6.20)	0.885 (22.48)	0.625 (15.88)	0.470 (11.94)	0.176 (4.47)	#23 .018/.022 (0.46/0.56)
6	.5625-32 UN-2A	0.330 (8.38)	0.885 (22.48)	0.688 (17.48)	0.530 (13.46)	0.239 (6.07)	
7	.6875-28 UN-2A	0.432 (10.97)	0.995 (25.27)	0.812 (20.62)	0.663 (16.84)	0.325 (8.25)	
8	.6875-28 UN-2A	0.493 (12.52)	0.995 (25.27)	0.812 (20.62)	0.663 (16.84)	0.389 (9.88)	#20 .024/.028 (0.61/0.71)
9	.7500-28 UN-2A	0.551 (14.00)	1.075 (27.30)	0.875 (22.23)	0.720 (18.29)	0.447 (11.35)	
10	.8125-28 UN-2A	0.620 (15.75)	1.140 (28.96)	0.938 (23.83)	0.788 (20.02)	0.516 (13.11)	
11	.8750-28 UN-2A	0.662 (16.81)	1.190 (30.23)	1.000 (25.40)	0.843 (21.41)	0.558 (14.17)	#16 .060/.064 (1.52/1.63)
12	1.000-28 UN-2A	0.703 (17.86)	1.340 (34.04)	1.125 (28.58)	0.970 (24.64)	0.599 (15.21)	
14	1.062-20 UN-2A	0.863 (21.92)	1.390 (35.31)	1.162 (29.51)	1.020 (25.91)	0.759 (19.28)	
15	1.125-28 UN-2A	0.912 (23.16)	1.450 (36.83)	1.250 (31.75)	1.093 (27.76)	0.808 (20.52)	#12 .092/.096 (2.34/2.44)

Material and Finish

- Shell, jam nut: al alloy or cres / see Series 80 catalog
- Insulators : high grade rigid dielectric / N.A.
- Interfacial seal, o-ring : fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, type II, code c,
- Class 1.25 (.00005 Min thk), over a suitable underplate.
- Detent spring : cres / gold plated
- Potting compound : epoxy / N.A.

Recommended Panel Cutout for Rear Mount Jam Nut Receptacle			
	Shell Size	P Flat	ø R
	5	0.482 (12.24); 0.478 (12.14)	0.510 (12.95)
	6	0.542 (13.77); 0.538 (13.67)	0.575 (14.60)
	7	0.676 (17.17); 0.671 (17.04)	0.698 (17.73)
	8	0.676 (17.17); 0.671 (17.04)	0.698 (17.73)
	9	0.732 (18.59); 0.728 (18.49)	0.760 (19.30)
	10	0.801 (20.35); 0.796 (20.22)	0.822 (20.88)
	11	0.855 (21.72); 0.851 (21.62)	0.885 (22.48)
	12	0.982 (24.94); 0.978 (24.84)	1.010 (25.65)
	14	1.032 (26.21); 1.028 (26.11)	1.075 (27.30)
	15	1.015 (25.78); 1.011 (25.68)	1.135 (28.83)



SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



PCB Receptacle with PC Tails or Solder Cup Contacts and Ground Pins



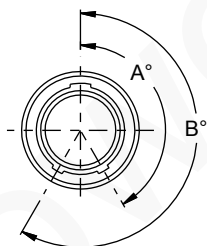
Series 804 PC Tail or Solder Cup Contact Receptacle with Ground Pins

Connector features copper alloy, gold plated PC tails or solder cup contacts. Ground pins are pressed into the shell body to provide a direct grounding path from the connector shell to the PCB board creating a common ground path for the connector, the panel it is mounted against, and printed circuit board. "Push-Pull" quick-disconnect canted coil spring securely retains mating plug connector and provides low shell-to-shell resistance for excellent EMI shielding. O-ring inside receptacle shell provides water-tight seal when mated. Two shell styles available — rear panel mount jam-nut or front panel mount jam-nut available. PC tail contacts for attachment to flex or rigid circuit boards. Choose solder cups for connections between devices, PCB's and discrete instruments

How To Order

Sample Part Number		804-032	-07	M	6-4	P	A
Series	804-032 = PCB Receptacle with PC Tail or Solder Cup Contacts						
Shell Style	-00 = Jam-Nut, Front Panel Mount -07 = Jam-Nut, Rear Panel Mount						
Material and Finish	C = Black Anodize M = Aluminum / Electroless Nickel NF = Aluminum / Cadmium with Olive Drab Chromate ZN = Aluminum / Zinc-Nickel Olive Drab over Electroless Nickel						
Shell Size - Insert Arrangement	See Contact Arrangements page E-7						
Contact Type	P = Pin, PC Tail E = Pin, Solder Cup S = Socket, PC Tail F = Socket, Solder Cup						
Polarization (See Table I)	A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F Omit character for single keyway (non-polarized)						

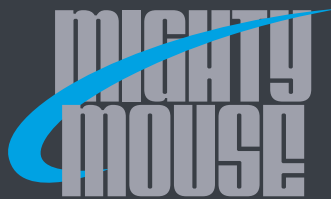
Table I: Keyway Positions



Position	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

NOTES

1. Contacts are non removable, the connector is back potted
2. This receptacle connector mates with all quick coupling high density plug connectors with same polarization and opposite contact gender (804-001, 804-002)
3. See page H-9 for panel cut-out dimensions
4. Material / finish:
 - Shell, jam-nut: aluminum alloy or CRES / N.A.
 - Insulator: high-grade rigid dielectric
 - Interfacial seal, O-ring: fluorosilicone
 - Contact, ground pins: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25 (.00005 minimum thickness), over a suitable underplate
 - Potting compound: epoxy / N.A.

