



RUGGEDIZED RJ45 AND USB

SUPERSEAL™

CONNECTORS AND ACCESSORIES

IAW: MIL-DTL-38999 • MIL-DTL-5015 • MIL-DTL-26482 • MIL-DTL-28840 • SR. 80 MIGHTY MOUSE

MAY 2016

RUGGEDIZED
RJ45 AND USB
CONNECTORS

SUPERSEAL™

CONNECTORS AND ACCESSORIES



Glenair supplies the world's most comprehensive line of ruggedized, field RJ45 Ethernet and USB connectors. The entire series is optimized for high-speed RJ45 and USB protocol applications in industrial and military environments such as rail, naval, shipboard, and soldier-system communications. SuperSeal™ enables commercial standard RJ45 and USB connectors to perform their important connectivity functions in mil-spec application environments requiring higher levels of sealing, grounding, durability, and higher-performance cable and board termination options.



SuperSeal™ Advantages

- Superior sealing— IP67 unmated and IP68 when mated—for complete system protection against water, sand and dust
- Shielded/grounded receptacle connectors
- Crimp, solder-cup, PC tail, and Quadrax contact/wire termination options
- USB 2.0 standard Type A, RJ45 Cat 5e and RJ12 with plug/jack or jack/jack interface options
- The industry's widest range of packaging options including Mil-DTL Type and Glenair ultraminiature solutions

38999 Type



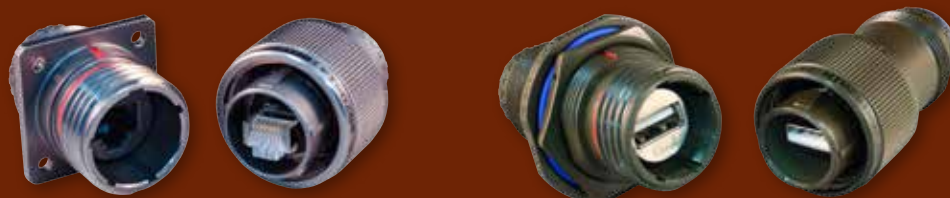
5015 Intermountable



26482 Type



28840 Type



Series 80 Mighty Mouse



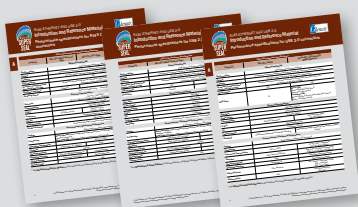


RJ45 ETHERNET AND USB 2.0 AND 3.0 Introduction and Technical Reference

Table of Contents



A



SuperSeal™ Overview and Technical Specifications

B



SuperSeal™ MIL-DTL-38999 Series III Type RJ45 Connectors and Cordsets plus NEW Transient Voltage Suppression Solutions

C



SuperSeal™ MIL-DTL-Series 39999 Series III Type USB 2.0 Connectors and Cordsets

D



ITS SuperSeal™ (5015 Intermountable) Reverse-Bayonet RJ45 Connectors

E



NEW: ITS SuperSeal™ (5015 Intermountable) Reverse-Bayonet USB 2.0 Connectors

F



NEW: IPT SuperSeal™ MIL-DTL-26482 Type Bayonet RJ45 Connectors



RJ45 ETHERNET AND USB 2.0 AND 3.0 Introduction and Technical Reference

Table of Contents



NEW: IPT SuperSeal™ MIL-DTL-26482 Type Bayonet USB Connectors

G



NEW: SuperSeal™ MIL-DTL-28840 Type RJ12/RJ45 and USB Shipboard Connectors

H



SuperSeal™ Series 801, 804 and 805 Mighty Mouse Micro USB 2.0 Connectors

J



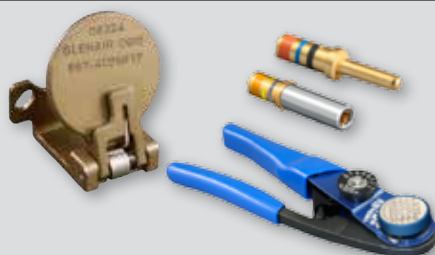
NEW: SuperSeal™ Series 801, 804 and 805 Mighty Mouse RJ45 Connectors

K



NEW: SuperSeal™ Series 801, 804 and 805 Mighty Mouse Standard USB 2.0 Connectors

L



Contacts, Tools, and Accessories

M

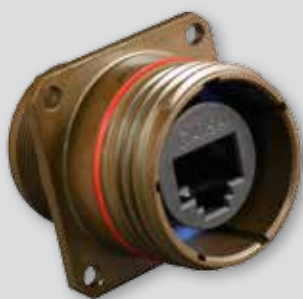


SUPERSEAL™

Ruggedized RJ45 and USB connectors for applications as diverse as military ground vehicles to passenger IFE

IP67 open-face, robust insert-to-shell grounding, complete range of wire, cable, and circuit board terminations

- Superior sealing—IP67 unmated—for complete system protection against water, sand and dust
- Highly durable RJ45 design, including enhanced operating temperature, increased life-cycle, and rugged vibration and shock performance
- Shielded/grounded coupler designs in both receptacle and plug connectors
- Crimp, solder-cup, PC tail, and Quadrax contact/wire termination options
- RJ45 plug and/or jack interface options available in Cat 5e
- MIL-DTL-38999 type versions intermateable with other RJ45 field-duty connectors



MIL-DTL-38999 Series III
with sealed RJ45



MIL-DTL-38999 Series III
with RJ45 USB cable assemblies



High-capacity, high-speed
USB data stick



RJ45 ETHERNET AND USB 2.0 Introduction and Technical Reference

SuperSeal connector overview



AVAILABLE TERMINATION OPTIONS



EXPANDED PACKAGING OPTIONS



ACCESSORIES AND TOOLS





RJ45 ETHERNET AND USB 2.0

Introduction and Technical Reference



Performance specifications for RJ45 connectors

A

RJ45 CAT 5e Performance Specifications			
Property	MIL-DTL-38999 Series III Type	Series ITS 5015 Intermountable	Series IPT MIL-DTL-26482 Type
Material and Finish			
Shell/Coupling and Plating	Complete list of options available in the Material and Finish Options portion of this section		
Contacts	PC tails, solder cup, and crimp contacts: copper alloy, gold plated		
RJ45 Insulator	PPS		
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988		
Shell Sizes	17 and 19	18	18
Shielding Sleeve	Material: Copper alloy Finish: Nickel		
Electrical Specifications			
Data Rate	CAT 5e = 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX'		
Current Rating	Cat 5e, 1.5 Amps		
D.W.V.	1000 VDC (700 VAC)		
I.R.	500 Mega ohms @ 500 VDC		
Frequency	100 MHz, Cat 5e		
Wiring	Straight through, Cat 5e		
Cabling Length	Up to 100 meters or 100 meters max.		
Shield Continuity	Continuous through coupler or continuous coupler to shell		
Environmental/Mechanical Performance			
Sealing	IP68 mated condition, IP67 unmated condition		
Outgassing	Mod Code 186S meets outgassing requirements per ASTM E 595 and meets NASA level 3 screening for standard reliability Mod Code 928 meets outgassing requirements per UL 94 V-0		
Operating Temperature	-40°C to +120°C		
Vibration	20g, 3 Axis, 10 - 2000Hz	37 g	
Mechanical Shock	300 g's		
Backshell Interface	MIL-DTL-38999, Designator H	Consult factory	
Mating System	Triple-start stub ACME	Reverse Bayonet	
Mating Cycles	500		



RJ45 ETHERNET AND USB 2.0

Introduction and Technical Reference



Performance specifications for RJ45 connectors

A

RJ45/RJ12 5e Performance Specifications			
Property	MIL-DTL-28840 Type (RJ12)	MIL-DTL-28840 Type (RJ45)	Series 801, 804 and 805 Mighty Mouse (RJ45)
Material and Finish			
Shell/Coupling and Plating	Complete list of options available in the Material and Finish Options portion of this section		
Contacts	PC tails, solder cup, and crimp contacts: copper alloy, gold plated		
RJ45 Insulator	PPS		
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988		
Shell Sizes	15 and 17	17 and 19	Series 801 Shell Size 17 & 19 Series 804 Shell Size 15 & 16 Series 805 Shell Size 19 & 21
Shielding Sleeve	Material: Copper alloy Finish: Nickel		
Electrical Specifications			
Data Rate	NA	CAT 5e = 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX’	
Current Rating	1.5 Amps		
D.W.V.	1000 VDC (700 VAC)		
I.R.	500 Mega ohms @ 500 VDC		
Frequency	300 Hz - 3.4 KHZ	100 MHz, Cat 5e	
Wiring	Straight through, Cat 5e		
Cabling Length	300 meters	Up to 100 meters or 100 meters max.	
Shield Continuity	Continuous through coupler or Continuous coupler to shell		
Environmental/Mechanical Performance			
Sealing	IP68 mated condition, IP67 unmated condition		
Outgassing	Mod Code 186S meets outgassing requirements per ASTM E 595 and meets NASA level 3 screening for standard reliability Mod Code 928 meets outgassing requirements per UL 94 V-0		
Operating Temperature	-40°C to +120°C		
Vibration	NA	20g, 3 Axis, 10 - 2000Hz	
Mechanical Shock	NA	300g’s	
Backshell Interface	Consult factory	Consult factory	Dependent on Series
Mating System	Threaded	Threaded	801 - Double-Start Stub ACME 804 - Push/Pull 805 - Triple Start
Mating Cycles	100	500	500



RJ45 ETHERNET AND USB 2.0

Introduction and Technical Reference



Performance specifications for USB 2.0 connectors

A

USB 2.0 Performance Specifications			
Property	MIL-DTL-38999 Series III Type	Series ITS 5015 Intermountable	Series IPT MIL-DTL-26482 Type
Material and Finish			
Shell/Coupling and Plating	Complete list of options available in the Material and Finish Options portion of this section		
Contacts	PC tails, solder cup, and crimp contacts: copper alloy, gold plated		
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988		
USB Insulator	LCP	PPS	
Shell Sizes	15 and 17 Consult factory for other shell size options	16	16
Electrical Specifications			
Data Rate	480 MBps		
Power Usage	500 milliamps (mA)		Up to 7.5W USB 2.0
Current Rating	1.5 Amps,		
D.W.V.	500 VAC		
I.R.	1000 MegOhms		
Cabling Length	5.0 Meters Max		
Shielding	Continuous through coupler or continuous coupler to shell		USB housing ground to shell full shielding
Environmental/Mechanical Performance			
Sealing	IP68 mated condition, IP67 unmated condition		
Outgassing	Mod Code 186S meets outgassing requirements per ASTM E 595 and meets NASA level 3 screening for standard reliability Mod Code 928 meets outgassing requirements per UL 94 V-0		
Operating Temperature	-40°C to +120°C		
Vibration	20g's, 3 Axis, 10 - 2000Hz	37 g's	20g, 3 axis, 10-2000 Hz
Mechanical Shock	300 g's		
Backshell Interface	MIL-DTL-38999 Designator H	Consult Factory	Designator A
Mating System	Triple-start stub ACME	Reverse Bayonet	3-Pin Bayonet
Mating Cycles	500		



USB 2.0 Performance Specifications		
Property	MIL-DTL-28840 Type	Series 801, 804 and 805 Mighty Mouse
Material and Finish		
Shell/Coupling and Plating	Complete list of options available in the Material and Finish Options portion of this section	
Contacts	PC tails, solder cup, and crimp contacts: copper alloy	
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988	
USB Insulator	PPS	LCP
Shell Sizes	15	Micro USB: Series 801 & 804 Shell Size 8 Series 805 shell Size 10 Standard USB: Series 801 Shell Size 16, Series 804 Shell Size 14, Series 805 Shell Size 18
Electrical Specifications		
Data Rate	480 MBps USB 2.0	
Power Usage	Up to 7.5W USB 2.0	
Current Rating	1.5 Amps, USB 2.0	
D.W.V.	500 VAC	500 VAC (Standard) 100 VAC (Micro only available on Mighty Mouse)
I.R.	1000 MegOhms min.	
Cabling Length	5.0 Meters Max	
Shielding	Continuous through coupler or continuous coupler to shell	
Environmental/Mechanical Performance		
Sealing	IP68 mated condition, IP67 unmated condition	
Outgassing	Mod Code 186S meets outgassing requirements per ASTM E 595 and meets NASA level 3 screening for standard reliability Mod Code 928 meets outgassing requirements per UL 94 V-0	
Operating Temperature	-40°C to 120°C	-40° to +120°C (Standard) -20°C to +85°C (Micro)
Vibration	20g's, 3 Axis, 10 - 2000Hz	20g, 3 axis, 10-2000 Hz (Standard) 37.8g, 3 axis, 50-2000 Hz (Micro)
Mechanical Shock	300 g's	300g (Standard and Micro)
Backshell Interface	M28840, Connector Designator G	Consult Factory
Mating System	Threaded	801 - Double-Start Stub ACME 804 - Push/Pull 805 - Triple Start
Mating Cycles	100	2,000 (801 and 804) 500 (805)



RJ45 CAT 5e and 6a TVS diode connector performance specifications and power selection chart for D38999

A

MIL-DTL-38999 Series III, TVS Diode, RJ45 CAT 5e and 6a Performance Specifications

Material and Finish

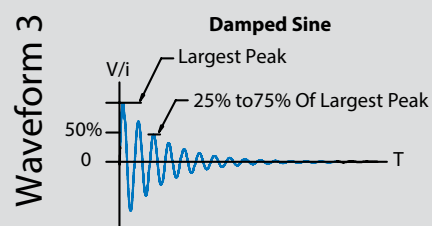
Shell/coupling Plating	Complete list of options available in the Material and Finish Options portion of this section
Contacts	PC tails or solder cup: copper alloy, gold plated
RJ45 coupler housing	UL94V-0 compliant ABS or PPS
Seals	Fluorosilicone
Shell Sizes	17 and 19

Environmental / Mechanical Performance

Sealing	IP68 mated condition, IP67 unmated condition
Outgassing	Mod Code 186S* Mod Code 928**
Operating Temperature	-20°C to +85°C
Vibration	20g's, 3 Axis, 10 - 2000Hz
Mechanical Shock	300 g's
Backshell Interface	MIL-DTL-38999 Designator H
Mating Cycles	500

* Meets outgassing requirements per ASTM E 595 and meets NASA screening requirements for level 1 highest reliability

** Meets outgassing requirements per UL 94 V-0

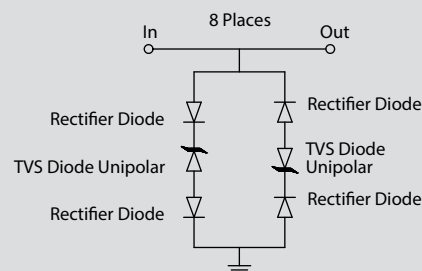


MIL-DTL-38999 Series III, TVS Diode, RJ45 CAT 5e and 6a Performance Specifications

RJ45 Cat 6a & 5e Electrical Specifications

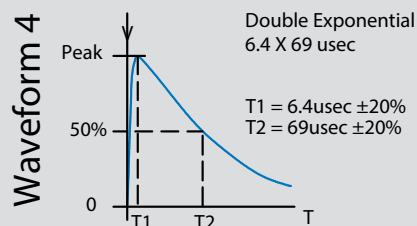
Voltage Rating	1000 Volts, Cat 5e
Data Rate	10BASE-T, 100BASE-TX, 1000BASE-T/1000BASE-TX
Current Rating	1.5 Amps, Cat 5e
D.W.V.	1000 VDC (700 VAC)
Frequency	100 MHz, Cat 5e
Wiring	Straight through
Cabling Length	100 Meters Max
Shield Continuity	Continuous Through Coupler and Grounded to the Shell

FIGURE 1



RTCA DO-160 Indirect Lightning Waveset A Waveforms

RTCA DO-160 Waveform	Level	Open Circuit Voltage/Short Circuit Voltage V/A
Waveform 3	1	100/4
	2	250/10
Waveform 4	1	50/10
	2	125/25



MIL-DTL-38999 Series III, TVS Diode, RJ45 CAT 5e and 6a Performance Specifications

TVS Electrical Specifications

Each signal line has TVS diode protection per the electrical schematic in figure 1.

Peak pulse power (tp = 8/20us)	600w
Rated standoff voltage	2.8V
Minimum breakdown voltage	3.0V @ 1mA
Max clamping voltage (@ Ipp = 2A)	5.5V
Max clamping voltage (@ Ipp = 5A)	8.5V
Max clamping voltage (@ Ipp = 30A)	21.0V
Max leakage current	2.0uA max @ 2.8V
Typical junction capacitance	10pF @ 0v, 1Mhz
Polarity	bipolar
Compatible with IEC 61000-4-2 (ESD)	air - 15kv, contact - 8kv
Compatible with IEC 61000-4-4 (EFT)	40A - 5/50ns
Compatible with IEC 61000-4-5 (surge)	24A, 8/20us - level 2 (line-gnd) & level 3 (line-line)

Meets indirect lightning strike requirements per DO-160, section 222 pin injection waveform set A2.



RJ45 ETHERNET AND USB 2.0 Material and Finish Options For SuperSeal™ connectors



A

MIL-DTL-38999 Connector and Cable Assembly Material and Finish Codes

Code	Material	Finish	Finish Specification	Hrs. Salt Spray	Electrical Conductivity	Operating Temp. Range	RoHS Compliance
ME	Aluminum	Electroless Nickel	MIL-DTL-24308 Class K	96	Yes		Yes
MT	Aluminum	Nickel PTFE	SAE AMS2454	500	Yes	-65° to +175°C	Yes
NF	Aluminum	Cadmium, Olive Drab	SAE-AMS-QQ-P-416 Type II Class 2 over electroless nickel	500	Yes	-65 to +175°C	No
ZR	Aluminum	Zinc-Nickel, Black	ASTM B841 Grade 5 over electroless nickel	500	Yes	-65 to +175°C	Yes

Glenair Series ITS (5015 Intermountable) Material and Finish Codes

Code	Material	Finish	Hrs. Salt Spray	Electrical Conductivity	Operating Temp. Range	RoHS Compliance
F6	Aluminum	Black Epoxy Paint	500	No	-55° to +125°C	Yes
F7	Aluminum	Black Zinc Nickel	500	Yes	-55° to +125°C	Yes
F11	Aluminum	Electroless Nickel	48	Yes	-55° to +125°C	Yes
G3	Aluminum	Cadmium, Olive Drab	500	Yes	-55° to +125°C	No

Glenair Series IPT (IAW MIL-DTL-26482) Material and Finish Codes

Code	Material	Finish	Hrs. Salt Spray	Electrical Conductivity	Operating Temp. Range	RoHS Compliance
F6	Aluminum	Black Epoxy Paint	500	No	-55° to +125°C	Yes
F7	Aluminum	Black Zinc Nickel	500	Yes	-55° to +125°C	Yes
F11	Aluminum	Electroless Nickel	48	Yes	-55° to +125°C	Yes
G3	Aluminum	Cadmium, Olive Drab	500	Yes	-55° to +125°C	No

MIL-DTL-28840 Material and Finish Options

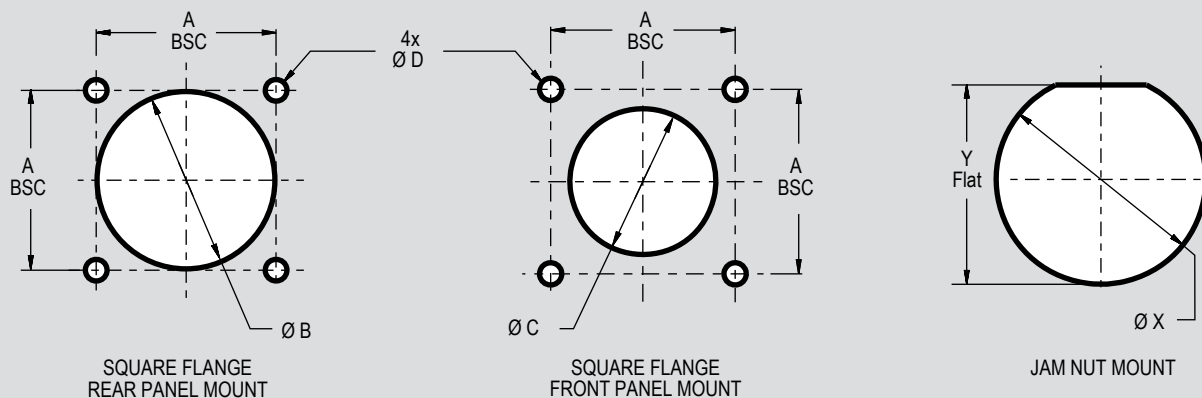
Code	Material	Finish	Finish Specification	Hrs. Salt Spray	Electrical Conductivity	Operating Temp. Range	RoHS Compliance
NF	Aluminum	Cadmium, Olive Drab	SAE-AMS-QQ-P-416	500	Yes	-65 to +175°C	No
ZR	Aluminum	Zinc-Nickel, Black	ASTM B841	500	Yes	-65 to +175°C	Yes
MT	Aluminum	Nickel-PTFE, 1000 Hour Grey™	AMS2454	1000	Yes	-65 to +175°C	Yes
Z1	Stainless Steel	Passivate	SAE-AMS-QQ-P-35	1000	Yes	-65 to +200°C	Yes

Series 80 Mighty Mouse Material and Finish Codes

Code	Material	Finish	Finish Specification	Hrs. Salt Spray	Electrical Conductivity	Operating Temp. Range	RoHS Compliance
M	Aluminum	Electroless Nickel	AMS-C-26074	48	Yes	-65 to +200°C	Yes
MT	Aluminum	Nickel-PTFE	SAE AMS2454	500	Yes	-65 to +175°C	Yes
NF	Aluminum	Cadmium, Olive Drab	SAE-AMS-QQ-P-416	500	Yes	-65 to +175°C	No
ZNU	Aluminum	Zinc-Nickel, Black	ASTM B841	500	Yes	-65 to +175°C	No
Z1	Stainless Steel	Passivate	SAE-AMS-QQ-P-35	1000	Yes	-65 to +200°C	Yes

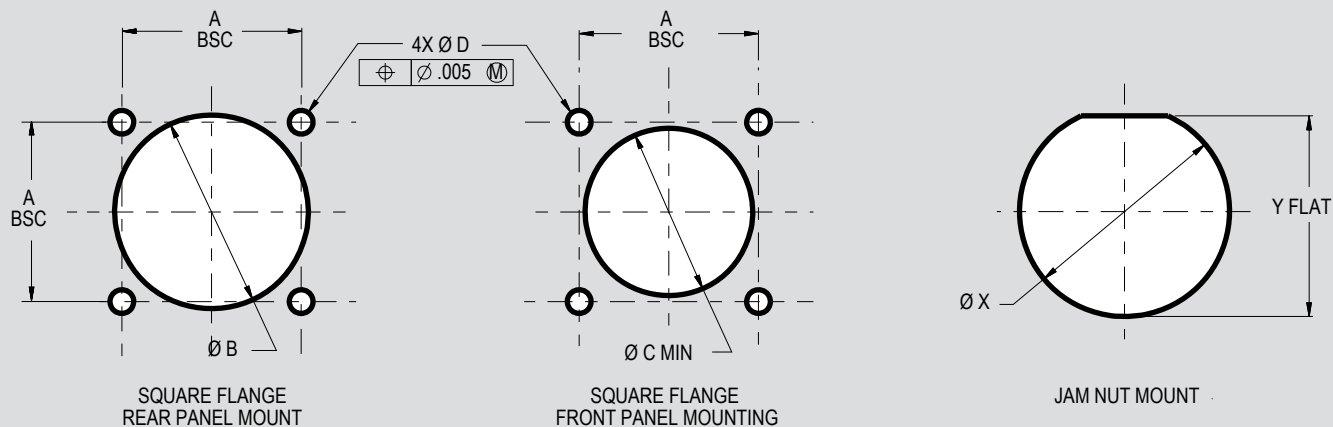
For MIL-DTL-38999 Series III type connectors

MIL-DTL-38999 TYPE RJ45 PANEL CUTOUTS FOR SHELL SIZE 17 AND 19



Panel Cut-Out Dimensions						
Shell Size	A Bsc	B Dia Min	C Dia Min	D Holes	X Dia	Y Flat
17	1.062 (26.97)	1.219 (30.96)	1.016 (25.81)	.133 (3.38) .123 (3.12)	1.270 (32.26) 1.260 (32.00)	1.210 (30.73) 1.208 (30.68)
19	1.156 (29.36)	1.297 (32.94)	1.141 (28.98)		1.395 (35.43) 1.385 (35.18)	1.335 (33.91) 1.325 (33.66)

MIL-DTL-38999 TYPE USB PANEL CUTOUTS FOR SHELL SIZE 15 AND 17



Panel Cut-Out Dimensions						
Shell Size	A Bsc	B Dia Min	C Dia Min	D Holes	X Dia	Y Flat
15	.969 (24.61)	1.047 (26.59)	.906 (23.01)	.133 (3.38) .123 (3.12)	1.145 (29.08) 1.135 (28.83)	1.085 (27.56) 1.075 (27.31)
17	1.062 (26.97)	1.219 (30.96)	FPM not offered		1.270 (32.26) 1.260 (32.00)	1.210 (30.73) 1.200 (30.48)



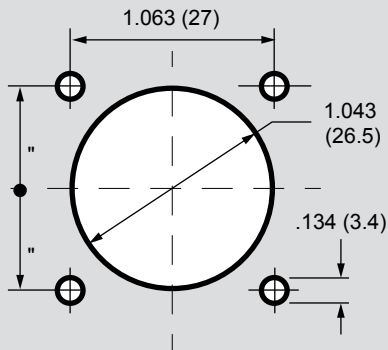
RJ45 ETHERNET AND USB 2.0 Recommended Panel Cutouts



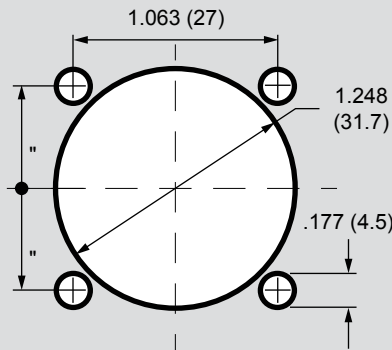
For Glenair Series ITS (5015 Intermountable) connectors

GLENAIR SERIES ITS (5015 INTERMOUNTABLE) RJ45 PANEL CUTOUTS FOR SHELL SIZE 18

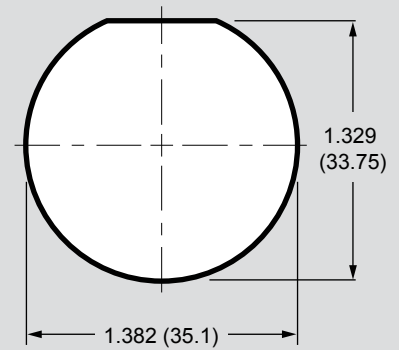
A



SQUARE FLANGE
FRONT PANEL MOUNTING

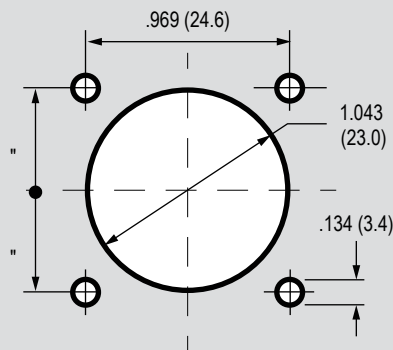


SQUARE FLANGE
REAR PANEL MOUNTING

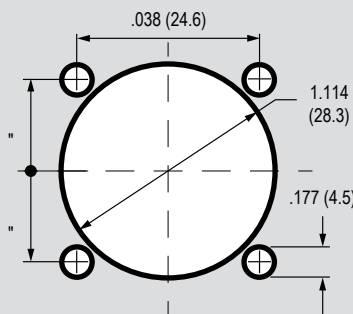


JAM NUT MOUNT

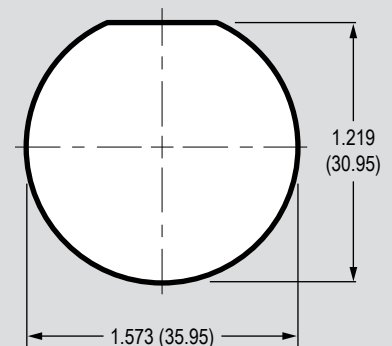
GLENAIR SERIES ITS (5015 INTERMOUNTABLE) USB PANEL CUTOUTS FOR SHELL SIZE 16



SQUARE FLANGE
FRONT PANEL MOUNT



SQUARE FLANGE
REAR PANEL MOUNT



JAM NUT MOUNT



RJ45 ETHERNET AND USB 2.0

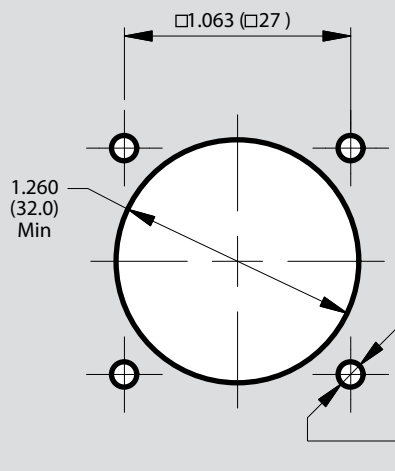
Recommended Panel Cutouts



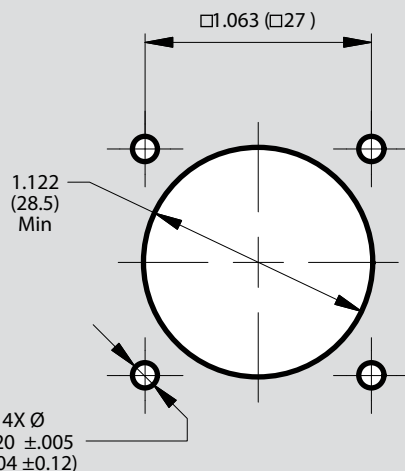
For Glenair Series IPT (MIL-DTL-26482 type) connectors

A

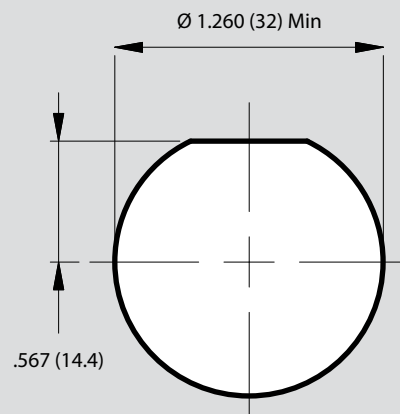
GLENAIR SERIES IPT (26482 TYPE) RJ45 PANEL CUTOUTS FOR SHELL SIZE 18



SQUARE FLANGE REAR MOUNT
RECOMMENDED MOUNTING HOLES

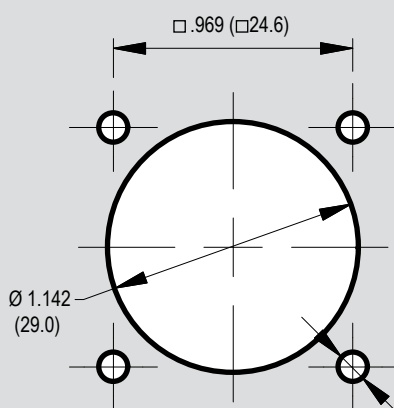


SQUARE FLANGE FRONT MOUNT
RECOMMENDED MOUNTING HOLES

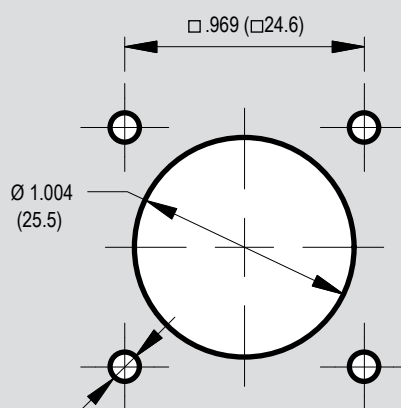


JAM NUT MOUNT
RECOMMENDED MOUNTING HOLE
PANEL THICKNESS .063-.126 (1.6 -3.2)

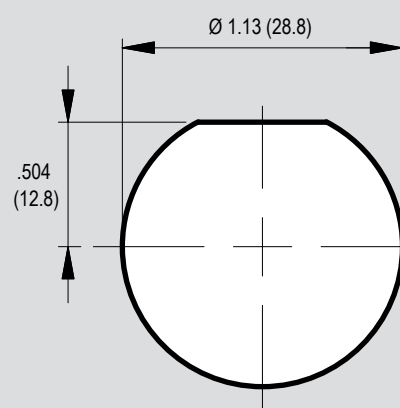
GLENAIR SERIES IPT (26482 TYPE) USB PANEL CUTOUTS FOR SHELL SIZE 16



SQUARE FLANGE REAR MOUNT
RECOMMENDED MOUNTING HOLES



SQUARE FLANGE FRONT MOUNT
RECOMMENDED MOUNTING HOLES



JAM NUT MOUNT
RECOMMENDED MOUNTING HOLE
PANEL THICKNESS .063-.126 (1.6 -3.2)

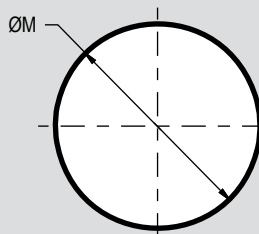


RJ45 ETHERNET AND USB 2.0 Recommended Panel Cutouts For MIL-DTL-28840 type connectors

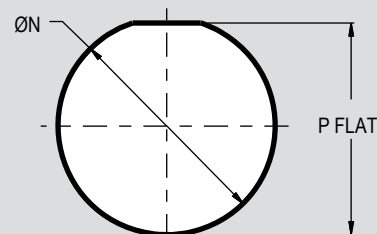


MIL-DTL-28840 TYPE PANEL CUTOUTS FOR RJ12 SHELL SIZE 15 AND 17

Recommended Panel Cutouts			
Shell Size	ØM	ØN	P Flat
15	1.124 (28.55)	1.203 (30.56) 1.193 (30.30)	1.165 (29.59) 1.155 (29.34)
17	1.187 (30.15)	1.265 (32.13) 1.255 (31.88)	1.228 (31.19) 1.218 (30.94)



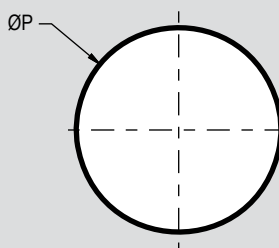
WALL MOUNT RECEPTACLE
MAX PANEL THICKNESS
.188 (4.78)



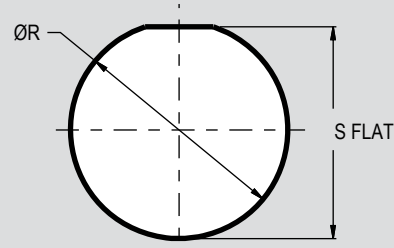
REAR PANEL MOUNT
JAM NUT RECEPTACLE
MAX PANEL THICKNESS
.188 (4.78)

MIL-DTL-28840 TYPE PANEL CUTOUTS FOR RJ45 FOR SHELL SIZE 17 AND 19

Panel Cutouts			
Shell Size	ØP	ØR	S Flat
17	1.187 (30.15)	1.265 (32.13) 1.255 (31.88)	1.228 (31.19) 1.218 (30.94)
19	1.374 (34.90)	1.453 (36.91) 1.443 (36.65)	1.415 (35.94) 1.405 (35.69)

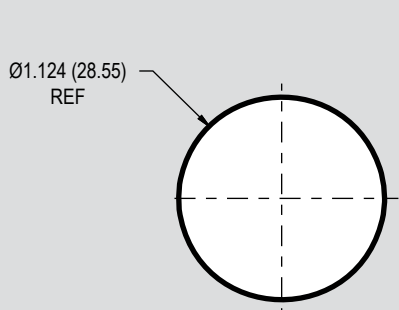


WALL MOUNT RECEPTACLE
MAX PANEL THICKNESS
.188 (4.78)

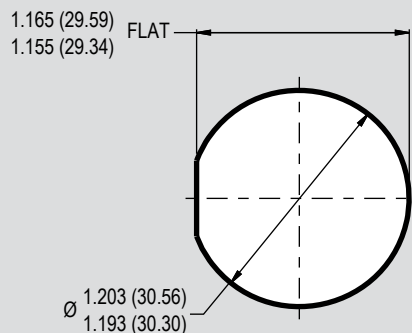


REAR PANEL MOUNT
JAM NUT RECEPTACLE
MAX PANEL THICKNESS
.188 (4.78)

MIL-DTL-28840 TYPE USB PANEL CUTOUTS FOR SHELL SIZE 15



WALL MOUNT RECEPTACLE
MAX PANEL THICKNESS
.188 (4.78)



JAM NUT RECEPTACLE
REAR PANEL MOUNT
MAX PANEL THICKNESS
.188 (4.78) MAX



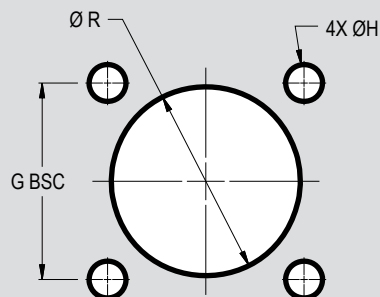
RJ45 ETHERNET AND USB 2.0 Recommended Panel Cutouts



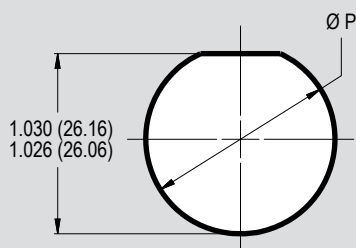
For Mighty Mouse Series 801, 804 and 805
RJ45 ethernet connectors

A

SERIES 801 MIGHTY MOUSE PANEL CUTOUTS FOR SHELL SIZE 17 AND 19



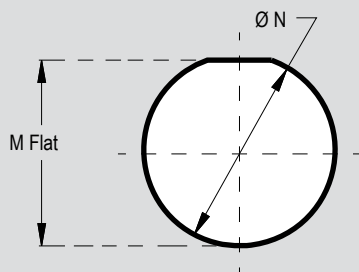
FRONT OR REAR PANEL MOUNT
SQUARE FLANGE RECEPTACLE



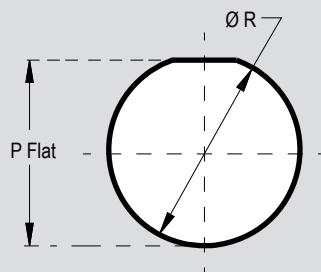
REAR PANEL MOUNT
JAM NUT RECEPTACLE

Panel Cut-Out Dimenions						
Shell Size	Mounting Style	N Flat	Ø P	G BSC	Ø H Holes	Ø R
17	Jam Nut	1.104 (28.04) 1.100 (27.94)	1.135 (28.83)	-	-	-
	Square Flange	-	-	1.060 (26.92)	.130 (3.30) .126 (3.20)	1.078 (27.38)
19	Jam Nut	1.235 (31.67) 1.231 (31.27)	1.260 (32.00)	-	-	-
	Square Flange	-	-	1.191 (30.25)	.130 (3.30) .126 (3.20)	1.203 (30.56)