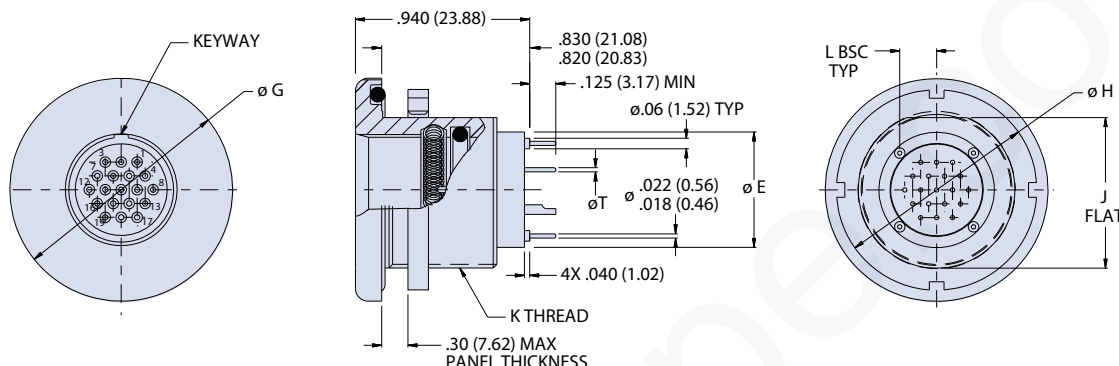


SERIES 804 QDC PUSH-PULL Mighty Mouse Connectors and Cables



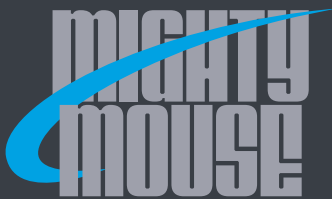
PCB Receptacle with PC Tails or Solder Cup Contacts and Ground Pins

JAM-NUT, FRONT PANEL MOUNT RECEPTACLE - STYLE 00



Dimensions						
SHELL SIZE	ø E	ø G	ø H	J FLAT	K THREAD	L BSC
5	0.336 (8.53)	0.830 (21.08)	0.625 (15.88)	0.470 (11.94)	.5000-32 UN-2A	0.087 (2.21)
6	0.398 (10.11)	0.885 (22.48)	0.688 (17.48)	0.530 (13.46)	.5625-28 UN-2A	0.109 (2.77)
7	0.486 (12.34)	0.995 (25.27)	0.812 (20.62)	0.663 (16.84)	.6875-28 UN-2A	0.147 (3.73)
8	0.548 (13.92)	0.995 (25.27)	0.812 (20.62)	0.663 (16.84)	.6875-28 UN-2A	0.165 (4.19)
9	0.606 (15.39)	1.075 (27.30)	0.875 (22.23)	0.720 (18.29)	.7500-28 UN-2A	0.186 (4.72)
10	0.675 (17.15)	1.140 (28.96)	0.938 (23.83)	0.788 (20.02)	.8125-28 UN-2A	0.210 (5.33)
11	0.717 (18.21)	1.190 (30.23)	1.000 (25.40)	0.843 (21.41)	.8750-28 UN-2A	0.222 (5.64)
12	0.758 (19.25)	1.340 (34.04)	1.125 (28.58)	0.970 (24.64)	1.000-28 UN-2A	0.239 (6.07)
14	0.918 (23.32)	1.390 (35.31)	1.162 (29.51)	1.020 (25.91)	1.062-20 UN-2A	0.296 (7.52)

PC Tail Diameters	
Contact Size	ØT
#23	.022 (0.56)
	.018 (0.46)
#20	.028 (0.71)
	.024 (0.61)
#16	.064 (1.63)
	.060 (1.52)
#12	.096 (2.44)
	.092 (2.34)



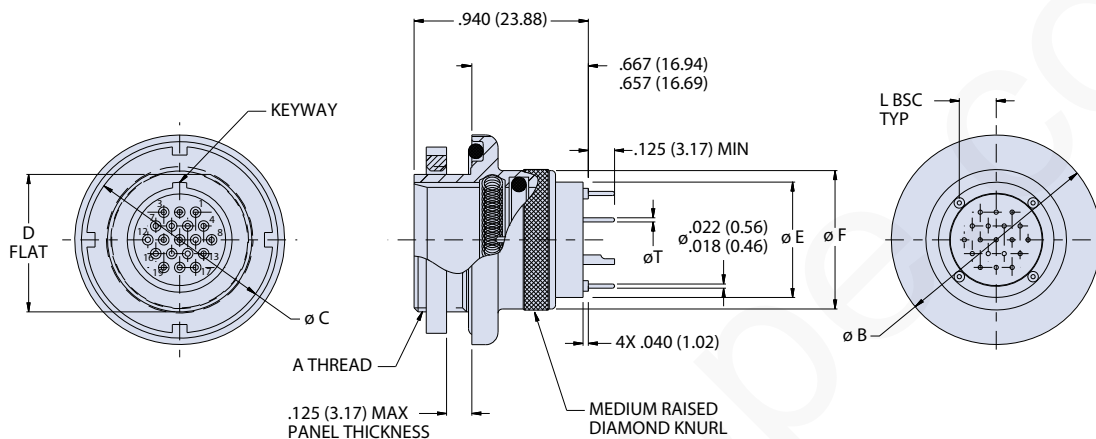
SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



PCB Receptacle with PC Tails or Solder Cup
Contacts and Ground Pins

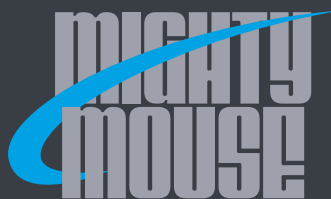
JAM-NUT, REAR PANEL MOUNT RECEPTACLE - STYLE 07



Dimensions							
SHELL SIZE	A THREAD	ø B	ø C	D FLAT	ø E	ø F	L BSC
5	.4375-32 UN-2A	0.730 (18.54)	0.562 (14.27)	0.415 (10.54)	0.336 (8.53)	0.435 (11.05)	0.087 (2.21)
6	.5000-32 UN-2A	0.730 (18.54)	0.625 (15.88)	0.467 (11.86)	0.398 (10.11)	0.483 (12.27)	0.109 (2.77)
7	.6250-28 UN-2A	0.910 (23.11)	0.750 (19.05)	0.594 (15.09)	0.486 (12.34)	0.570 (14.48)	0.147 (3.73)
8	.6250-28 UN-2A	0.955 (24.26)	0.750 (19.05)	0.594 (15.09)	0.548 (13.92)	0.593 (15.06)	0.165 (4.19)
9	.6875-28 UN-2A	1.000 (25.40)	0.812 (20.62)	0.655 (16.64)	0.606 (15.39)	0.685 (17.40)	0.186 (4.72)
10	.7500-28 UN-2A	1.085 (27.56)	0.875 (22.23)	0.721 (18.31)	0.675 (17.15)	0.725 (18.42)	0.210 (5.33)
11	.8125-28 UN-2A	1.135 (28.83)	0.938 (23.83)	0.788 (20.02)	0.717 (18.21)	0.810 (20.57)	0.222 (5.64)
12	.8750-28 UN-2A	1.190 (30.23)	1.000 (25.40)	0.843 (21.41)	0.758 (19.25)	0.880 (22.35)	0.239 (6.07)
14	1.0000-28 UN-2A	1.325 (33.65)	1.125 (28.58)	0.968 (24.59)	0.918 (23.32)	0.973 (24.71)	0.296 (7.52)