SERIES 804 USB MIGHTY MOUSE PANEL CUTOUTS FOR SHELL SIZE 15 AND 16



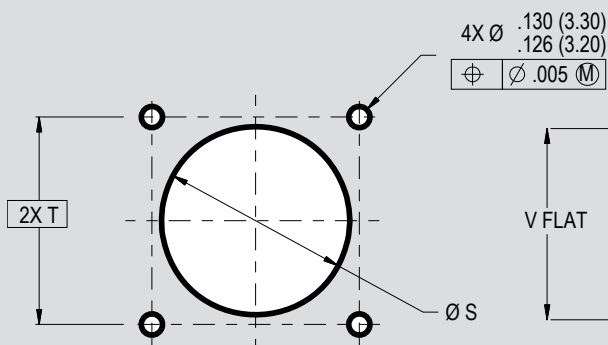
REAR PANEL MOUNT
JAM NUT RECEPTACLE



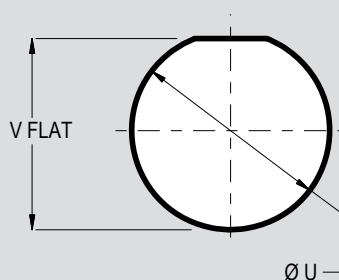
FRONT PANEL MOUNT
JAM NUT RECEPTACLE

Panel Cut-Out Dimenions					
Shell Size	Mounting Style	M Flat	Ø N	P Flat	Ø R
15	Front Mount	-	-	1.015 (25.78) 1.011 (25.68)	1.135 (28.83)
	Rear Mount	1.041 (26.44) 1.037 (26.34)	1.070 (27.18)	-	-
16	Front Mount	-	-	1.157 (29.38) 1.153 (29.27)	1.198 (30.43)
	Rear Mount	1.102 (27.99) 1.098 (27.89)	1.135 (28.83)	-	-

SERIES 805 USB MIGHTY MOUSE PANEL CUTOUTS FOR SHELL SIZE 19 AND 21



FRONT OR REAR PANEL MOUNT
SQUARE FLANGE RECEPTACLE
(NOTE: -12 & -22 REAR MOUNT ONLY
-02 FRONT OR REAR MOUNT)



REAR PANEL MOUNT
JAM NUT RECEPTACLE

Panel Cut-Out Dimenions				
Shell Size	Ø S	T BSC	Ø U	V Flat
19	1.203 (30.56)	1.327 (33.71)	1.262 (32.05) 1.258 (31.95)	1.233 (31.32) 1.229 (31.22)
	1.328 (33.73)	1.452 (36.88)	1.387 (35.23) 1.383 (35.13)	1.360 (34.54) 1.356 (34.44)

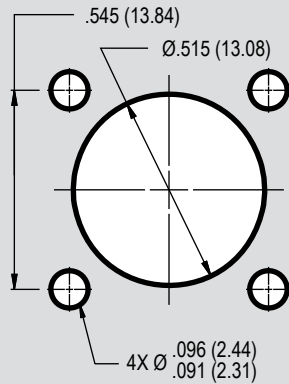


RJ45 ETHERNET AND USB 2.0 Recommended Panel Cutouts

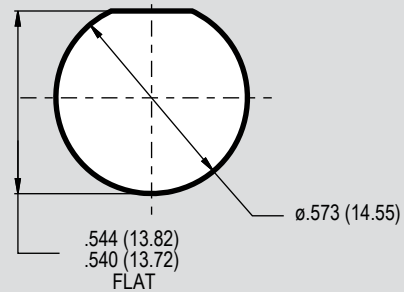


For Mighty Mouse Series 801 and 805
"Micro" USB connectors

SERIES 801 MIGHTY MOUSE PANEL CUTOUTS FOR MICRO USB SHELL SIZE 8

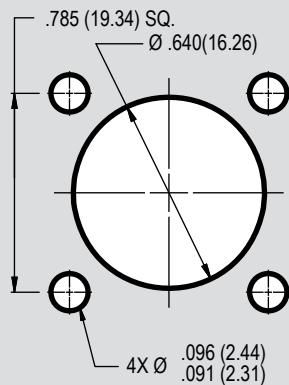


SQUARE FLANGE RECEPTACLE

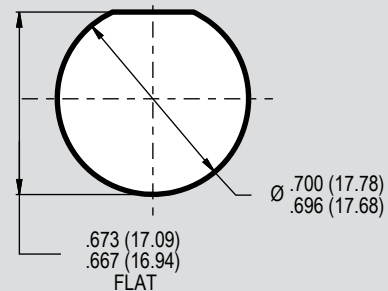


REAR PANEL MOUNT
JAM NUT RECEPTACLE

SERIES 805 MIGHTY MOUSE PANEL CUTOUTS FOR MICRO USB SHELL SIZE 10



SQUARE FLANGE RECEPTACLE



REAR PANEL MOUNT
JAM NUT RECEPTACLE



RJ45 ETHERNET AND USB 2.0

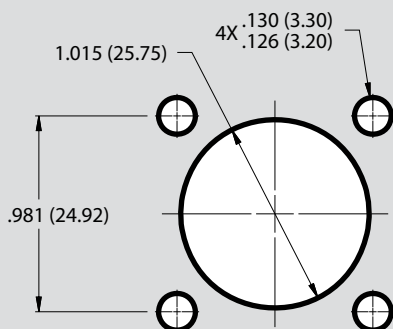
Recommended Panel Cutouts



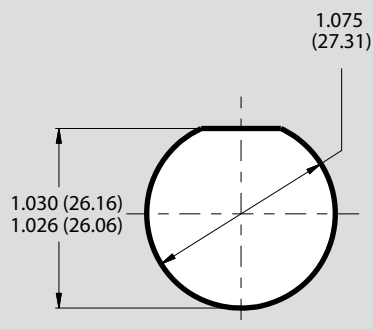
For Mighty Mouse Series 801, 804 and 805
Type A standard USB connectors

A

SERIES 801 MIGHTY MOUSE PANEL CUTOUTS FOR SHELL SIZE 16

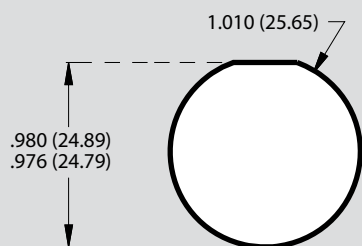


FRONT OR REAR PANEL MOUNT
SQUARE FLANGE RECEPTACLE

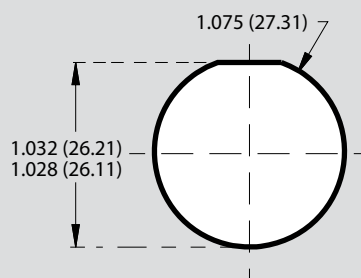


REAR PANEL MOUNT
JAM NUT RECEPTACLE

SERIES 804 USB MIGHTY MOUSE PANEL CUTOUTS FOR SHELL SIZE 14

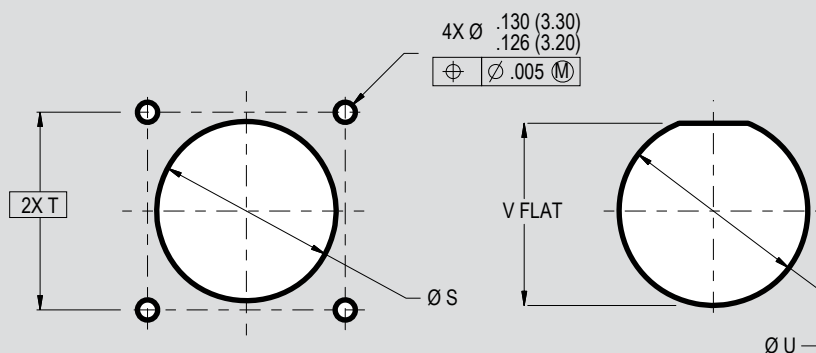


REAR PANEL MOUNT
JAM NUT RECEPTACLE



FRONT PANEL MOUNT
JAM NUT RECEPTACLE

SERIES 805 USB MIGHTY MOUSE PANEL CUTOUTS FOR SHELL SIZE 18



FRONT OR REAR PANEL MOUNT
SQUARE FLANGE RECEPTACLE
(NOTE: -12 & -22 REAR MOUNT ONLY
-02 FRONT OR REAR MOUNT)

REAR PANEL MOUNT
JAM NUT RECEPTACLE



RJ45 ETHERNET AND USB 2.0

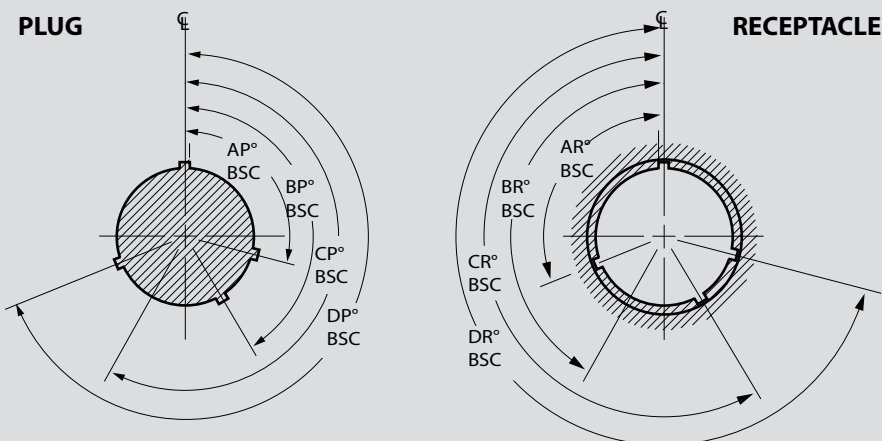
Alternate Key and Keyway Positions



For MIL-DTL-38999 and MIL-DTL 28840 type connectors

MIL-DTL-38999 POLARIZATION KEY(PLUG) AND KEYWAY (RECEPTACLE) POSITIONS

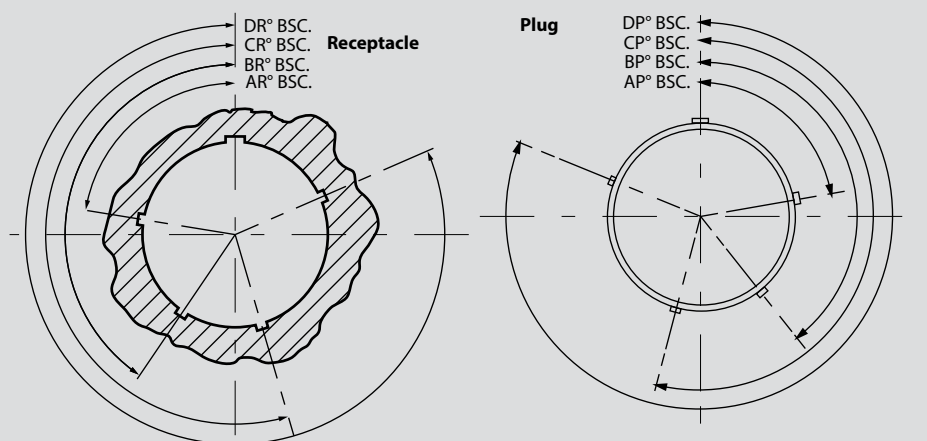
Alternate Key and Keyway Polarization					
Shell Size	Key and Keyway Code	AR° or AP° BSC	BR° or BP° BSC	CR° or CP° BSC	DR° or DP° BSC
17 19	N	80	142	196	293
	A	135	170	200	310
	B	49	169	200	244
	C	66	140	200	257
	D	62	145	180	280
	E	79	153	197	272



A

MIL-DTL-28840 POLARIZATION KEY AND KEYWAY ARRANGEMENTS

Alternate Key and Keyway Polarization					
Shell Size	Key and Keyway Code	AR° or AP° BSC	BR° or BP° BSC	CR° or CP° BSC	DR° or DP° BSC
15 (C) 17 (D)	1	80	142	196	293
	2	135	170	200	310
	3	49	169	200	244
	4	66	140	200	257
	5	62	145	180	280
	6	79	153	197	272
19 (E)	1	80	142	196	293
	2	135	170	200	310
	3	49	169	200	244
	4	66	140	200	257
	5	62	145	180	280
	6	79	153	197	272





RJ45 ETHERNET AND USB 2.0

Alternate Key and Keyway Positions

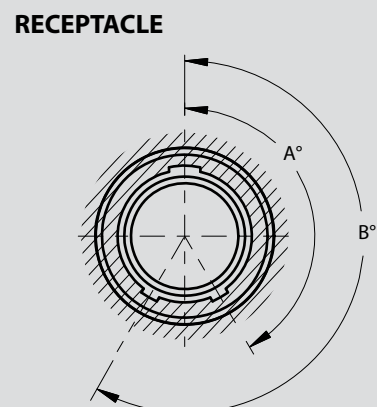
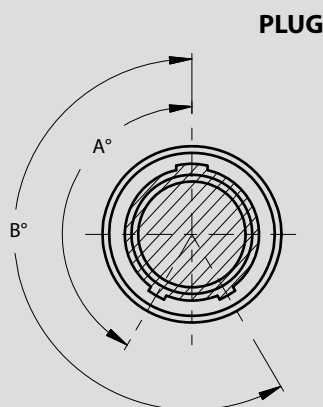


Mighty Mouse Series 801 and 805 connectors

A

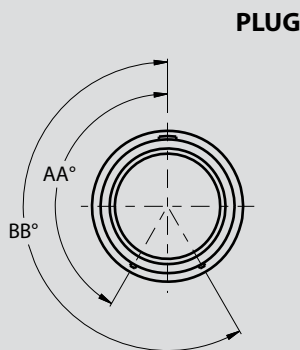
SERIES 801 MIGHTY MOUSE ALTERNATE KEY(PLUG) KEYWAY (RECEPTACLE) POSITIONS

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

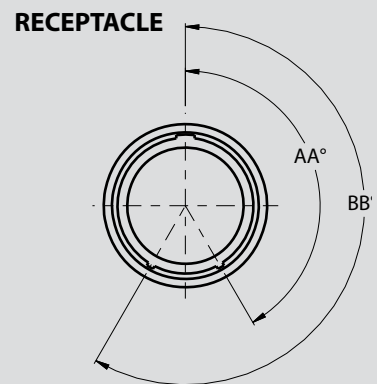


SERIES 805 MIGHTY MOUSE ALTERNATE KEY(PLUG) KEYWAY (RECEPTACLE) POSITIONS

Alternate Key and Keyway Positions		
Position	AA°	BB°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°



Normal and Alternate Position Key Rotation (Plug)



Normal and Alternate Position Keyway Rotation (Receptacle)



RJ45 ETHERNET AND USB 2.0

PCB Footprint and Orientation Options

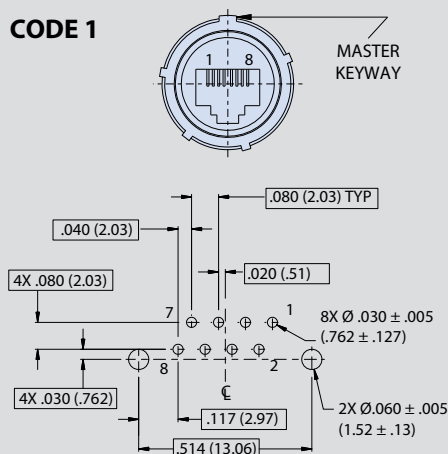


For SuperSeal™ PCB receptacles

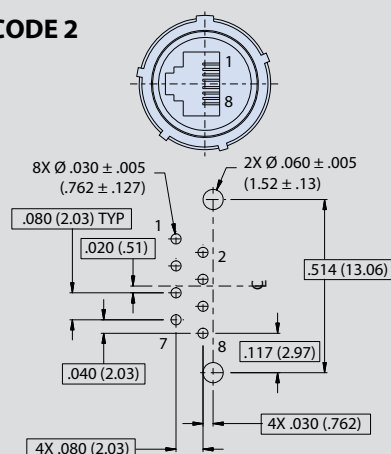
Shown from solder side (bottom) of board

RJ45 PCB FOOTPRINT AND ORIENTATIONS FOR MIL-DTL-38999, 5015, 26482 AND MIGHTY MOUSE SERIES 80

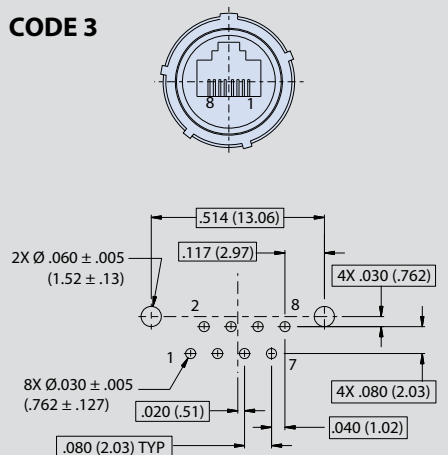
CODE 1



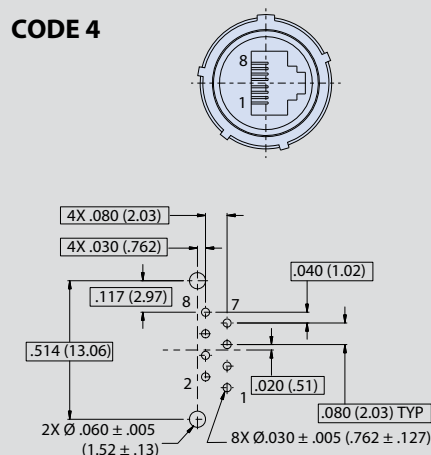
CODE 2



CODE 3

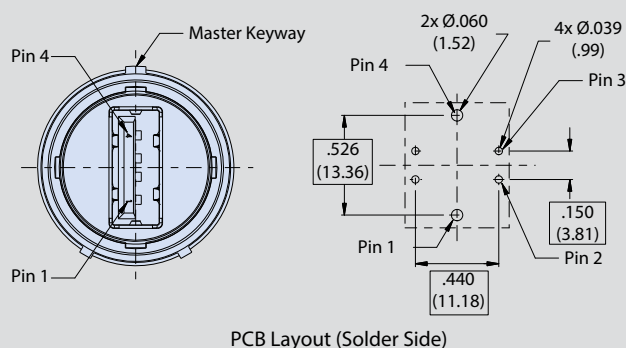


CODE 4

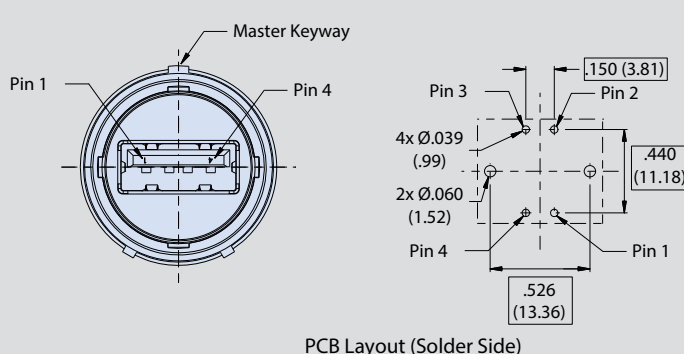


STANDARD USB 2.0 PCB FOOTPRINTS FOR MIL-DTL-38999, 5015, 26482 AND MIGHTY MOUSE SERIES 80

V (VERTICAL)



H (HORIZONTAL)





A

ASTM E595 Outgassing

MOD CODE 186S

- SuperSeal® connectors specially processed to meet ASTM E595 outgassing requirements.
- Modification code specifies special outgassing bakeout processing.
- Meets NASA Screening Level 1 requirements

Space flight equipment requires low-outgassing components in order to prevent degradation to optics and other sensitive instruments. The space industry has adopted a standardized test procedure, ASTM E595, to evaluate outgassing properties. In the ASTM test, material samples are heated to 125° C at a vacuum of 5×10^{-5} torr for 24 hours. The test sample is then weighed to calculate the Total Mass Loss (TML), which may not exceed 1.0% of the total initial mass. A collector plate is used to determine the Collected Volatile Condensable Material (CVCM), which may not exceed 0.1% of the total original specimen mass. SuperSeal™ connectors contain nonmetallic materials such as rubber, plastic, adhesives and potting compounds which can give off gases when subjected to a vacuum or high heat. Unless the connector is specially processed, the TML and CVCM can exceed allowable limits. Glenair is able to offer a bakeout process, 48 hour oven bakeout at 257° F, which assures all materials comply with ASTM E595

UL 94 V-0 Flamability Standard

MOD CODE 928

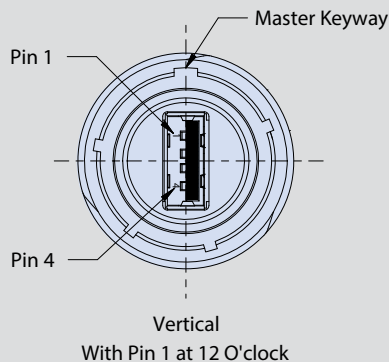
- SuperSeal® connectors specially processed to meet UL 94 V-0 flammability standard

UL 94, the Standard for Safety of Flammability of Plastic Materials for Parts in Devices and Appliances testing is a plastics flammability standard released by Underwriters Laboratories of the USA. The standard classifies plastics according to how they burn in various orientations and thicknesses. From lowest (least flame-retardant) to highest (most flame-retardant) V-0. Burning stops within 10 seconds on a vertical specimen; specimens may not drip flaming particles.

Flip Vertical USB Orientation by 180 degrees

MOD CODE 915

Flip standard, vertically oriented USB designs 180 degrees, allowing pin 1 to be located at the 12 O'clock position.





SuperSeal™

USB 3.0 connectors Coming Soon

The latest version of the Universal Serial Bus (USB) standard for interfacing computers and electronic devices sees a significant speed increase over the previous standard. The USB 2.0 standard offers a theoretical maximum signaling rate of 480 megabits per second, while USB 3.0 defines a maximum rate of 5 gigabits per second—more than ten times faster than USB 2.0. To achieve this, one-way communication on USB 2.0 has been dropped. USB 3.0 uses two unidirectional data paths, one to receive data and the other to transmit. USB 3.0 also provides up to 900mA of power when needed (better power management helps to conserve power when connected devices sit idle), as well as robust sealing against fluids and dust for harsh environments with 1P67-rated sealing in an unmated condition and IP68-rated when mated. Significantly, USB 3.0 delivers improved EMI/RFI shielding as well as improved shock and vibration protection. Scheduled for release across the following connector types: 38999, 5015 (ITS), 26482 (IPT), 28840 and Mighty Mouse. Glenair is committed to offering an evolving range of protocol support and termination options to meet advanced communication requirements in harsh environmental conditions.



- **USB 3.0 protocol**
- **High-speed data transmission rate of up to 5Gb/s**
- **High-sealing capability: IP67 rated in unmated condition. 1P68 rated in mated condition**
- **Planned roll-out across all SuperSeal™ connector form factors including D38999, 5015 (ITS), 26482 (IPT), 28840 and Mighty Mouse Series 801, 804 and 805**

MIL-DTL-38999 TYPE
FIELD-READY
RJ45 ETHERNET

SUPERSEAL™



Rugged environmental MIL-DTL-38999 type connectors with IP67 unmated sealing, robust insert-to-shell grounding, and a complete range of wire, cable, and circuit board terminations



Features

- Superior sealing—IP68 when mated—for complete system protection against water, sand and dust
- Highly durable RJ45 design, including enhanced operating temperature, increased life-cycle, and rugged vibration and shock performance
- Shielded/grounded coupler designs in both receptacle and plug connectors
- Crimp, solder-cup, PC tail, and Quadrax contact/wire termination options
- RJ45 plug and/or jack interface options available in Cat 5e or Cat 6a
- Industry standard scoop proof, self-locking, triple-start threaded coupling design of MIL-DTL-38999 Series III type connectors
- Intermateable with other MIL-DTL-38999 type RJ45 field-duty connectors



Glenair, Inc.
1211 Air Way
Glendale, CA 91201-2497
818-247-6000
sales@glenair.com
www.glenair.com



RJ45 CAT 5E/6A ETHERNET

MIL-DTL-38999 Series III Type Connectors



Product Selection Guide

B



233-312

E-9

SuperSeal™ CAT 6A Plug with RJ45 Male Mating Interface and Accessory Threads



233-330

E-22

SuperSeal™ CAT 5e and 6A Feed-thru Receptacle with Jack-to-Jack RJ45.



233-300

E-10

SuperSeal D38999 Type plug with CAT 5e or 6A RJ45 Plug or D38999 Type Receptacle with CAT 5e or 6A RJ45 Jack. D38999 Type Shells with Accessory Threads



Cable Assemblies

E-24

SuperSeal™ CAT 5e Cable Assemblies



233-301

E-12

SuperSeal™ CAT 5e Receptacle Adapter with RJ45 Mating Interface and Crimp Removable Contacts.

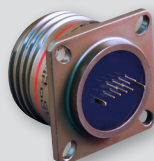


Transient Voltage

E-25

Suppression (TVS) RJ45 Connectors

Prevents Catastrophic EMP Failure in Military and Commercial Aircraft



233-302

E-14

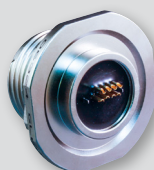
SuperSeal™ CAT 5e Receptacle with RJ45 Mating Interface and PC Tail Termination.



244-001

E-27

SuperSeal™ CAT 5e Transient Voltage Suppression, Jam-Nut Receptacle with Standoffs and RJ45 Jack to PC Tail or Solder Cup Termination.



233-303

E-16

SuperSeal™ CAT 5e Receptacle with RJ45 Mating Interface and Solder Cup Termination.



244-002

E-28

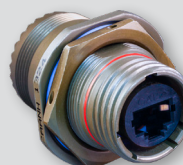
SuperSeal™ CAT 5e Transient Voltage Suppression, Wall Mount Receptacle with Standoffs and RJ45 Jack, Mating Interface to PC Tail or Solder Cup.



233-304

E-18

SuperSeal™ CAT 5e MIL-STD-1560 Interface Receptacle Adapter with Accessory Threads and Rear RJ45 Jack.



244-003

E-29

SuperSeal™ CAT 5e Transient Voltage Suppression Jam-Nut Receptacle with Accessory Threads and RJ45 Jack, Mating Interface to PC Tail or Solder Cup.



233-305

E-20

SuperSeal™ CAT 5e Quadrx Interface Receptacle Adapter with Accessory Threads and Rear RJ45 Jack.



244-004

E-30

SuperSeal™ CAT 5e Transient Voltage Suppression Wall Mount Receptacle with Accessory Threads and RJ45 Jack, Mating Interface to PC Tail or Solder Cup.

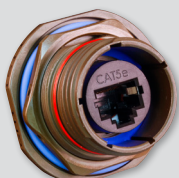


SERIES 23 SuperSeal™

Performance Hardened CAT 6A and CAT 5e

The SuperSeal family of ruggedized Cat 5e and 6A SuperNine connectors are IP68 rated in the mated condition for reliable environmental field use. SuperSeal connectors provide military grade protection and durability for operational use under harsh environmental conditions. SuperSeal connectors benefit from increased operating temperature range, longer life cycle and, significantly improved vibration and shock performance. CAT 5e and 6A RJ45 Ethernet is the standard data communication protocol for gathering, distribution and sharing of C4ISR information to and from command and field units within military, police fire and rescue organizations. SuperSeal provides key performance benefits including superior sealing, grounding, and wire termination for more flexible and reliable communications in rugged field applications.

- CAT 5e and CAT 6A versions available
- IP67 unmated—for complete system protection against water, sand and dust
- Highly durable SuperSeal™ insert design, provides enhanced operating temperature, increased life-cycle, and rugged vibration and shock performance
- Crimp, solder-cup, PC tail and cable assemblies



Jam-nut
Mount



Wall
Mount



Cable
Assemblies



RJ45 CAT 5E AND 6A ETHERNET MIL-DTL-38999 Series III Type Connectors

Performance Specifications



B

RJ45 CAT 5e Performance Specifications

Property	MIL-DTL-38999 Series III Type
----------	----------------------------------

Material and Finish

Shell/Coupling and Plating	Complete list of options available in the Material and Finish Options portion of this section
Contacts	PC tails, solder cup, and crimp contacts: copper alloy, gold plated
RJ45 Insulator	PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Shell Sizes	17 and 19
Shielding Sleeve	Material: Copper alloy Finish: Nickel

Electrical Specifications

Data Rate	CAT 5e = 10 BASE-T, 100 BASE-TX, and 1000 BASE-T/1000 BASE-TX
Current Rating	Cat 5e, 1.5 Amps
D.W.V.	1000 VDC (700 VAC)
I.R.	500 Mega ohms @ 500 VDC
Frequency	100 MHz, Cat 5e
Wiring	Straight through, Cat 5e
Cabling Length	Up to 100 meters or 100 meters max.
Shield Continuity	Continuous through coupler or continuous coupler to shell

Environmental/Mechanical Performance

Sealing	IP68 mated condition, IP67 unmated condition
Outgassing	Mod Code 186S meets outgassing requirements per ASTM E 595 and meets NASA level 3 screening for standard reliability Mod Code 928 meets outgassing requirements per UL 94 V-0
Operating Temperature	-40°C to +120°C
Vibration	20g, 3 Axis, 10 - 2000Hz
Mechanical Shock	300 g's
Backshell Interface	MIL-DTL-38999, Designator H
Mating System	Triple-start stub ACME
Mating Cycles	500

RJ45 CAT 6A Performance Specifications

Property	MIL-DTL-38999 Series III Type
----------	----------------------------------

Material and Finish

Shell/Coupling and Plating	Complete list of options available in the Material and Finish Options portion of this section
Contacts	crimp contacts: copper alloy, gold plated
RJ45 Insulator	PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Shell Sizes	17 and 19
Shielding Sleeve	Material: Copper alloy Finish: Nickel

Electrical Specifications

Data Rate	CAT 6A = 10G BASE-T
Current Rating	Cat 6A, 1.5 Amps
D.W.V.	1000 VDC (700 VAC)
I.R.	500 Mega ohms @ 500 VDC
Frequency	500 MHz, Cat 6A
Wiring	Straight through, Cat 6A
Cabling Length	Up to 100 meters.
Shield Continuity	Continuous through coupler or continuous coupler to shell

Environmental/Mechanical Performance

Sealing	IP68 mated condition IP67 unmated condition
Outgassing	Mod Code 186S meets outgassing requirements per ASTM E 595 and meets NASA level 3 screening for standard reliability Mod Code 928 meets outgassing requirements per UL 94 V-0
Operating Temperature	-40°C to +120°C
Vibration	20g, 3 Axis, 10 - 2000Hz
Mechanical Shock	300 g's
Backshell Interface	MIL-DTL-38999, Designator H
Mating System	Triple-start stub ACME
Mating Cycles	500



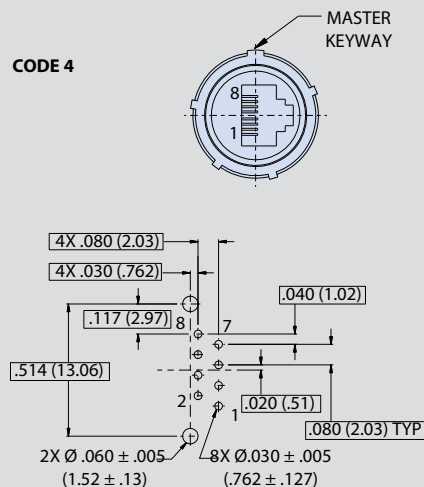
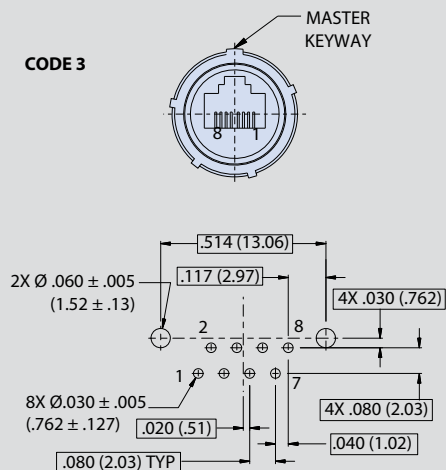
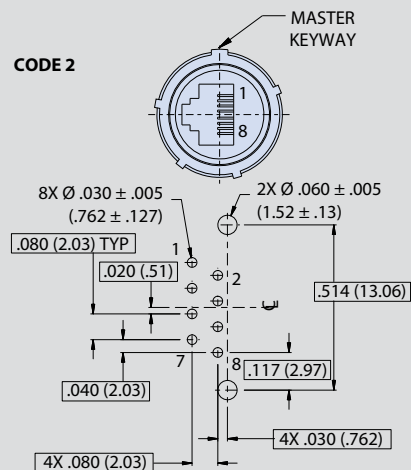
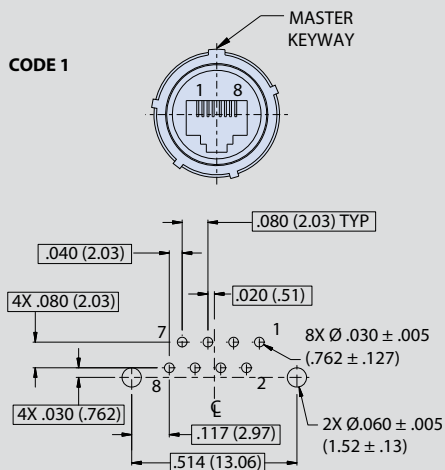
RJ45 CAT 5E ETHERNET

MIL-DTL-38999 Series III Type Connectors



RJ45 PCB Footprints, Jack Orientation Options

MIL-DTL-38999 TYPE, SUPERSEAL RJ45 PANEL CUTOUTS FOR SHELL SIZE 17 AND 19





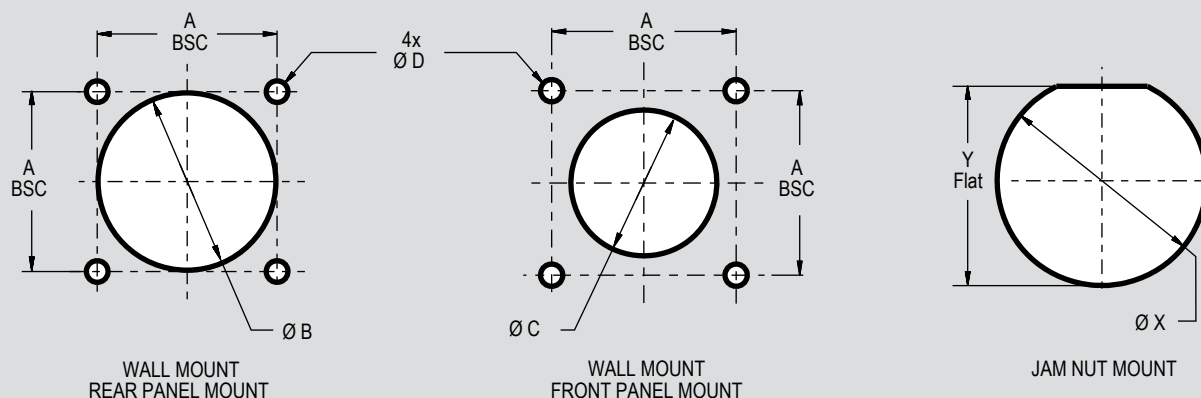
RJ45 CAT 5E ETHERNET

MIL-DTL-38999 Series III Type Connectors



Panel Cut-out Dimensions

MIL-DTL-38999 TYPE, SUPERSEAL RJ45 PANEL CUTOUTS FOR SHELL SIZE 17 AND 19



Panel Cut-Out Dimensions						
Shell Size	A Bsc	B Dia Min	C Dia Min	D Holes	X Dia	Y Flat
17	1.062 (26.97)	1.219 (30.96)	1.016 (25.81)	.133 (3.38)	1.270 (32.26)	1.210 (30.73)
				.123 (3.12)	1.260 (32.00)	1.208 (30.68)
19	1.156 (29.36)	1.297 (32.94)	1.141 (28.98)		1.395 (35.43)	1.335 (33.91)
					1.385 (35.18)	1.325 (33.66)



RJ45 CAT 5E/6A ETHERNET

MIL-DTL-38999 Series III Type Connectors



Recommended Panel Cutouts

ASTM E595 Outgassing

MOD CODE 186S

- SuperSeal® connectors specially processed to meet ASTM E595 outgassing requirements.
- Modification code specifies special outgassing bakeout processing.
- Meets NASA Screening Level 1 requirements

Space flight equipment requires low-outgassing components in order to prevent degradation to optics and other sensitive instruments. The space industry has adopted a standardized test procedure, ASTM E595, to evaluate outgassing properties. In the ASTM test, material samples are heated to 125° C at a vacuum of 5×10^{-5} torr for 24 hours. The test sample is then weighed to calculate the Total Mass Loss (TML), which may not exceed 1.0% of the total initial mass. A collector plate is used to determine the Collected Volatile Condensable Material (CVCM), which may not exceed 0.1% of the total original specimen mass. SuperSeal™ connectors contain nonmetallic materials such as rubber, plastic, adhesives and potting compounds which can give off gases when subjected to a vacuum or high heat. Unless the connector is specially processed, the TML and CVCM can exceed allowable limits. Glenair is able to offer a bakeout process, 48 hour oven bakeout at 257° F, which assures all materials comply with ASTM E595

UL 94 V-0 Flammability Standard

MOD CODE 928

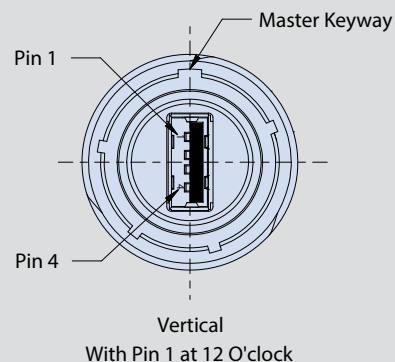
- SuperSeal® connectors specially processed to meet UL 94 V-0 flammability standard

UL 94, the Standard for Safety of Flammability of Plastic Materials for Parts in Devices and Appliances testing is a plastics flammability standard released by Underwriters Laboratories of the USA. The standard classifies plastics according to how they burn in various orientations and thicknesses. From lowest (least flame-retardant) to highest (most flame-retardant) V-0. Burning stops within 10 seconds on a vertical specimen; specimens may not drip flaming particles.

Flip Vertical USB Orientation by 180 degrees

MOD CODE 915

Flip standard, vertically oriented USB designs 180 degrees, allowing pin 1 to be located at the 12 O'clock position.