PC Tail Diameters	
Contact Size	ØT
#23	.022 (0.56)
	.018 (0.46)
#20	.028 (0.71)
	.024 (0.61)
#16	.064 (1.63)
	.060 (1.52)
#12	.096 (2.44)
	.092 (2.34)

SERIES 804 QDC PUSH-PULL



SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Light Weight, Hermetic Jam-Nut Mount
Receptacles with PC Tails or Solder Cups

CODE RED™



CODE RED Light Weight Hermetic Panel Mount Receptacles

Quick Disconnect Series 804 Hermetic Connectors feature aluminum shells with advanced encapsulant sealing technology and gold-plated copper contacts. Contacts are factory-installed and non-removable. Choose solder cup or PC Tail terminals. Front or rear jam-nut panel mount versions available. Select front panel mount to reduce snagging and lower profile, or choose rear panel mount style where space within a box enclosure is limited. 100% tested to meet 1×10^{-7} ccHe/sec @ 1 atm helium leak rate. Operating temperature range of -65°C to +200° C. Coil spring securely retains mating plug connector and provides low shell-to-shell resistance for excellent EMI shielding. Not for use in liquid environments.

How To Order						
Sample Part Number	804-140	-07	ZNU	6-4	P	N
Series	804-140 = Hermetic Receptacle					
Shell Style (See Table I)	-00 = Jam-Nut, Front Panel Mount -07 = Jam-Nut, Rear Panel Mount					
Shell Material and Finish	M = Aluminum / Electroless Nickel ME = Aluminum / Electroless Nickel, Thick NF = Aluminum / Cadmium-Nickel / Olive Drab ZN = Aluminum / Zinc-Nickel / Olive Drab ZNU / ZR = Aluminum / Zinc-Nickel / Black Chromate					
Shell Size - Insert Arrangement	See Contact Arrangements Page H-6					
Contact Type	E = Pin, Solder Cup P = Pin, PC Tail F = Socket, Solder Cup S = Socket, PC Tail					
Polarization (See Table II)	Omit = Single Master Key A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F					

NOTES

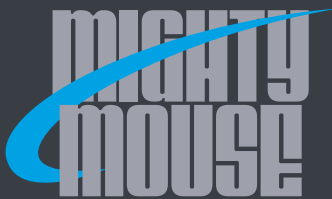
1. Red Stripe indicator for alignment during mating
2. Contacts are non removable
3. Receptacle connector mates with all push/pull high density plug connectors with same polarization and opposite contact gender, 804-001, 804-002, 804-009, 804-006, and 804-080.
4. See page H-9 for recommended panel cut-outs
5. Performances:
 - temperature range:-65°C to +200°C
 - Hemeticity: -1×10^{-7} cc He/sec @ 1 ATM differential
 - DWM: 750 VAC @ seal level
 - IR: 5000 megohms @ 500 VDC minimum, room temperature
 - Connector shall not be used in liquid environment

Table I: Shell Style

-00 Jam-Nut, Front Panel Mount	-07 Jam-Nut, Rear Panel Mount

Table II: Keyway Positions

	Pos.	A°	B°
	A	150°	210°
	B	75°	210°
	C	95°	230°
	D	140°	275°
	E	75°	210°
	F	95°	210°



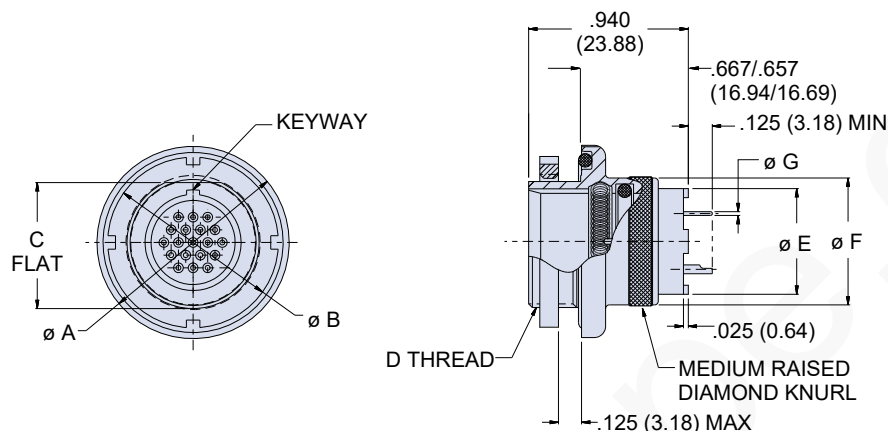
SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Light Weight, Hermetic Jam-Nut Mount
Receptacles with PC Tails or Solder Cups

JAM-NUT, REAR PANEL MOUNT RECEPTACLE - SHELL STYLE 07

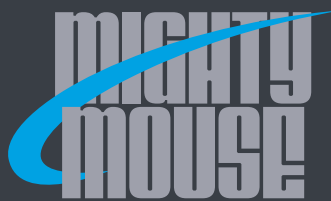


Dimensions							
Shell Size	Ø A	Ø B	C Flat	D Threads	Ø E	Ø F	Ø G Tail Dia.
5	.790 (20.07)	.562 (14.27)	.415 (10.54)	.4375-32 UN-2A	.250 (6.35)	.450 (11.43)	#23 .018/.022 (0.46/0.56)
6	.830 (21.08)	.625 (15.88)	.467 (11.86)	.5000-32 UN-2A	.330	.520 (13.21)	
7	.910 (23.11)	.750 (19.05)	.594 (15.09)	.6250-28 UN-2A	.432 (10.97)	.580 (14.73)	
8	.955 (24.26)	.750 (19.05)	.594 (15.09)	.6250-28 UN-2A	.432 (10.97)	.580 (14.73)	#20 .024/.028 (0.61/0.71)
9	1.000 (25.40)	.812 (20.62)	.655 (16.64)	.6875-28 UN-2A	.551 (14.00)	.695 (17.65)	
10	1.085 (27.56)	.875 (22.23)	.721 (18.31)	.7500-28 UN-2A	.620 (15.75)	.735 (18.67)	#16 .060/.064 (1.52/1.63)
11	1.135 (28.83)	.938 (23.83)	.790 (20.07)	.8125-28 UN-2A	.662 (16.81)	.810 (20.57)	
12	1.190 (30.23)	1.000 (25.40)	.843 (21.41)	.8750-28 UN-2A	.703 (17.86)	.880 (22.35)	#12 .092/.096 (2.34/2.44)
14	1.325 (33.65)	1.125 (28.58)	.968 (24.59)	1.0000-28 UN-2A	.863 (21.92)	1.010 (25.65)	

Material and Finish

- Shell, jam-nut: see how to order table
- Insulator: high grade rigid dielectric / N.A.
- Interfacial seal and O-ring: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate
- Sealing compound: potting encapsulant

SERIES 804 QDC PUSH-PULL



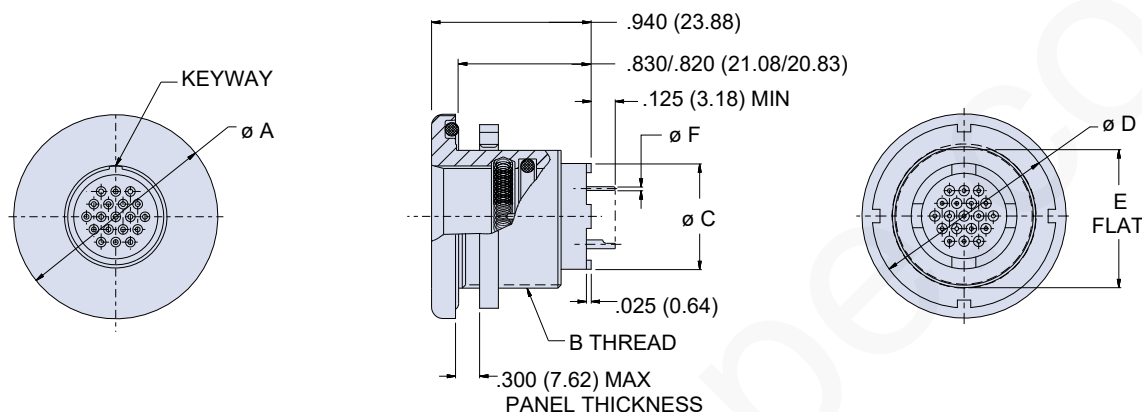
SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Light Weight, Hermetic Jam-Nut Mount Receptacles with PC Tails or Solder Cups

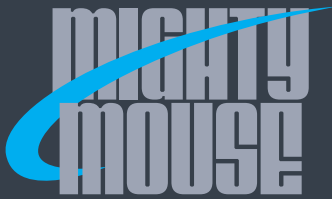
JAM-NUT, FRONT PANEL MOUNT RECEPTACLE- SHELL STYLE 00



Dimensions						
Shell Size	Ø A	B Threads	Ø C	Ø D	E Flat	Ø F Tail Dia.
5	.830 (21.08)	.5000-32 UN-2A	.250	.625 (15.88)	.470 (11.94)	#23 .018/.022 (0.46/0.56)
6	.885 (22.48)	.5625-28 UN-2A	.330	.688 (17.48)	.530 (13.46)	
7	.995 (25.27)	.6875-28 UN-2A	.432 (10.97)	.812 (20.62)	.663 (16.84)	
8	.995 (25.27)	.6875-28 UN-2A	.432 (10.97)	.812 (20.62)	.663 (16.84)	#20 .024/.028 (0.61/0.71)
9	1.075 (27.30)	.7500-28 UN-2A	.551 (14.00)	.875 (22.23)	.720 (18.29)	
10	1.140 (28.96)	.8125-28 UN-2A	.620 (15.75)	.938 (23.83)	.788 (20.02)	#16 .060/.064 (1.52/1.63)
11	1.190 (30.23)	.8750-28 UN-2A	.662 (16.81)	1.000 (25.40)	.843 (21.41)	
12	1.340 (34.04)	1.0000-28 UN-2A	.703 (17.86)	1.125 (28.58)	.970 (24.64)	#12 .092/.096 (2.34/2.44)
14	1.390 (35.31)	1.0625-20 UN-2A	.863 (21.92)	1.162 (29.51)	1.020 (25.91)	

Material and Finish

- Shell, jam-nut: see how to order table
- Insulator: high grade rigid dielectric /N.A.
- Interfacial seal and O-ring: fluorosilicone /N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate
- Sealing compound: potting encapsulant



SERIES 804 QDC PUSH-PULL Mighty Mouse Connectors and Cables



Glass-to-Metal Seal Hermetic Jam-Nut Mount Receptacles with PC Tails or Solder Cups



Series 804 Glass-Seal Hermetic Receptacles

Quick disconnect connectors (QDC) feature stainless steel shells, fused vitreous glass insulators and gold-plated Alloy 52 iron alloy contacts.

Hermeticity rating

100% tested to meet 1×10^{-7} ccHe/sec @ 1 atm helium leak rate.

Two Shell Styles are available:

Style 00 for front panel mounting

Style 07 for rear panel mounting.

"Push-Pull" Quick-Disconnect

Canted coil spring securely retains mating plug connector and provides low shell-to-shell resistance for excellent EMI shielding. O-ring inside receptacle shell provides water-tight seal when mated.