MIL-DTL-38999 Connector and Cable Assembly Material and Finish Codes

Code	Material	Finish	Finish Specification	Hrs. Salt Spray	Electrical Conductivity	Operating Temp. Range	RoHS Compliance
ME	Aluminum	Electroless Nickel	MIL-DTL-24308 Class K	96	Yes		Yes
MT	Aluminum	Nickel PTFE	SAE AMS2454	500	Yes	-65° to +175°C	Yes
NF	Aluminum	Cadmium, Olive Drab	SAE-AMS-QQ-P-416 Type II Class 2 over electroless nickel	500	Yes	-65 to +175°C	No
ZR	Aluminum	Zinc-Nickel, Black	ASTM B841 Grade 5 over electroless nickel	500	Yes	-65 to +175°C	Yes



RJ45 CAT 5E/6A ETHERNET

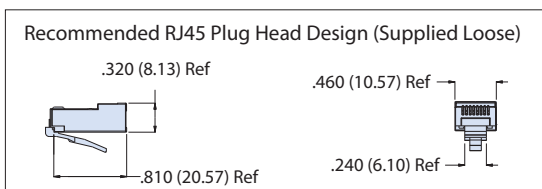
MIL-DTL-38999 Series III Type Connectors



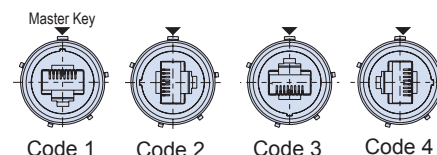
233-312 Plug with accessory threads

B

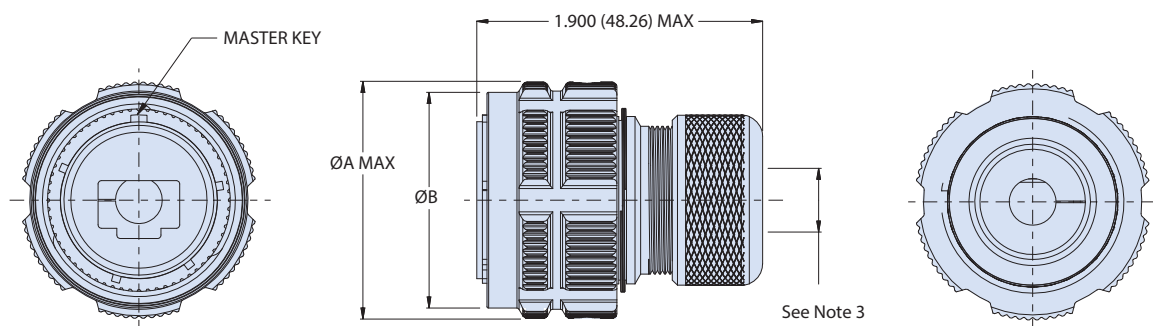
Part Number Development						
Sample Part Number	233-312	NF	G6	-17	6A	N 1
Series / Basic Part No.	233-312 = Cat 6A interface for D38999 type shell					
Material/Finish	NF = Aluminum/cadmium olive drag MT = Aluminum/nickel PTFE ME = Aluminum/electroless nickel ZR = Aluminum/zinc-nickel					
Connector Style	G6 = Plug					
Shell Size	17 and 19					
RJ45 Category	6A = Cat 6A					
Alternate Polarization	A, B, C, D, E, N = Normal; Per MIL-DTL-38999					
RJ45 Orientation	1, 2, 3, 4					



RJ45 Orientation Options (Plug Face)



G6 - Plug



NOTES

- See assembly instructions AI233-312 for cable termination and connector assembly. Assembly instructions to be kitted with each shipment
- Designed to accommodate Cat6A RJ45 plug head part number: Cat6A = TSP8028C6A or equivalent. Plug module designed to terminate 28 awg conductors
- Design accommodates cable outside diameter 0.187 (4.750) to 0.312 (7.925)
- Plug connector designed to meet IP68 mated condition
- Material/finish:
 - Barrel, coupling nut: see part number

development. Composite coupling nut no plating required.

- Insulators: high grade rigid dielectric/N.A.
 - Seals: silicone based elastomer
 - Hardware: stainless steel/passivated
6. RJ45 plug specifications:
- RJ45 plug cable maintains shield continuity
 - RoHS compliant
- Electrical
- current rating: 1 amp
 - D.W.V.: 1000V DC/min
 - I.R.: 500 Mega ohms minimum @ 1000V DC
 - Operating temperature range: -20°C to +85°C

Dimensions		
Shell Size	ØA Max	ØB
17	1.406 (35.71)	1.276 (32.41) 1.268 (32.21)
19	1.516 (38.51)	1.382 (35.10) 1.374 (34.90)



RJ45 CAT 5E/6A ETHERNET

MIL-DTL-38999 Series III Type Connectors



233-300 Coupler with accessory threads



**Plug
Front View**



**Receptacle
Front View**



**Receptacle
Rear View**

Material and Finish¹

NF	Aluminum/Cadmium, Olive Drab
ME	Aluminum/Electroless Nickel
MT	Aluminum/Nickel PTFE
ZR	Aluminum/Black Zinc-Nickel

NOTES

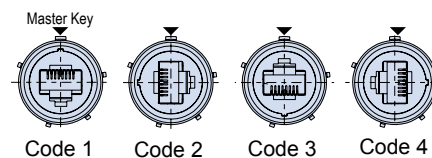
- See Section A for alternate key/keyway positions and panel cutout dimensions
- G option is inline shielded and grounded to shell, available for receptacle only
- Front panel mount only
- Meets IP67 in unmated condition, IP68 mated
- For shrink boot see part number 770-028
- Receptacle has RJ45 jack. Plug has RJ45 plug to jack

Part Number Development								
Sample Part Number	233-300	NF	00	G	17	5H	N	1 T
Basic Number	233-300							
Finish	See Material and Finish table							
Connector Style¹	See Connector Style table							
Insert-to-Shell Grounding	– = Inline shielded RJ45 insert G = Shielded and grounded to shell ²							
Shell Size	17 or 19							
RJ45 Category	5H = CAT 5e 6A = CAT 6A (CAT 6A receptacle only, for plug see 233-312)							
Alternate Key Position¹	Per MIL-DTL-38999 A, B, C, D, E, N = Normal							
RJ45 Orientation	1, 2, 3, or 4							
Shrink Boot	T = Part No. 770-028; see accessory section. (Omit for None)							

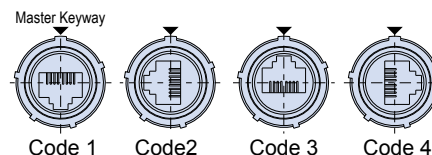
Connector Style¹

00	Wall mount receptacle with slotted holes ³
01	Wall mount receptacle with slotted holes and metal cable gland
05	Inline Receptacle
07	rear panel mount, jam nut receptacle
08	In-line receptacle with metal cable gland
D0	Wall mount receptacle with round holes
D1	Wall mount receptacle with round holes and metal gland
CM	Wall mount receptacle with metric clinch nuts
CG	Wall mount receptacle with metric clinch nuts and metal gland
CS	Wall Mount Receptacle with standard clinch nuts
G6	plug
G7	Plug with metal cable gland ⁵
G9	Plug with metal cable gland ⁵

RJ45 Orientation Options (Plug Face)



RJ45 Orientation Options (Receptacle Face)



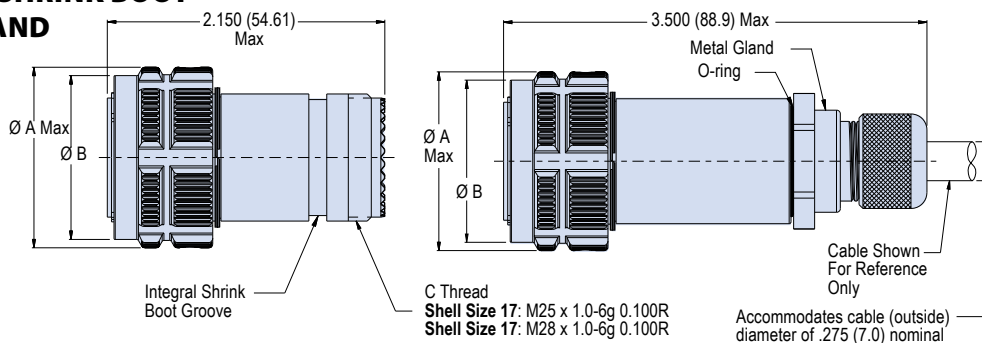
All external dimensions, features, etc. compliant with D38999/20, /24, &/26. Consult factory for additional information.

G6 - PLUG WITH INTEGRAL SHRINK BOOT

G7 - PLUG WITH METAL GLAND

G6 and G7 - plug Dimensions

Shell Size	A Dia Max		B Dia	
	in	mm	in	mm
17	1.406	35.71	1.276 1.268	32.41 32.21
19	1.516	38.51	1.382 1.374	35.10 34.90





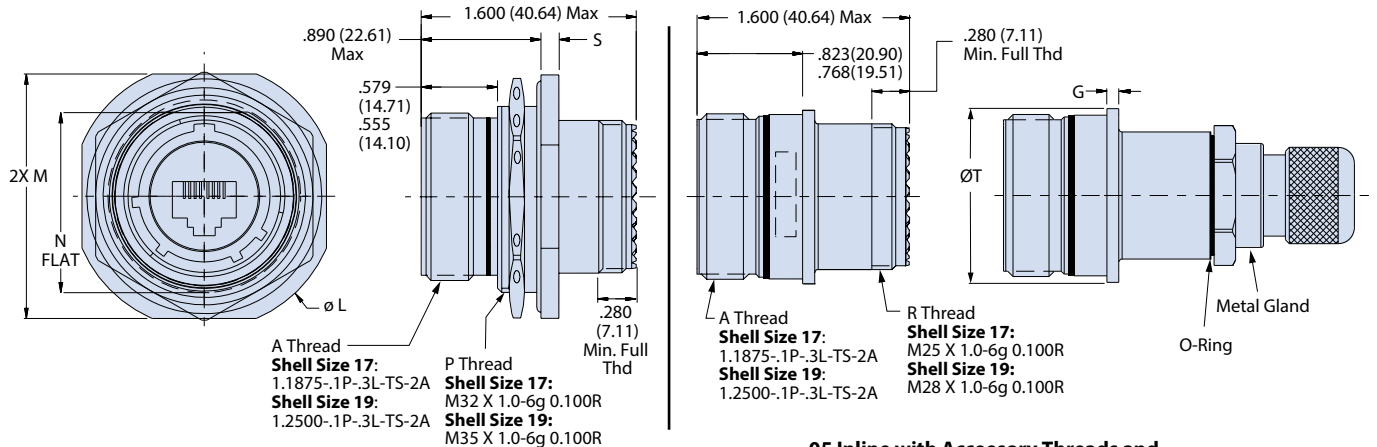
RJ45 CAT 5E/6A ETHERNET

MIL-DTL-38999 Series III Type Connectors



233-300 Coupler with accessory threads

07 - REAR PANEL MOUNT JAM NUT AND 05 OR 08 - INLINE RECEPTACLES

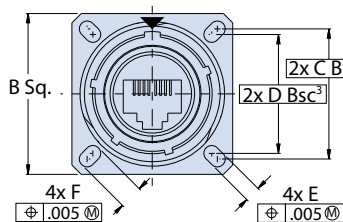


07 Jam Nut Receptacle (mating face and side view)

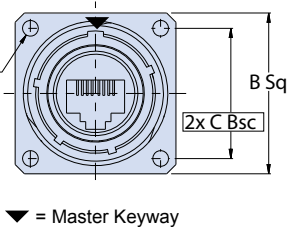
05 Inline with Accessory Threads and
08 Inline with Metal Gland (side view only)

00, 01, D0, D1, CM AND CG - WALL MOUNT RECEPTACLES WITH ACCESSORY THREADS OR METAL GLAND

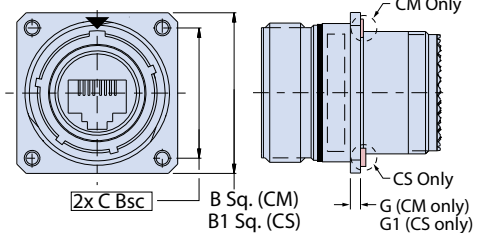
00, 01 - Wall Mount Receptacle
with Slotted Holes (Mating Face)



D0, D1 - Wall Mount Receptacle
with Round Holes (Mating Face)

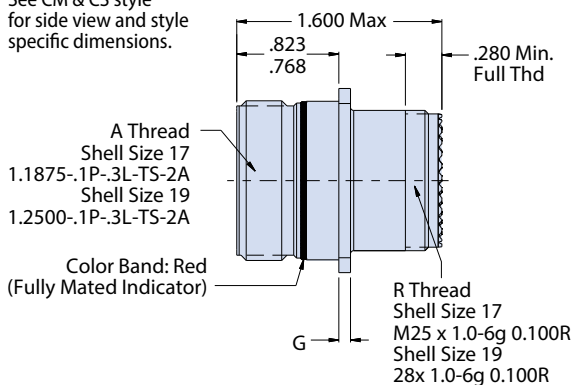


CM Metric and CS Standard - Wall Mount Receptacles
(Mating Face and Side View)

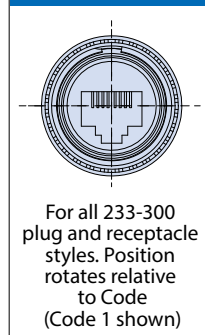


Note:
See CM & CS style
for side view and style
specific dimensions.

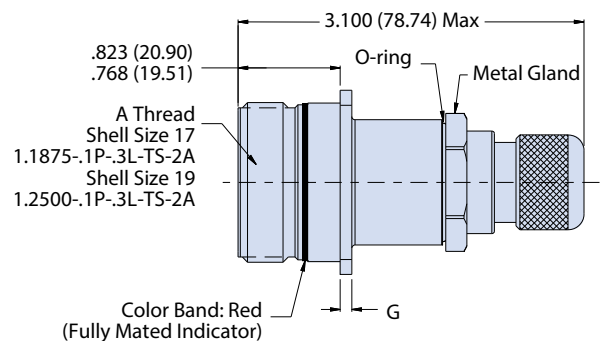
00, D0, CM - Wall Mount Receptacle



Rear View



01, D1, CG - Wall Mount Receptacle with Metal Gland



Jam Nut and Inline Receptacle Dimensions					
Shell Size	ØL	M	N	S	ØT Max
17	1.764 (44.81)	1.642 (41.71)	1.191 (30.25)	.122 (3.09)	1.275 (32.39)
	1.740 (44.20)	1.610 (40.89)	1.181 (30.00)	.083 (2.11)	
19	1.949 (49.50)	1.827 (46.41)	1.316 (33.43)	.153 (3.89)	1.337 (33.96)
	1.925 (48.90)	1.795 (45.59)	1.306 (33.17)	.114 (2.90)	

Wall Mount Receptacle Dimensions									
Shell Size	B Sq	B1 Sq	C Bsc	D Bsc ³	E	F	G	G1	ØJ Holes
17	1.323 (33.60)	1.437 (34.50)	1.062 (26.97)	.969 (24.61)	.136 (3.45)	.202 (5.13)	.098 (2.49)	.122 (3.10)	.136 (3.45)
	1.299 (32.99)	1.397 (35.48)						.083 (.58)	
19	1.449 (36.80)	1.531 (38.89)	1.156 (29.36)	1.062 (26.97)	.120 (3.05)	.186 (4.72)	.083 (2.11)	.153 (3.89)	.120 (3.05)
	1.425 (36.20)	1.491 (37.87)						.144 (3.66)	



RJ45 CAT 5E ETHERNET

MIL-DTL-38999 Series III Type Connectors



233-301 Receptacle with crimp removable contacts



Receptacle front View



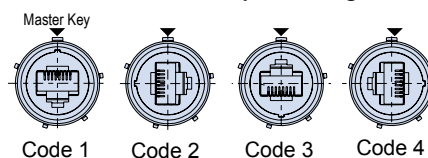
Receptacle rear View

Part Number Development									
Sample Part Number	233-301	NF	00	G	17	5H	N	1	T
Basic Number	233-301								
Finish	See Material and Finish table								
Connector Style	See Connector Style table								
Insert-to-Shell Grounding	– = Inline shielded RJ45 insert G = Shielded and grounded to shell ²								
Shell Size	17 or 19								
RJ45 Category	5H = CAT 5e For Cat 6A applications consult factory								
Alternate Key Position ¹	Per MIL-DTL-38999 A, B, C, D, E, N = Normal								
RJ45 Orientation	1, 2, 3, or 4								
Shrink Boot	T = Part No. 770-028 (Omit for None)								

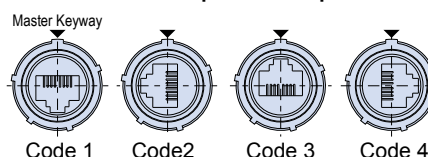
Connector Style ¹	
00	Wall mount receptacle with slotted holes
05	Inline Receptacle
07	rear panel mount, jam nut receptacle
D0	Wall mount receptacle with round holes
CM	Wall mount receptacle with metric clinch nuts
CS	Wall mount receptacle with metric clinch nuts
G6	plug

Material and Finish	
NF	Aluminum/Cadmium, Olive Drab
ME	Aluminum/Electroless Nickel
MT	Aluminum/Nickel PTFE
ZR	Aluminum/Black Zinc-Nickel

RJ45 Orientation Options (Plug Face)



RJ45 Orientation Options (Receptacle Face)



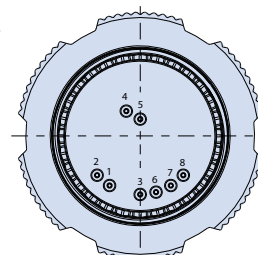
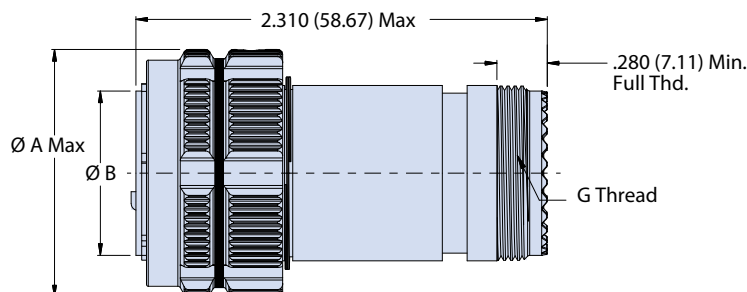
NOTES

- See Section A for alternate key/keyway positions and panel cutout dimensions
- G option is inline shielded and grounded to shell, available for receptacle only
- Front panel mount only
- Crimp removable size 22 pin contacts (M39029/58-360) supplied loose
- Meets IP67 in unmated condition and IP68 mated condition
- For shrink boot see part number 770-028
- Receptacle connector has RJ45 jack

All external dimensions, features, etc. compliant with D38999/20, /24, &/26. Consult factory for additional information.