How To Order						
Sample Part Number	804-006	-07	Z1	9-19	P	A
Series	804-006 = Hermetic Receptacle					
Shell Style (See Table I)	-00 = Jam-Nut, Front Panel Mount -07 = Jam-Nut, Rear Panel Mount					
Shell Material and Finish	Z1 = Stainless Steel/Passivated ZL = Stainless Steel/Nickel Plated					
Shell Size - Insert Arrangement	See Contact Arrangements Page H-6					
Contact Type	P = Pin, Solder Cup C = Pin, PC Tail S = Socket, Solder Cup D = Socket, PC Tail					
Polarization (See Table II)	Omit = Single Master Key A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F					

Table I: Shell Style

-00 Jam-Nut, Front Panel Mount	-07 Jam-Nut, Rear Panel Mount

Table II: Keyway Positions

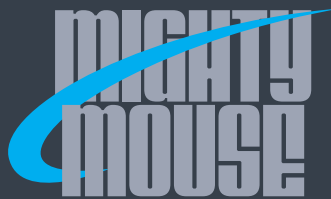
	Pos.	A°	B°
	A	150°	210°
	B	75°	210°
	C	95°	230°
	D	140°	275°
	E	75°	275°
	F	95°	210°

NOTES

1. Contacts are non removable
2. Receptacle connector mates with all push/pull high density plug connectors with same polarization and opposite contact gender
3. See page H-9 for recommended panel cut-outs
4. Hermeticity rating of 1×10^{-7} cc/sec

DWV Rating

Contact Sizes	Test Voltage
23	750 Vac
20 HD	1000 Vac
16, 12, 8	1800 Vac



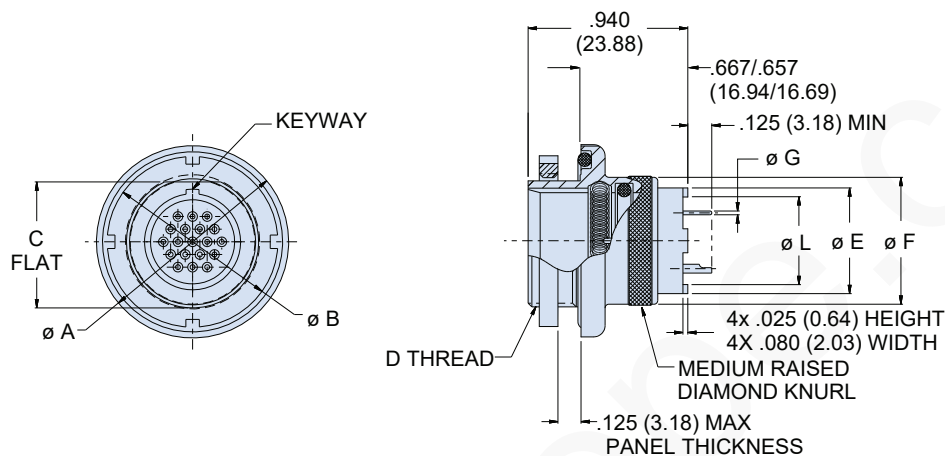
SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Glass-to-Metal Seal Hermetic Jam-Nut Mount Receptacles with PC Tails or Solder Cups

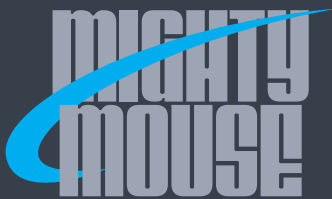
JAM-NUT, REAR PANEL MOUNT RECEPTACLE - SHELL STYLE 07



Dimensions								
Shell Size	Ø A	Ø B	C Flat	D Threads	Ø E	Ø F	Ø G Tail Dia.	Ø L
5	.790 (20.07)	.562 (14.27)	.415 (10.54)	.4375-32 UN-2A	.244 (6.20)	.450 (11.43)	#23 .022/.018 (0.56/0.46)	.176 (4.47)
6	.830 (21.08)	.625 (15.88)	.467 (11.86)	.5000-32 UN-2A	.336 (8.53)	.520 (13.21)		.239 (6.07)
7	.910 (23.11)	.750 (19.05)	.594 (15.09)	.6250-28 UN-2A	.432 (10.97)	.580 (14.73)		.325 (8.25)
8	.955 (24.26)	.750 (19.05)	.594 (15.09)	.6250-28 UN-2A	.493 (12.52)	.603 (15.32)	#20 .028/.024 (0.71/0.61)	.389 (9.88)
9	1.000 (25.40)	.812 (20.62)	.655 (16.64)	.6875-28 UN-2A	.551 (14.00)	.695 (17.65)		.447 (11.35)
10	1.085 (27.56)	.875 (22.23)	.721 (18.31)	.7500-28 UN-2A	.620 (15.75)	.735 (18.67)	#16 .064/.060 (1.63/1.52)	.516 (13.11)
11	1.135 (28.83)	.938 (23.83)	.790 (20.07)	.8125-28 UN-2A	.662 (16.81)	.810 (20.57)		.558 (14.17)
12	1.180 (29.97)	1.000 (25.40)	.843 (21.41)	.8750-28 UN-2A	.703 (17.86)	.880 (22.35)	#12 .096/.092 (2.44/2.34)	.599 (15.21)
14	1.325 (33.65)	1.125 (28.58)	.968 (24.59)	1.0000-28 UN-2A	.863 (21.92)	1.010 (25.65)		.759 (19.28)

Material and Finish

- Shell, jam-nut: CRES / see how-to-order table
- Insulator, Hermetic: fused glass
- Insulator, socket: hi-grade rigid dielectric
- Interfacial seal, O-ring: fluorosilicone
- Contact: socket-copper alloy / gold plate
- Contacts, hermetic: nickel-iron alloy / gold plate
- Detent spring-CRES/gold plated
- Potting compound: epoxy

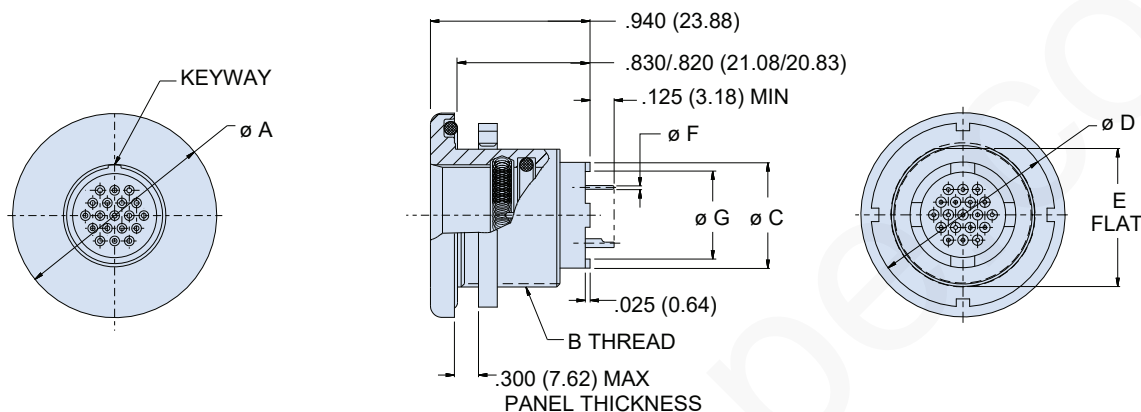


SERIES 804 QDC PUSH-PULL Mighty Mouse Connectors and Cables



Glass-to-Metal Seal Hermetic Jam-Nut Mount Receptacles with PC Tails or Solder Cups

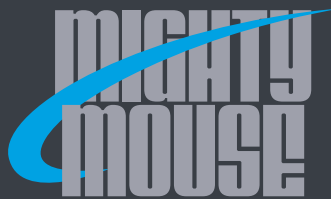
JAM-NUT, FRONT PANEL MOUNT RECEPTACLE- SHELL STYLE 00



Dimensions							
Shell Size	Ø A	B Threads	Ø C	Ø D	E Flat	Ø F Tail Dia.	Ø G
5	.830 (21.08)	.5000-32 UN-2A	.244 (6.20)	.625 (15.88)	.470 (11.94)	#23 .018/.022 (0.46/0.56)	.176 (4.47)
6	.885 (22.48)	.5625-28 UN-2A	.336 (8.53)	.688 (17.48)	.530 (13.46)		.239 (6.07)
7	.995 (25.27)	.6875-28 UN-2A	.432 (10.97)	.812 (20.62)	.663 (16.84)		.325 (8.25)
8	.995 (25.27)	.6875-28 UN-2A	.493 (12.52)	.812 (20.62)	.663 (16.84)	#20 .024/.028 (0.61/0.71)	.389 (9.88)
9	1.075 (27.30)	.7500-28 UN-2A	.551 (14.00)	.875 (22.23)	.720 (18.29)		.447 (11.35)
10	1.140 (28.96)	.8125-28 UN-2A	.620 (15.75)	.938 (23.83)	.788 (20.02)	#16 .060/.064 (1.52/1.63)	.516 (13.11)
11	1.190 (30.23)	.8750-28 UN-2A	.662 (16.81)	1.000 (25.40)	.843 (21.41)		.558 (14.17)
12	1.340 (34.04)	1.000-28 UN-2A	.703 (17.86)	1.125 (28.58)	.970 (24.64)	#12 .092/.096 (2.34/2.44)	.599 (15.21)
14	1.390 (35.31)	1.062-20 UN-2A	.863 (21.92)	1.188 (29.51)	1.020 (25.91)		.759 (19.28)

Material and Finish

- Shell, jam-nut: CRES/ see how to order table
- Insulator, Hermetic: fused glass
- Insulator, socket: hi-grade rigid dielectric
- Interfacial seal, O-ring: fluorosilicone
- Contact: socket-copper alloy / gold plate
- Contacts, hermetic: nickel-iron alloy / gold plate
- Detent spring-CRES/gold plated
- Potting compound: epoxy



SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Jam-Nut Mount Bulkhead Feed-Thru Connector



Series 804 Bulkhead Feed-Thru Receptacle

This series 804 design provides a separable connection on both sides of the mounting panel. Jam-nut receptacle features three contact options: pin/socket (preferred version), pin/pin, or socket/socket. Contacts are factory installed and are not removable. Available in aluminum or stainless steel. Gold-plated copper alloy contacts and ground spring, high-grade rigid dielectric insulator, fluorosilicone seals. Note: use caution when specifying pin/pin or socket/socket versions. the arrangement pattern is mirrored about the vertical axis.

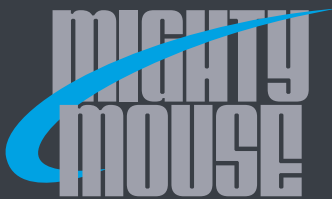
How To Order								
Sample Part Number		804-067	-07	M	6-7	P	P	A
Series	804-067 = Bulkhead Feed-Thru Receptacle							
Shell Style	-07 = Jam-Nut, Rear Panel Mount							
Shell Material and Finish	C = Aluminum / Black Anodize (Non-Conductive) M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE NF = Aluminum / Cadmium with Olive Drab Chromate ZN = Aluminum / Zinc-Nickel with Olive Drab Chromate ZNU = Aluminum / Zinc-Nickel with Black Chromate Z1 = Stainless Steel / Passivated							
Shell Size - Insert Arrangement	Available in Shell Sizes 5 thru 14. See Contact Arrangements Page H-6							
Contact Type Jam-Nut Side	P = Pin S = Socket Coax contacts are not unavailable.							
Contact Type Other Side	P = Pin S = Socket							
Polarization (See Table I)	A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F							

NOTES

1. Contacts are non removable
2. Receptacle connector mates with all push/pull high density plug connectors with same polarization and opposite contact gender
3. Connectors with Pin-Pin and Socket-Socket contact styles will cause the arrangement pattern to be mirrored about the vertical centerline
4. See page H-9 for recommended panel cut-outs

Table I: Keyway Positions

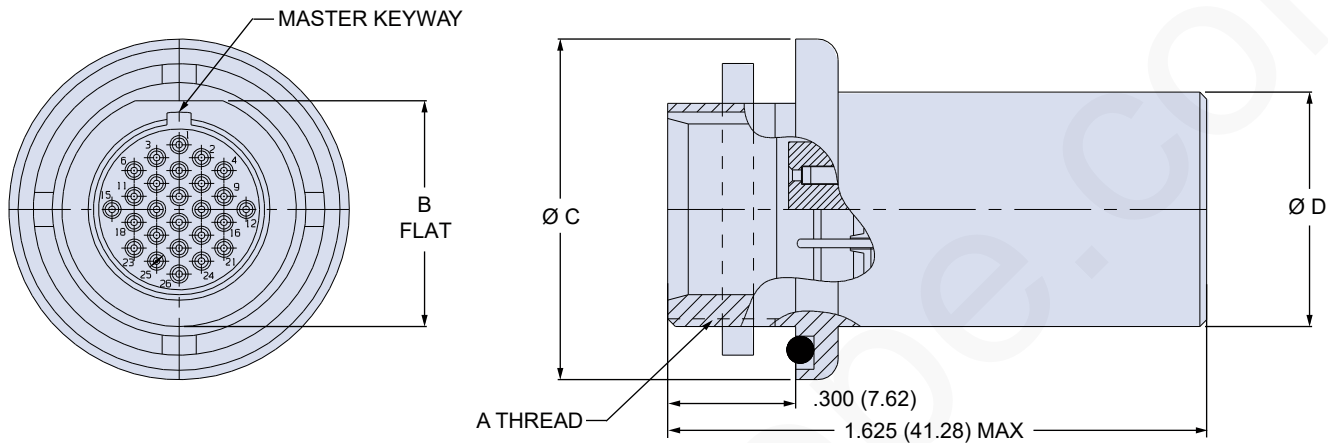
Key Position	Key Rotation	
	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°