G6 PLUG WITH ACCESSORY THREADS

Plug Dimensions				
Shell Size	A Dia Max		B Dia	
	in	mm	in	mm
17	1.406	35.71	.928 .922	23.57 23.42
19	1.516	38.51	1.033 1.027	26.24 26.09





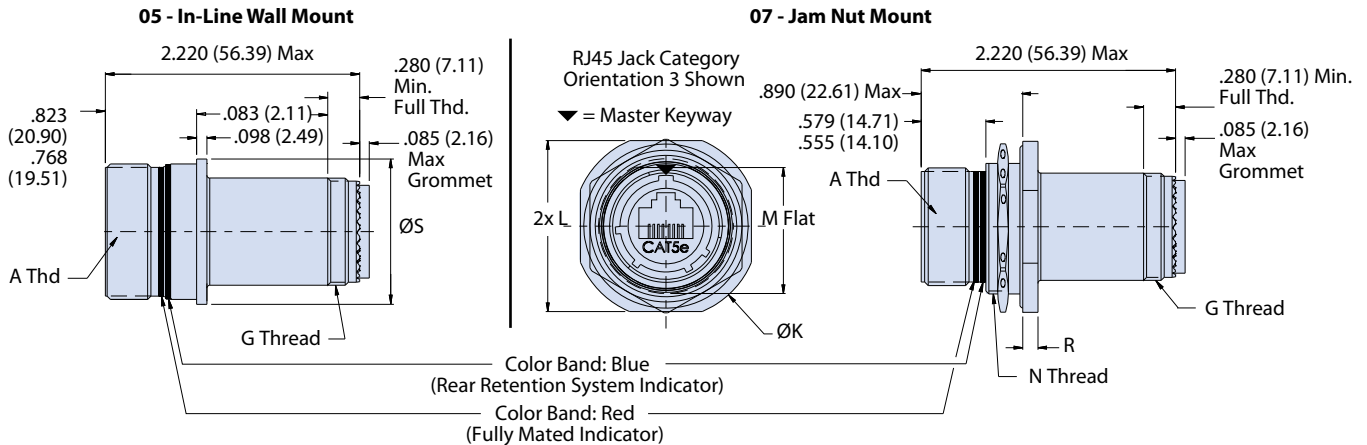
RJ45 CAT 5E ETHERNET

MIL-DTL-38999 Series III Type Connectors



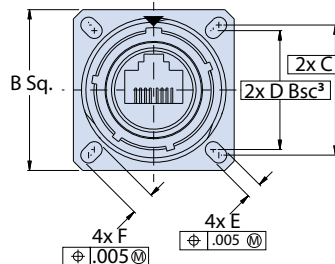
233-301 Receptacle with crimp removable contacts

05 - INLINE AND 07 - REAR PANEL MOUNT, JAM NUT RECEPTACLE WITH ACCESSORY THREADS

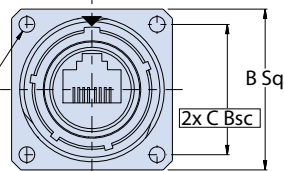


00, D0 AND CM - WALL MOUNT RECEPTACLES WITH ACCESSORY THREADS

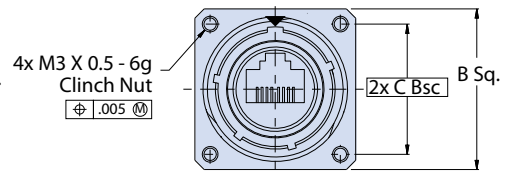
00 - Wall Mount Receptacle with Slotted Holes (Mating Face)



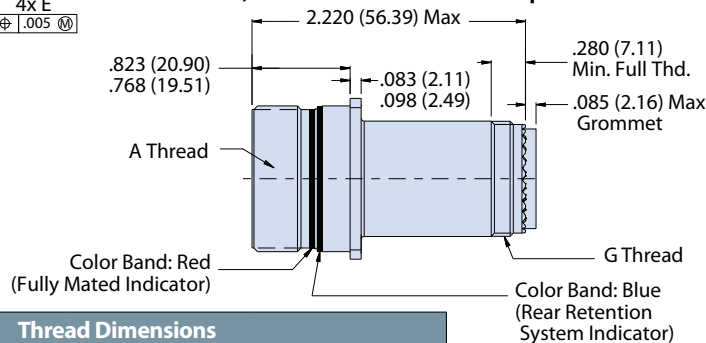
D0 - Wall Mount Receptacle with Round Holes (Mating Face)



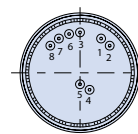
CM - Wall Mount Receptacle with Metric Clinch Nuts (Mating Face)



00, D0 and CM - Wall Mount Receptacle



Rear View



For all 233-301 receptacle styles position rotates relative to code. (Code 3 shown)

Thread Dimensions

Shell Size	A Thread	G Thread	N Thread
17	1.1875-.1P-.3L-TS-2A	M25 x 1.0-6g 0.100R	M32 x 1.0-6g 0.100R
19	1.2500-.1P-.3L-TS-2A	M28x 1.0-6g 0.100R	M35 x 1.0-6g 0.100R

In-line and Jam Nut Receptacle Dimensions

Shell Size	ØK	L	M	R	ØS
17	1.764 (44.81) 1.740 (44.20)	1.642 (41.71) 1.610 (40.89)	1.191 () 1.181 ()	.122 (3.09) .083 (2.11)	1.275 (32.39)
19	1.949 (49.50) 1.925 (48.90)	1.827 (46.51) 1.795 (45.59)	1.316 () 1.305 ()	.153 (3.89) .114 (2.90)	1.337 (33.96)

Wall Mount Receptacle Dimensions

Shell Size	B Sq	C Bsc	D Bsc³	E	F	Ø H Holes
17	1.323 (33.60) 1.299 (32.99)	1.062 (26.97)	.969 (24.61)	.136 (3.45)	.202 (5.13)	.136 (3.45)
19	1.449 (36.80) 1.425 (36.20)	1.156 (29.36)	1.062 (26.97)	.120 (3.05)	.186 (4.72)	.120 (3.05)



RJ45 CAT 5E ETHERNET

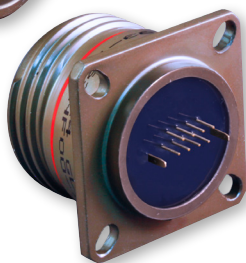
MIL-DTL-38999 Series III Type Connectors



233-302 Receptacle with PC tails



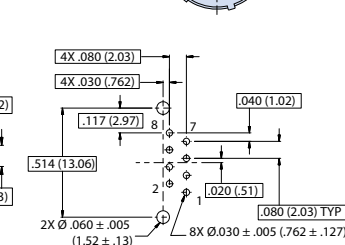
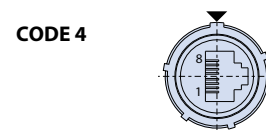
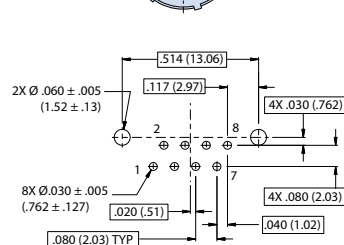
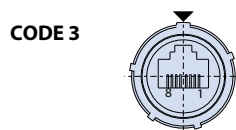
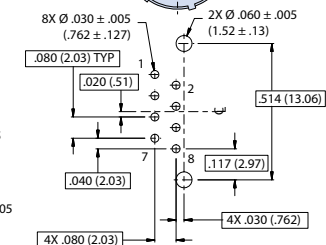
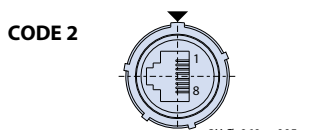
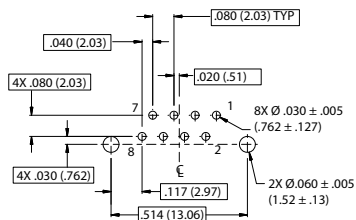
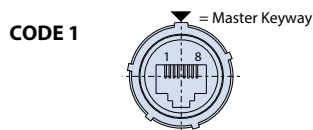
Receptacle front View



Receptacle rear View

Part Number Development								
Sample Part Number	233-302	NF	00	G	17	5H	N	1
Basic Number	233-302							
Finish	See Material and Finish table							
Connector Style ¹	See Connector Style table							
Insert-to-Shell Grounding	– = Inline shielded RJ45 insert G = Shielded and grounded to shell ²							
Shell Size	17 or 19							
RJ45 Category	5H = CAT 5e For Cat 6A applications consult factory							
Alternate Key Position ¹	Per MIL-DTL-38999 A, B, C, D, E, N = Normal							
RJ45 Orientation	1, 2, 3, or 4							

RJ45 ORIENTATION OPTIONS AND PCB LAYOUT



Connector Style ¹	
00	Wall mount receptacle with slotted holes
07	rear panel mount, jam nut receptacle
D0	Wall mount receptacle with round holes
CM	Wall mount receptacle with metric clinch nuts

Material and Finish	
NF	Aluminum/Cadmium, Olive Drab
ME	Aluminum/Electroless Nickel
MT	Aluminum/Nickel PTFE
ZR	Aluminum/Black Zinc-Nickel

Jam Nut Dimensions								
Shell Size	Dia K		L		M Flat		P	
	in	mm	in	mm	in	mm	in	mm
17	1.764	44.81	1.642	41.71	1.191	30.25	.090	2.29
	1.740	44.20	1.610	40.89	1.181	30.00	.080	2.03
19	1.949	49.50	1.827	46.41	1.316	33.43	.150	3.81
	1.925	48.90	1.795	45.59	1.306	33.17	.140	3.56

Wall Mount Receptacle Dimensions														
Shell Size	B Sq		C BSC		D BSC ³		E		F		G1		Ø H Holes	
	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm
17	1.323	33.60	1.062	26.97	.969	24.61	.136	3.45	.202	5.13	.122	3.10	0.136	3.45
	1.299	32.99					.120	3.05	.186	4.72	.083	2.11		
19	1.449	36.80	1.156	29.36	1.062	26.97	.120	3.05	.186	4.72	.153	3.89	0.120	3.05
	1.425	36.20									.114	2.90		

NOTES

- See Section A for alternate key/keyway positions and panel cutout dimensions
- G option is inline shielded and grounded to shell, available for receptacle only
- Front panel mount only
- Meets IP67 in unmated condition, IP68 mated
- Receptacle connector has RJ45 jack



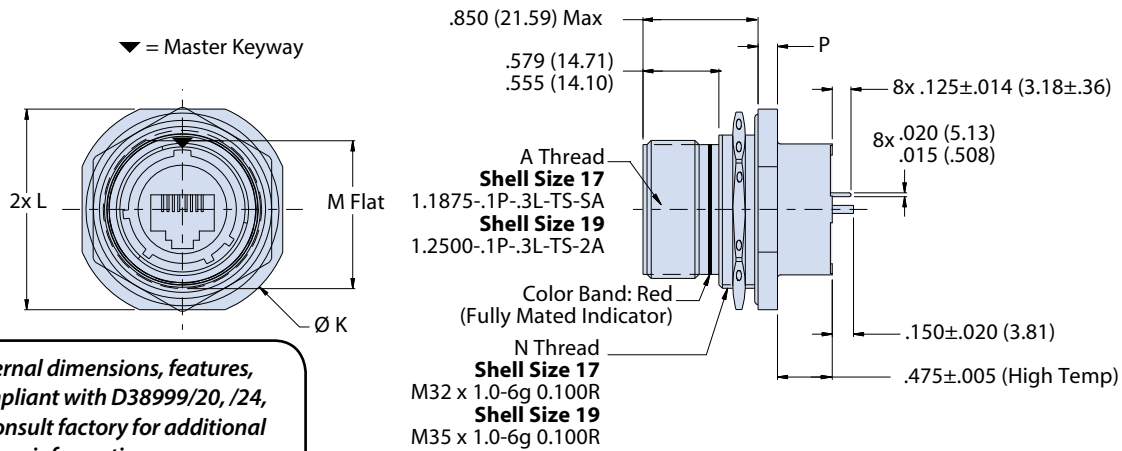
RJ45 CAT 5E ETHERNET

MIL-DTL-38999 Series III Type Connectors



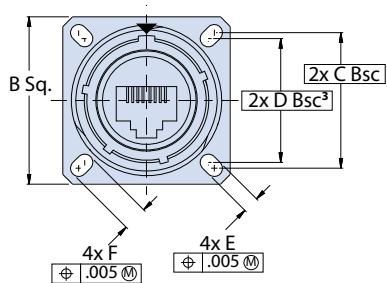
233-302 Receptacle with PC tails

07 - REAR PANEL MOUNT, JAM NUT RECEPTACLE

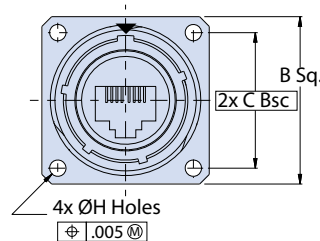


00, D0 AND CM - WALL MOUNT RECEPTACLES

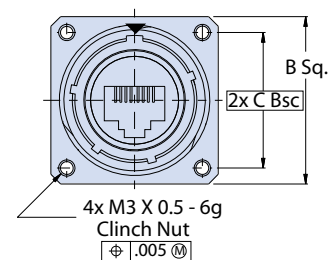
**00 - Wall Mount Receptacle
With Slotted Holes (Mating Face)**



**D0 - Wall Mount Receptacle
With Round Holes (Mating Face)**

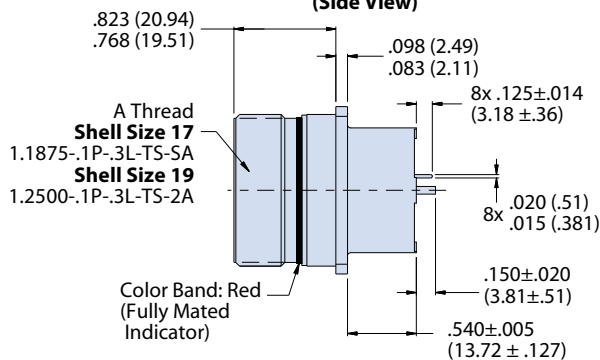


**CM - Wall Mount Receptacle
With Metric Clinch Nuts (Mating Face)**

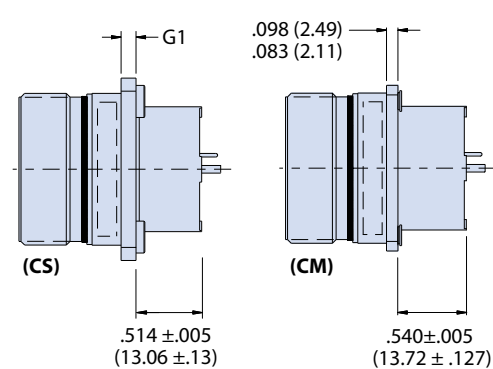


▼ = Master Keyway

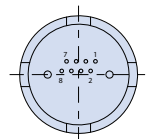
**00 and D0 - Wall Mount Receptacle
(Side View)**



**CS and CM - Wall Mount Receptacle
(Side View)**



Rear View



For all 233-302 receptacle styles position rotates relative to code (Code 1 shown)



RJ45 CAT 5E ETHERNET

MIL-DTL-38999 Series III Type Connectors



233-303 Receptacle with solder cups

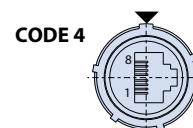
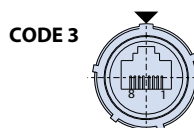
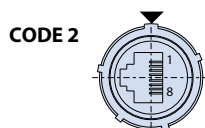
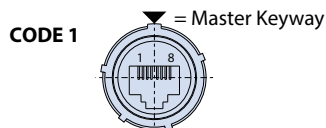


Receptacle front View

Receptacle rear View

Part Number Development								
Sample Part Number	233-303	NF	00	G	17	5H	N	1
Basic Number	233-303							
Finish	See Material and Finish table							
Connector Style ¹	See Connector Style table							
Insert-to-Shell Grounding	– = Inline shielded RJ45 insert G = Shielded and grounded to shell ²							
Shell Size	17 or 19							
RJ45 Category	5H = CAT 5e For Cat 6A applications consult factory							
Alternate Key Position ¹	Per MIL-DTL-38999 A, B, C, D, E, N = Normal							
RJ45 Orientation	1, 2, 3, or 4							

RJ45 ORIENTATION OPTIONS



Jam Nut Dimensions								
Shell Size	Ø J		K		L Flat		M	
	in	mm	in	mm	in	mm	in	mm
17	1.764	44.81	1.642	41.71	1.191	30.25	.122	3.10
	1.740	44.20	1.610	40.89	1.181	30.00	.083	2.11
19	1.949	49.50	1.827	46.41	1.316	33.43	.153	3.89
	1.925	48.90	1.795	45.59	1.306	33.17	.114	2.90

Material and Finish	
NF	Aluminum/Cadmium Olive Drab
ME	Aluminum/Electroless Nickel
MT	Aluminum/Nickel PTFE
ZR	Aluminum/Black Zinc-Nickel

Connector Style	
00	Wall mount receptacle with slotted holes
07	rear panel mount, jam nut receptacle
D0	Wall mount receptacle with round holes
CM	Wall mount receptacle with metric clinch nuts

Wall Mount Receptacle Dimensions												
Shell Size	B Sq		C Bsc		D Bsc		E		F		Ø G Holes	
	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm
17	1.323	33.60	1.062	26.97	.969	24.61	.136	3.45	.202	5.13	0.136	3.45
	1.299	32.99										
19	1.449	36.80	1.156	29.36	1.062	26.97	.120	3.05	.186	4.72	0.120	3.05
	1.425	36.20										

NOTES

- See Section A for alternate key/keyway positions and panel cutout dimensions
- G option is inline shielded and grounded to shell, available for receptacle only
- Front panel mount only
- Meets IP67 in unmated condition, IP68 mated
- Receptacle connector has RJ45 jack
- Materials and finishes
 - Shell, jam nut: Al alloy/optional
 - Seals: Silicone based elastomer
 - RJ45 coupler housing: UL94V-0 compliant ABS or PPS
 - Contacts: Copper alloy, gold plated
 - Hardware: Stainless steel/passivated

All external dimensions, features, etc. compliant with D38999/20, /24, &/26. Consult factory for additional information.



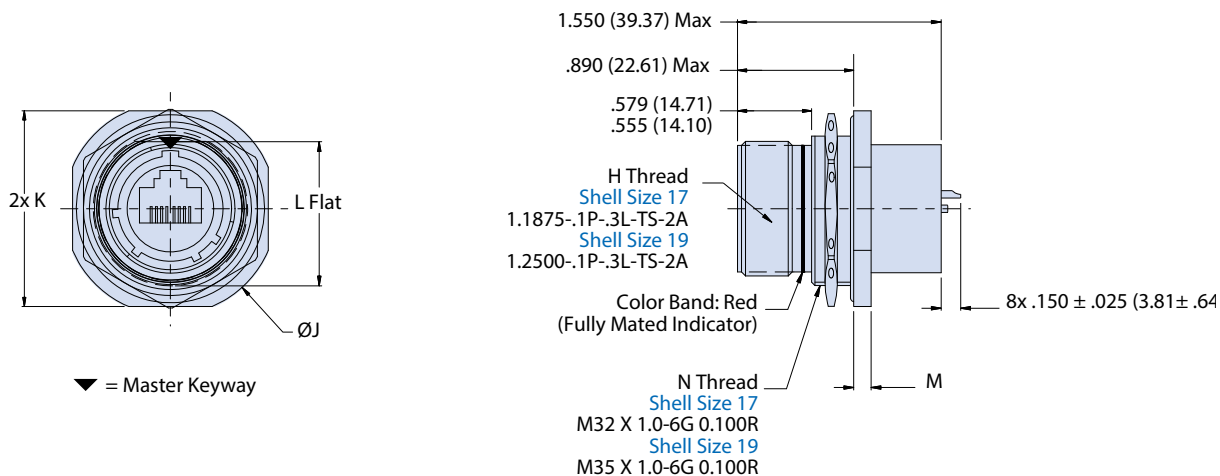
RJ45 CAT 5E ETHERNET

MIL-DTL-38999 Series III Type Connectors



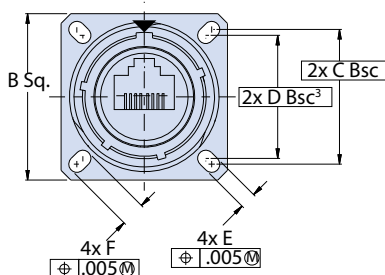
233-303 Receptacle with solder cups

07 - REAR PANEL MOUNT, JAM NUT RECEPTACLE

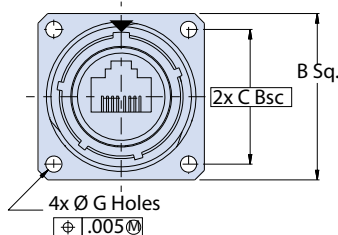


00, D0 AND CM - WALL MOUNT RECEPTACLES

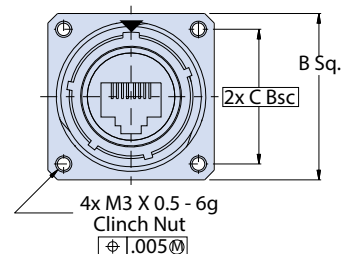
00 - Wall Mount Receptacle
with Slotted Holes (Mating Face)



D0 - Wall Mount Receptacle
with Round Holes (Mating Face)

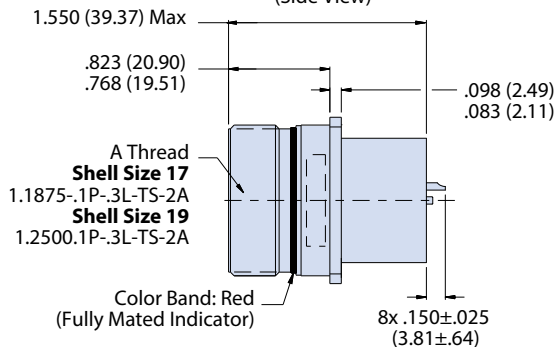


CM - Wall Mount Receptacle
with Metric Clinch Nuts (Mating Face)