SERIES 804 QDC PUSH-PULL
Mighty Mouse Connectors and Cables
Jam-Nut Mount Bulkhead Feed-Thru Connector



JAM-NUT, REAR PANEL MOUNT BULKHEAD FEED-THRU - STYLE 07



Dimensions				
Shell Size	A Thread	B Flat	Ø C	Ø D
5	.4375-32 UN-2A	.415 (10.54)	.730 (18.54)	.450 (11.43)
6	.5000-32 UN-2A	.467 (11.86)	.730 (18.54)	.480 (12.19)
7	.6250-28 UN-2A	.580 (14.73)	.900 (22.86)	.580 (14.73)
8	.6250-28 UN-2A	.580 (14.73)	.945 (24.00)	.603 (15.32)
9	.6875-28 UN-2A	.655 (16.64)	1.000 (25.40)	.695 (17.65)
10	.7500-28 UN-2A	.721 (18.31)	1.075 (27.30)	.735 (18.67)
11	.8750-28 UN-2A	.790 (20.07)	1.140 (28.96)	.810 (20.57)
12	8125-28 UN-2A	.843 (21.41)	1.190 (30.23)	.880 (22.35)
14	8750-28 UN-2A	.968 (24.59)	1.312 (33.32)	1.010 (25.65)

Material and Finish

- Shell, jam-nut: aluminum alloy or CRES / see how to order table
- Insulator: LCP / N.A.
- Interfacial seal, O-ring: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate



SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Quick Disconnect, Harsh Environment Overmolded Cordsets

Series 804 Harsh Environment Shielded Cordsets



Overmolded Cordset

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

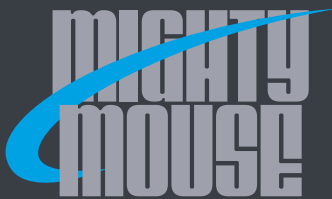
Controlled impedance twisted pair cordsets for Ethernet, USB, and other protocols are available. Please refer to Section M

Harsh Environment Cordset Selection Guide

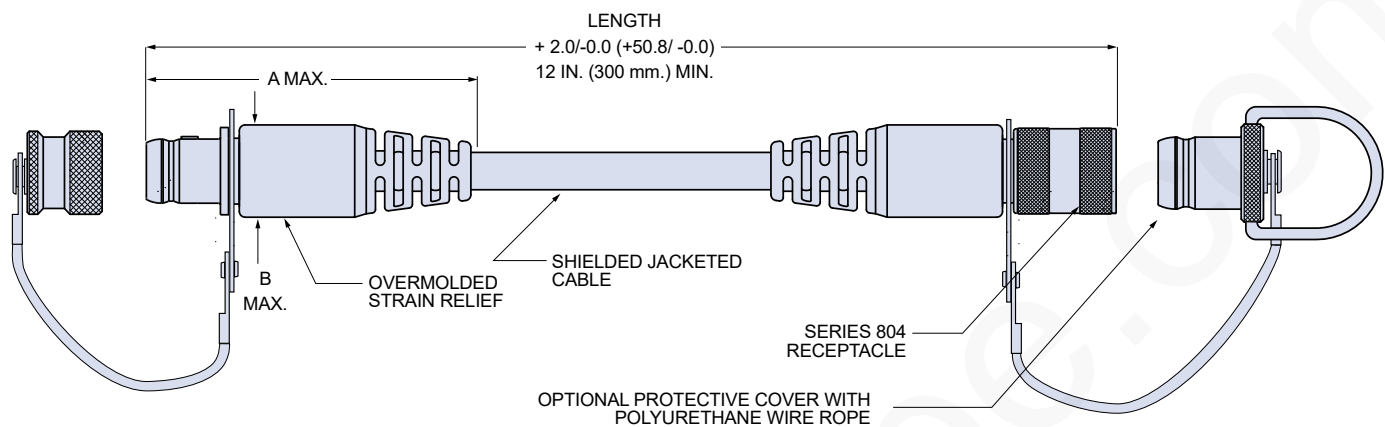
Property	Style 1 Polyurethane Jacket Polyamide Overmold	Style 2 Rubber Jacket Rubber Overmold
Cable jacket	Thermoplastic polyurethane (TPU), black	Thermoplastic elastomer (TPV), black
Overmold	Polyamide, black	Thermoplastic elastomer (TPV), black
Operating temperature	-30° C. to +105° C.	-55° C. to +135° 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.



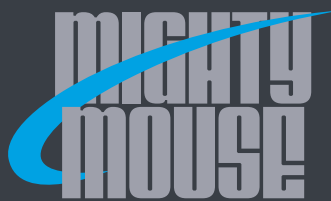
SERIES 804 QDC PUSH-PULL
Mighty Mouse Connectors and Cables
Quick Disconnect, Harsh Environment
Overmolded Cordsets



Dimensions		
Shell Size	A Max.	B Max.
5	2.46 (0.10)	0.50 (0.02)
6	2.56 (0.10)	0.56 (0.02)
7	2.64 (0.10)	0.63 (0.02)
8	2.70 (0.11)	0.68 (0.03)
9	2.90 (0.11)	0.73 (0.03)
10	2.95 (0.12)	0.81 (0.03)
11	3.0 (0.12)	0.90 (0.04)
12	3.10 (0.12)	0.92 (0.04)
14	3.20 (0.13)	1.05 (0.04)

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.



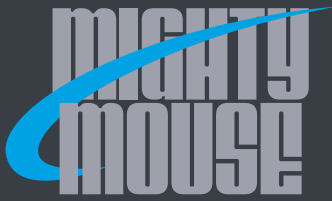
SERIES 804 QDC PUSH-PULL Mighty Mouse Connectors and Cables

Quick Disconnect, Harsh Environment Overmolded Cordsets



Series 804 Cordsets with #23 Contacts								
Sample Part Number								
804-015	-A	C	2	M	7-10	P	A	-72
Series	End A Connector	End B Connector	Wire Size	Shell Material/ Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length
804-015 Style 1 Polyurethane Cable Jacket, Polyamide Overmold 804-062 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 Arrgmnt page H-5	P Metal Protective Covers Included N No Covers Supplied	Omit Single Master Key A Pos. A (Normal) B Pos. B C Pos. C D Pos. D E Pos. E F Pos. F See page H-9	Overall Length In Inches 12 Inch Min.

Series 804 Cordsets with #20HD Contacts								
Sample Part Number								
804-022	-A	C	0	M	8-28	N	A	-72
Series	End A Connector	End B Connector	Wire Size	Shell Material / Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length
804-022 Style 1 Polyurethane Cable Jacket, Polyamide Overmold 804-063 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 Arrgmnt page H-5	P Metal Protective Covers Included N No Covers Supplied	Omit Single Master Key A Pos. A (Normal) B Pos. B C Pos. C D Pos. D E Pos. E F Pos. F See page H-9	Overall Length In Inches 12 Inch Min.



SERIES 804 QDC PUSH-PULL Mighty Mouse Connectors and Cables

Quick Disconnect, Harsh Environment Overmolded Cordsets



Series 804 Cordsets with #16 Contacts								
Sample Part Number								
804-018	-A	C	2	M		N	A	-72
Series	End A Connector	End B Connector	Wire Size	Shell Material/ Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length
804-018 Style 1 Polyurethane Cable Jacket, Polyamide Overmold 804-064 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	See Insert Arrgmnt page H-5	P Metal Protective Covers Included N No Covers Supplied	Omit Single Master Key A Pos. A (Normal) B Pos. B C Pos. C D Pos. D E Pos. E F Pos. F See page H-9	Overall Length In Inches 12 Inch Min.

Series 804 Cordsets with #12 Contacts								
Sample Part Number								
804-019	-A	C	0	M		N	A	-72
Series	End A Connector	End B Connector	Wire Size	Shell Material/ Finish	Insert Arr.	Protective Cover	Shell Key Pos.	Length
804-019 Style 1 Polyurethane Cable Jacket, Polyamide Overmold 804-065 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	See Insert Arrgmnt page H-5	P Metal Protective Covers Included N No Covers Supplied	Omit Single Master Key A Pos. A (Normal) B Pos. B C Pos. C D Pos. D E Pos. E F Pos. F See page H-9	Overall Length In Inches 12 Inch Min.



SERIES 804 QDC PUSH-PULL

Mighty Mouse Connectors and Cables



Quick Disconnect, Flexible, Lightweight Phantom Cable Cordsets

Series 804 Ultraflexible “Phantom Cable” Cordsets



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.

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.

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.

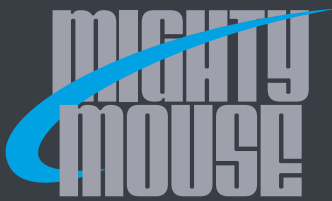
Jacket Selection Guide

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.



SERIES 804 QDC PUSH-PULL

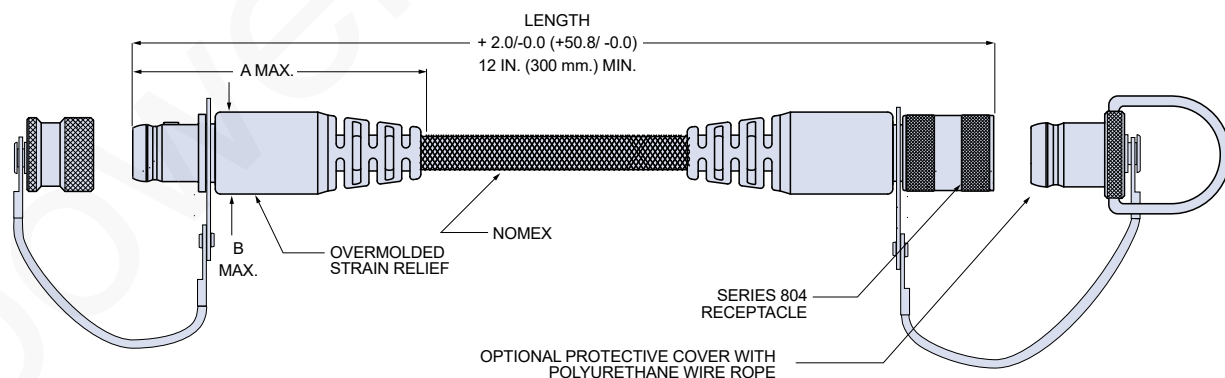
Mighty Mouse Connectors and Cables



Quick Disconnect, Flexible, Lightweight Phantom Cable Cordsets

Series 804 "Phantom Cable" Cordsets size #12, #16, #20 and #23 Contacts

Sample Part Number										
804-058	-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 Pos.	Length	Shield Option	Jacket Option
Size #23 Contacts 804-058 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 Aluminum/ Zinc-Nickel with Black Chromate MT Aluminum/ Nickel-PTFE Z1 Stainless Steel/ Passivated	See Insert Argmnt page H-5	P Metal Protective Covers Included N No Covers Supplied	Omit Single Master Key A Pos. A (Normal) B Pos. B C Pos. C D Pos. D E Pos. E F Pos. F See page H-9	Overall Length In Inches 12 Inch Min.	A AmberStrand B ArmorLite C Tin-Coated Copper	N Nomex, Black H Halar (Monofil) P PTFE-Glass (Natural/ Tan)
Size #20 HD Contacts 804-059 Phantom Cable Cordset	-C Receptacle with Male Pin Contacts -D Receptacle with Female Socket Contacts	C Receptacle with Male Pin Contacts D Receptacle with Female Socket Contacts	Size #20 HD Contacts 0 #20 AWG 2 #22 AWG							
Size #16 Contacts 804-060 Phantom Cable Cordset		N No Connector (Single-Ended)	Size #16 Contacts 6 #16 AWG 8 #18 AWG							
Size #12 Contacts 804-061 Phantom Cable Cordset			Size #12 Contacts 2 #12 AWG 4 #14 AWG							



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.