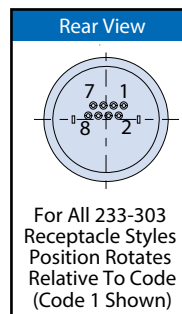
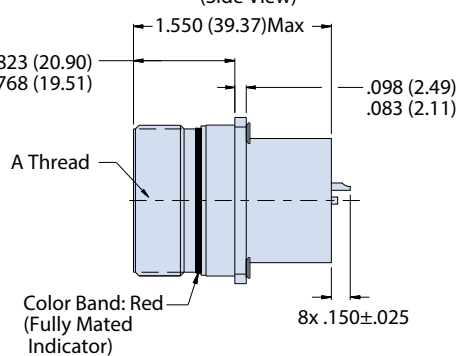


▼ = Master Keyway

00 and D0 - Wall Mount Receptacle
(Side View)



00 and D0 - Wall Mount Receptacle
(Side View)





RJ45 CAT 5E ETHERNET

MIL-DTL-38999 Series III Type Connectors



233-304 Plug and receptacle adapter
with accessory thread

B

Part Number Development										
Sample Part Number	233-304	NF	00	17	G	35	P	5H	N	T
Basic Number	233-304									
Finish	See Material and Finish table									
Connector Style ¹	See Connector Style table									
Shell Size	17 ⁶ consult factory for other shell sizes									
Insert-to-Shell Grounding ²	– = Inline shielded RJ45 insert G = Shielded and grounded to shell									
Insert Arrangement	Per MIL-STD-1560; 17-26 or 17-35 ⁶									
Contact Style	P = Pin S = Socket									
RJ45 Category	5H = CAT 5e For Cat 6A applications consult factory									
Alternate Key Position ¹	Per MIL-DTL-38999 A, B, C, D, E, N = Normal									
Shrink Boot	T = Part No. 770-028 (Omit for None)									

NOTES

1. See Section A for alternate key/keyway positions and panel cutout dimensions
2. G option is inline shielded and grounded to shell, available for receptacle only
3. Connector style 00 with slotted hole is front panel mount only
4. Meets IP67 in unmated condition, IP68 mated
5. Both plug and receptacle connectors have rear RJ45 jack
6. Consult factory for alternate insert arrangements

Material and Finish	
NF	Aluminum/Cadmium Olive Drab
ME	Aluminum/Electroless Nickel
MT	Aluminum/Nickel PTFE
ZR	Aluminum/Black Zinc-Nickel

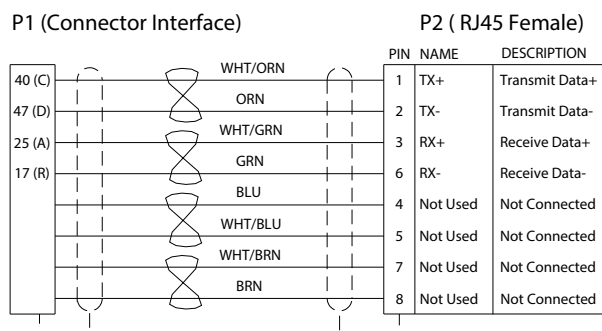
Connector Style ¹	
00	Wall mount receptacle with slotted holes ³
05	Inline Receptacle
07	rear panel mount, jam nut receptacle
D0	Wall mount receptacle with round holes
G6	plug
CM	Wall mount receptacle with metric clinch nuts

Thread Dimensions			
Shell Size	A Thread	G Thread	N Thread
17	1.1875-.1P-.3L-TS-2A	M25 x 1.0-6g 0.100R	M32 x 1.0-6g 0.100R
19	1.2500-.1P-.3L-TS-2A	M28 x 1.0-6g 0.100R	M35 x 1.0-6g 0.100R

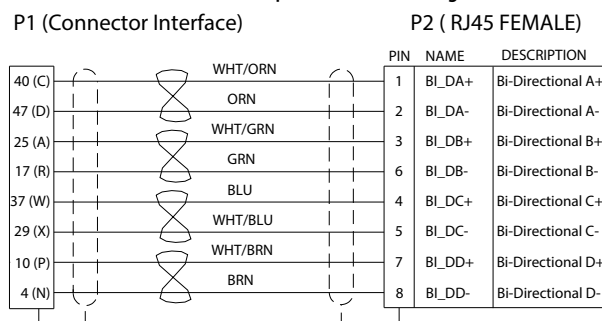
Wall Mount Receptacle Dimensions												
Shell Size	B Sq		C BSC		D BSC		E		F		Ø H Holes	
	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm
17	1.323	33.60	1.062	26.97	.969	24.61	.136	3.45	.202	5.13	.136	3.45
	1.299	32.99										
19	1.449	36.80	1.156	29.36	1.062	26.97	.120	3.05	.186	4.72	.120	3.05
	1.425	36.20										

Jam Nut and Inline Dimensions										
Shell Size	Ø K		L		M Flat		R		S	
	In	mm	In	mm	In	mm	In	mm	In	mm
17	1.764	44.81	1.642	41.71	1.191	30.25	.122	3.10	1.406	35.71
	1.740	44.20	1.610	40.89	1.181	30.00	.083	2.11		
19	1.949	49.50	1.827	46.41	1.316	33.43	.153	3.89	1.516	38.51
	1.925	48.90	1.795	45.59	1.306	33.17	.114	2.90		

Wiring Diagram for Ethernet 10base-T & 100 Base-TX 17-35 or (17-26 in parenthesis) Arrangement



Wiring Diagram for Ethernet 1000base-T (Gigabit Ethernet) 17-35 or (17-26 in parenthesis) Arrangement



Color Codes Per EIA/TIA 568B



RJ45 CAT 5E ETHERNET

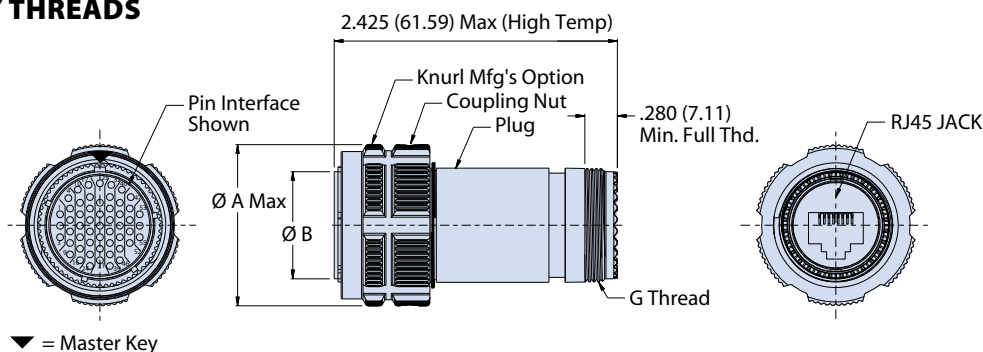
MIL-DTL-38999 Series III Type Connectors



233-304 Plug and receptacle adapter
with accessory thread

G6 - PLUG WITH ACCESSORY THREADS

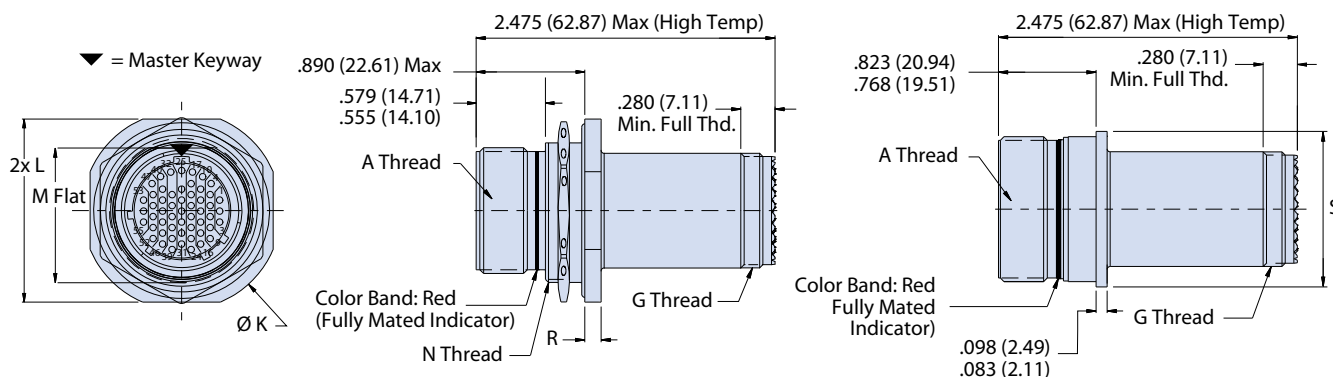
Plug Dimensions				
Shell Size	Ø A		Ø B	
	in	mm	in	mm
17	1.406	35.71	.928	23.57
			.922	23.42
19	1.516	38.51	1.033	26.24
			1.027	26.09



07 - REAR PANEL MOUNT, JAM NUT AND 05 - INLINE RECEPTACLE WITH ACCESSORY THREADS

Jam Nut Receptacle

Inline Receptacle
(side view only)

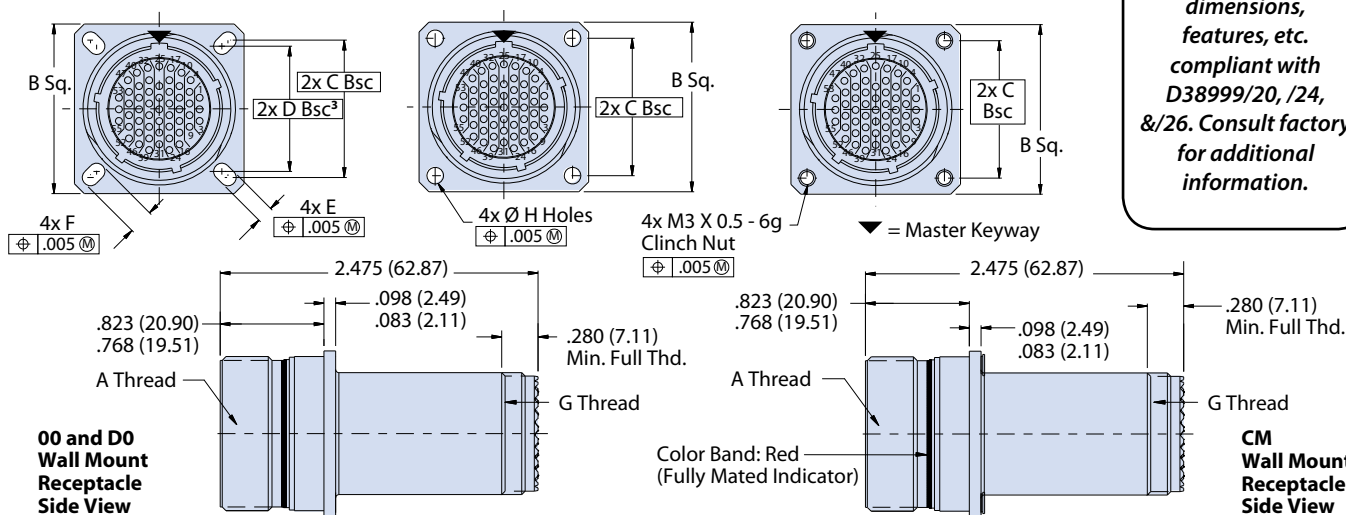


00, D0 AND CM - WALL MOUNT RECEPTACLES WITH ACCESSORY THREADS

00 - Wall Mount Receptacle
with Slotted Holes (Mating Face)

D0 - Wall Mount Receptacle
With Round Holes (Mating Face)

CM - Wall Mount Receptacle
With Metric Clinch Nuts (Mating Face)



All external dimensions, features, etc. compliant with D38999/20, /24, &/26. Consult factory for additional information.



RJ45 CAT 5E ETHERNET

MIL-DTL-38999 Series III Type Connectors



233-305 Quadrax interface adapter
with accessory threads

Receptacle
front View

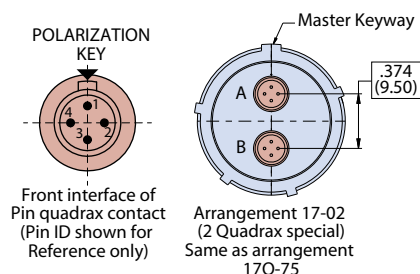


Receptacle
rear View



B

Partial View Of Connector Quadrax Interface



Material and Finish	
NF	Aluminum/Cadmium, Olive Drab
ME	Aluminum/Electroless Nickel
MT	Aluminum/Nickel PTFE
ZR	Aluminum/Black Zinc-Nickel

Connector Style	
05	Inline Receptacle
07	rear panel mount, jam nut receptacle
00	Wall mount receptacle with slotted holes
D0	Wall mount receptacle with round holes
CM	Wall mount receptacle with metric clinch nuts
G6	plug

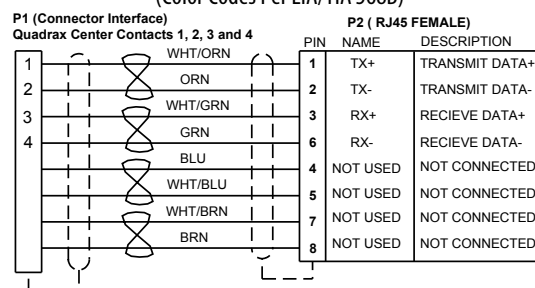
Jam Nut Dimensions					
Shell Size	Ø K	L	M Flat	R	Ø S
17	1.764 (44.81)	1.642 (41.71)	1.191 (30.25)	.122 (3.10)	1.275 (32.39)
	1.740 (44.20)	1.610 (40.89)	1.181 (30.00)	.083 (2.11)	
19	1.949 (49.50)	1.827 (46.41)	1.316 (33.43)	.153 (3.89)	1.337 (33.96)
	1.925 (48.90)	1.795 (45.59)	1.306 (33.17)	.114 (2.90)	

Part Number Development									
Sample Part Number	233-305	NF	00	-	17	5H	P	N	T
Basic Number	233-305								
Finish	See Material and Finish table								
Connector Style	See Connector Style table								
Insert-to-Shell Grounding²	- = Inline shielded RJ45 insert G = Shielded and grounded to shell								
Shell Size	17 or 19								
RJ45 Category	5H = CAT 5e For Cat 6A applications consult factory								
Contact Style	P = Pin S = Socket								
Alternate Key Position¹	A, B, C, D, E, N = Normal; Per MIL-DTL-38999								
Shrink Boot	T = Part No. 770-028 (Omit for None)								

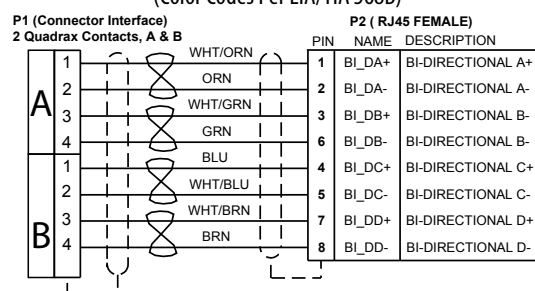
NOTES

- See Section A for alternate key/keyway positions and panel cutout dimensions
- G option is inline shielded and grounded to shell, available for receptacle only
- Pin contact mates with P/N 854-002 Socket contact mates with P/N 854-001
- Connector style 00 with slotted hole is front panel mount only
- Meets IP67 in unmated condition, IP68 mated
- Both plug and receptacle connectors have rear RJ45 jack

Wiring Diagram for Ethernet 10base-T & 100 Base-TX (Color Codes Per EIA/TIA 568B)



Wiring Diagram for Ethernet 1000base-T (Gigabit Ethernet) (Color Codes Per EIA/TIA 568B)



Thread Dimensions			
Shell Size	A Thread	G Thread	N Thread
17	1.1875-.1P-.3L-TS-2A	M25 x 1.0-6g 0.100R	M32 x 1.0-6g 0.100R
19	1.2500-.1P-.3L-TS-2A	M28x 1.0-6g 0.100R	M35 x 1.0-6g 0.100R

Wall Mount Receptacle Dimensions						
Shell Size	B Sq	C BSC	D BSC	E	F	Ø H Holes
17	1.323 (33.60)	1.062 (26.97)	.969 (24.61)	.136 (3.45)	.202 (5.13)	.136 (3.45)
	1.299 (32.99)					
19	1.449 (36.80)	1.156 (29.36)	1.062 (26.97)	.120 (3.05)	.186 (4.72)	.120 (3.05)
	1.425 (36.20)					



RJ45 CAT 5E ETHERNET

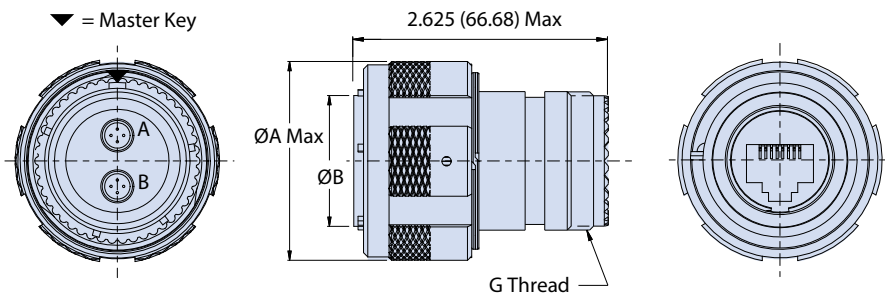
MIL-DTL-38999 Series III Type Connectors



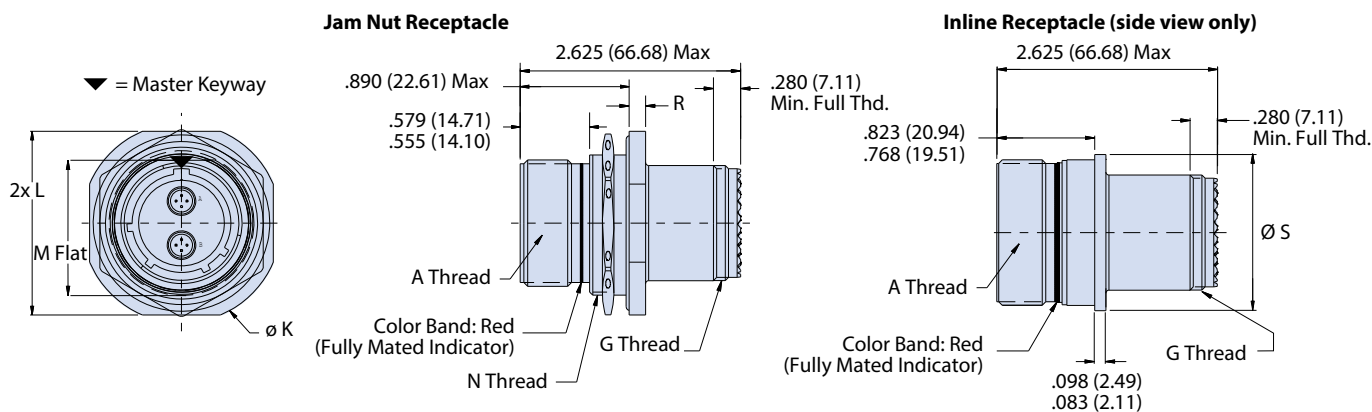
233-305 Quadrax interface adapter
with accessory threads

G6 - PLUG WITH ACCESSORY THREADS

Plug Dimensions				
Shell Size	Ø A		Ø B	
	in	mm	in	mm
17	1.406	35.71	.928 .922	23.57 23.42
19	1.516	38.51	1.033 1.027	26.24 26.09

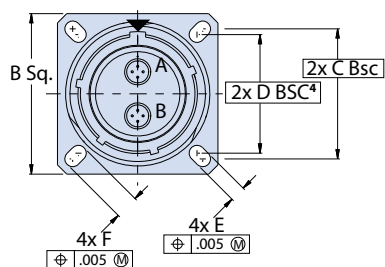


07 - REAR PANEL MOUNT, JAM NUT AND 05 - INLINE RECEPTACLE WITH ACCESSORY THREADS

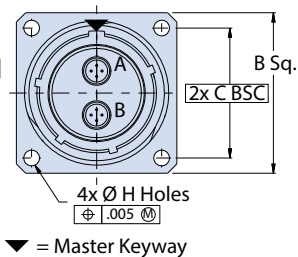


00, D0 AND CM - WALL MOUNT RECEPTACLES WITH ACCESSORY THREADS

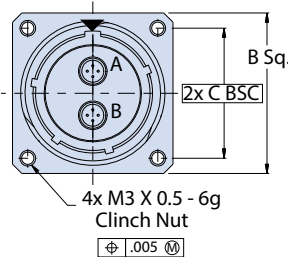
00 - Wall Mount Receptacle with Slotted Holes (Mating Face)



D0 - Wall Mount Receptacle With Round Holes (Mating Face)

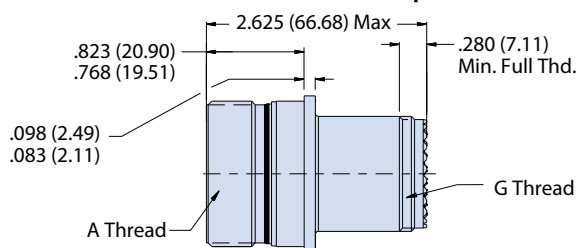


CM - Wall Mount Receptacle With Metric Clinch Nuts (Mating Face)

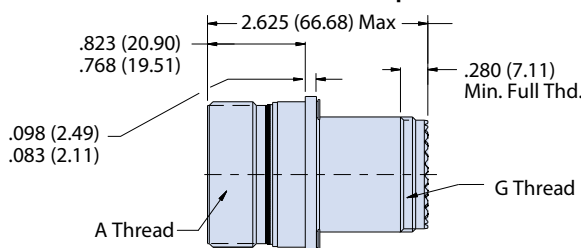


All external dimensions, features, etc. compliant with D38999/20, /24, &/26. Consult factory for additional information.

00 and D0 - Wall Mount Receptacle



CM - Wall Mount Receptacle



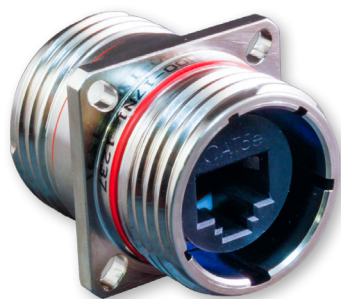


RJ45 CAT 5E/6A ETHERNET

MIL-DTL-38999 Series III Type Connectors



233-330 Feed-through receptacle connector



Receptacle front View

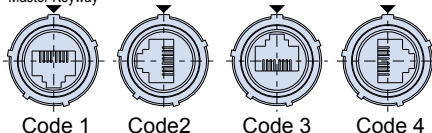
Part Number Development							
Sample Part Number	233-330	NF	00	-17	5H	N	1
Basic Number	233-330						
Finish	See Material and Finish table						
Connector Style ¹	See Connector Style table						
Shell Size	17 or 19						
RJ45 Category	5H = CAT 5e 6A = CAT 6A						
Alternate Key Position ¹	Per MIL-DTL-38999 A, B, C, D, E, N = Normal						
RJ45 Orientation	1, 2, 3, or 4						

Material and Finish	
NF	Aluminum/Cadmium Olive Drab
ME	Aluminum/Electroless Nickel
MT	Aluminum/Nickel PTFE
ZR	Aluminum/Black Zinc-Nickel

Connector Style ¹	
00	Wall mount receptacle with slotted hole ²
07	Jam nut, rear panel mount receptacle
D0	Wall mount receptacle with round holes
CM	Wall mount receptacle with metric clinch nuts

RJ45 Orientation Options (Receptacle Face)

Master Keyway



Jam Nut Dimensions								
Shell Size	Ø K		L		M Flat		R	
	in	mm	in	mm	in	mm	in	mm
17	1.764	44.81	1.642	41.71	1.191	30.25	.122	3.10
	1.740	44.20	1.610	40.89	1.181	30.00	.083	2.11
19	1.949	49.50	1.827	46.41	1.316	33.43	.153	3.89
	1.925	48.90	1.795	45.59	1.306	33.17	.114	2.90

Wall Mount Receptacle Dimensions												
Shell Size	B Sq		C Bsc		D Bsc ²		E		F		Ø H Holes	
	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm
17	1.323	33.60	1.062	26.97	.969	24.61	.136	3.45	.202	5.13	0.136	3.45
	1.299	32.99					.120	3.05	.186	4.72	0.120	3.05
19	1.449	36.80	1.156	29.36	1.062	26.97						
	1.425	36.20										

NOTES

1. See Section A for alternate key/keyway positions and panel cutout dimensions
2. front panel mount only
3. Meets IP67 in unmated condition, IP68 mated
4. Feed-thru receptacle is jack-to-jack configuration

All external dimensions, features, etc. compliant with D38999/20, /24, &/26. Consult factory for additional information.



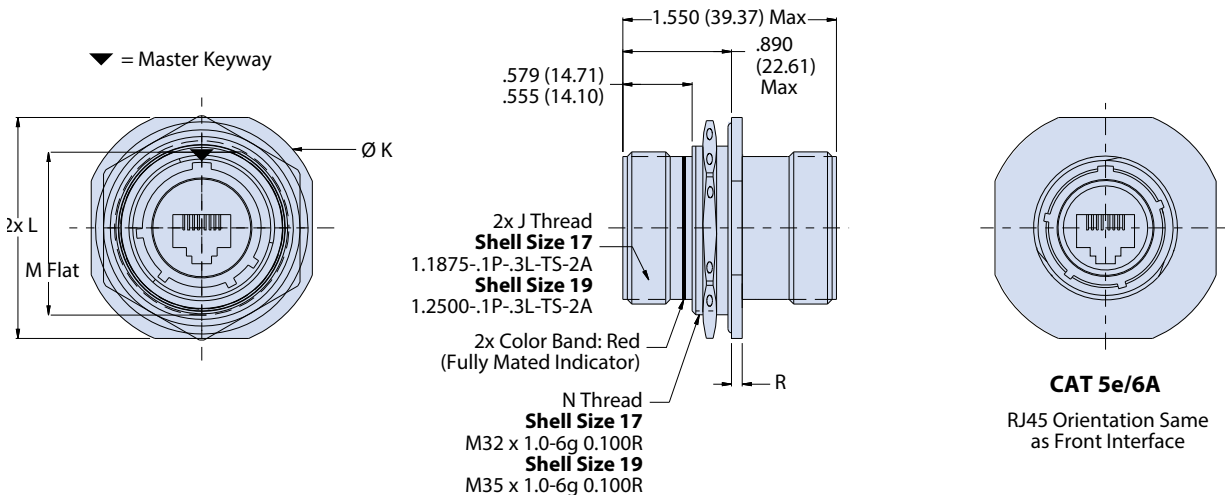
RJ45 CAT 5E/6A ETHERNET

MIL-DTL-38999 Series III Type Connectors



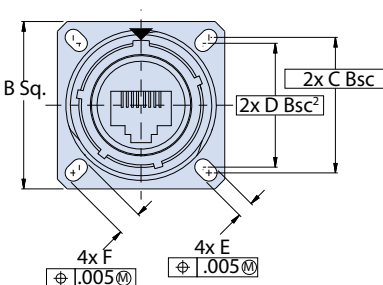
233-330 Feed-through receptacle connector

07 - REAR PANEL MOUNT, JAM NUT FEED-THROUGH RECEPTACLE

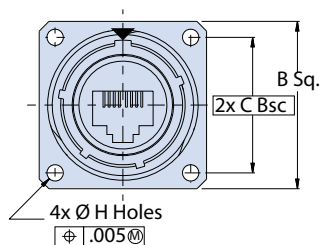


00, D0 AND CM - WALL MOUNT FEED-THRU RECEPTACLES

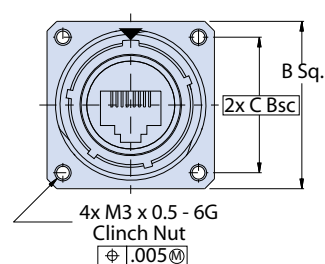
00 - Wall Mount Receptacle with Slotted Holes (Mating Face)



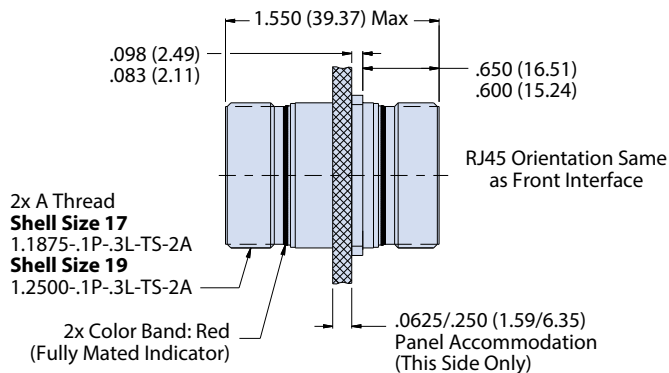
D0 - Wall Mount Receptacle with Round Holes (Mating Face)



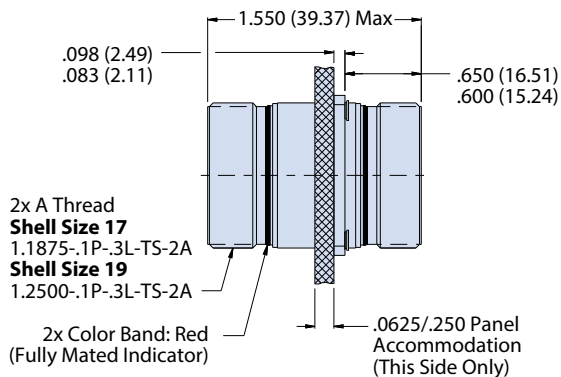
CM - Wall Mount Receptacle With Metric Clinch Nuts (Mating Face)



00, D0, CM - Wall Mount Receptacle



CM - Wall Mount Receptacle





RJ45 CAT 5E ETHERNET

MIL-DTL-38999 Series III Type Connectors



CAT 5e cable assemblies

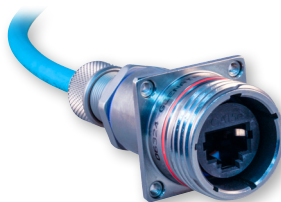
2330-0003 Glenair SuperNine RJ45 CAT 5e cable jumpers, SuperSeal to standard RJ45

SuperSeal RJ45 connectors are IP67 open face rated and IP68 in the mated condition for complete protection in harsh environments. SuperSeal connector styles include plug, wall mount and jam-nut receptacles. Wall mount receptacles are available with slotted holes, round holes and metric clinch nuts. All SuperSeal shells offer inline shielding and receptacle shells offer optional shell grounding. Any shell can be ordered with straight or right angle cable exit. RJ45 jack can be ordered in 1 of 4 available orientations to provide further security against mis-mating and accommodate existing RJ45 orientations. RJ45 connector end may be ordered as plug, jack or with flying leads in straight or right angle configurations. Maximum overall length is 100 feet. Consult factory for ordering information.

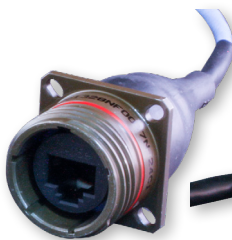
AVAILABLE INTERFACE OPTIONS



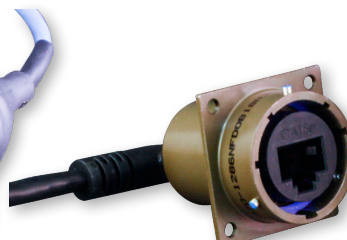
Plug



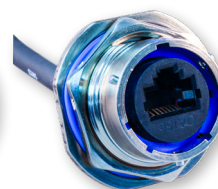
Wall mount
receptacle with
metric clinch nuts



Wall Mount
Receptacle with
round holes

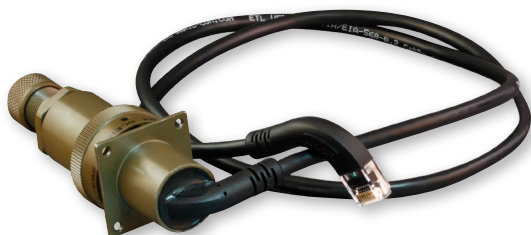


Wall Mount
Receptacle with
round holes



Jam-nut mount
Receptacle

CAT 5E PLUG OPTIONS



CAT 5e, Straight

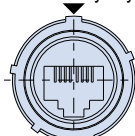


CAT 5e, 45°

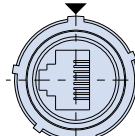
RJ45 ORIENTATION OPTIONS



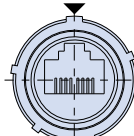
Master Keyway



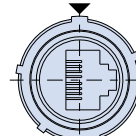
Code 1



Code 2



Code 3



Code 4



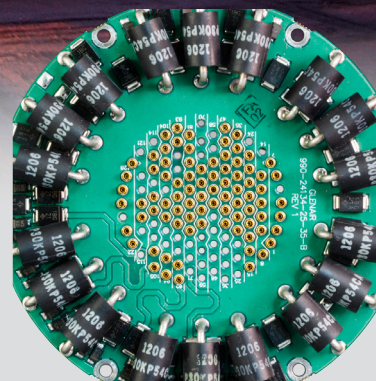
MIL-DTL-38999 TYPE
TVS FIELD-READY
RJ45 ETHERNET

FILTER
EMI EMP
CONNECTORS

SUPERSEAL™

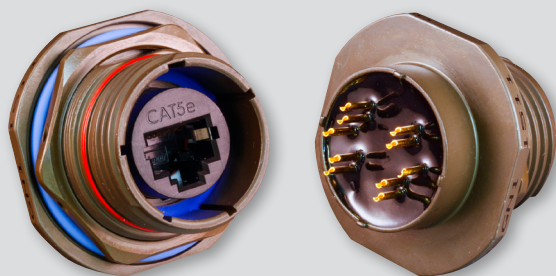
Transient Voltage Suppression (TVS) RJ45 Connectors

Transient Voltage Suppression (TVS) technologies are designed to shunt voltage transients directly to ground before such surges can damage sensitive electronic equipment. Individual TVS diodes as well as diode modules are incorporated directly into the TVS filter connector package to provide optimal protection for either individual contacts or groups of contacts without significant increases in connector size or weight. RTCA DO-160 and other electrical performance standards define acceptable benchmarks for withstanding electromagnetic pulse, lightning strike, or other induced voltage surges in high-reliability systems. For high-speed signals, care must be taken in selecting diodes to minimize capacitance loading effects which can lead to signal loss. Glenair SuperSeal™ TVS-equipped RJ45 connectors have been engineered to transmit high-speed signals while providing indirect lightning strike protection in accordance with the RTCA DO-160 standard.



***Prevents Catastrophic
EMP Failure in
Military and
Commercial Aircraft***

- **Electromagnetic pulse (EMP) protection**
- **Lightning protection**
- **Saves weight and space**
- **Superior performance**
- **D38999 Series III type**
- **SuperSeal™ signature sealing and grounding**



MIL-DTL-38999 type
Series III SuperNine
RJ45 receptacles
with transient
voltage suppression
technology



RJ45 CAT 5E ETHERNET RJ45 CAT 5e TVS connectors



TVS diode performance specifications and power selection

B

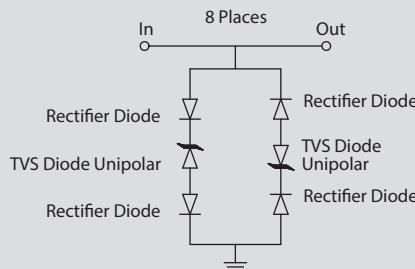
MIL-DTL-38999 Series III, TVS Diode, RJ45 CAT 5e and 6A Performance Specifications	
Material and Finish	
Shell/coupling Plating	Complete list of options available in the Material and Finish Options portion of this section
Contacts	PC tails or solder cup: copper alloy, gold plated
RJ45 coupler housing	UL94V-0 compliant ABS or PPS
Seals	Fluorosilicone
Shell Sizes	17 and 19
Environmental / Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Outgassing	Mod Code 186S* Mod Code 928**
Operating Temperature	-20°C to +85°C
Vibration	20g's, 3 Axis, 10 - 2000Hz
Mechanical Shock	300 g's
Backshell Interface	MIL-DTL-38999 Designator H
Mating Cycles	500

* Meets outgassing requirements per ASTM E 595 and meets NASA screening requirements for level 1 highest reliability

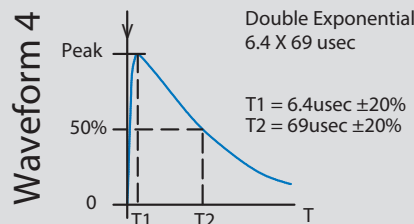
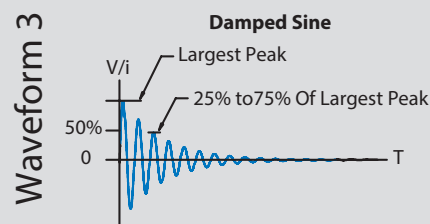
** Meets outgassing requirements per UL 94 V-0

MIL-DTL-38999 Series III, TVS Diode, RJ45 CAT 5e and 6A Performance Specifications	
RJ45 Cat 6A & 5e Electrical Specifications	
Voltage Rating	1000 Volts, Cat 5e
Data Rate	10BASE-T, 100BASE-TX, 1000BASE-T/1000BASE-TX
Current Rating	1.5 Amps, Cat 5e
D.W.V.	1000 VDC (700 VAC)
Frequency	100 MHz, Cat 5e
Wiring	Straight through
Cabling Length	100 Meters Max
Shield Continuity	Continuous Through Coupler and Grounded to the Shell

FIGURE 1



RTCA DO-160 Indirect Lightning Waveset A Waveforms		
RTCA DO-160 Waveform	Level	Open Circuit Voltage/Short Circuit Voltage V/A
Waveform 3	1	100/4
	2	250/10
Waveform 4	1	50/10
	2	125/25



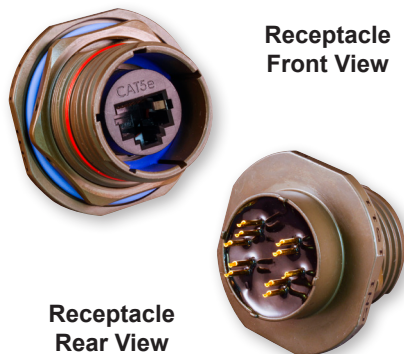
MIL-DTL-38999 Series III, TVS Diode, RJ45 CAT 5e and 6A Performance Specifications	
TVS Electrical Specifications	
Each signal line has TVS diode protection per the electrical schematic in figure 1.	
Peak pulse power (tp = 8/20us)	600w
Rated standoff voltage	2.8V
Minimum breakdown voltage	3.0V @ 1mA
Max clamping voltage (@ Ipp = 2A)	5.5V
Max clamping voltage (@ Ipp = 5A)	8.5V
Max clamping voltage (@ Ipp = 30A)	21.0V
Max leakage current	2.0uA max @ 2.8V
Typical junction capacitance	10pF @ 0v, 1Mhz
Polarity	bipolar
Compatible with IEC 61000-4-2 (ESD)	air - 15kv, contact - 8kv
Compatible with IEC 61000-4-4 (EFT)	40A - 5/50ns
Compatible with IEC 61000-4-5 (surge)	24A, 8/20us - level 2 (line-gnd) & level 3 (line-line)
Meets indirect lightning strike requirements per DO-160, section 222 pin injection waveform set A2.	



RJ45 CAT 5E ETHERNET RJ45 CAT 5e TVS connectors



244-001 Jam-nut receptacle, PC tail or solder cup
MIL-DTL-38999 Series III Type Connectors



Receptacle
Front View

Receptacle
Rear View

Material and Finish	
NF	Aluminum/Cadmium Olive Drab
ME	Aluminum/Electroless Nickel
MT	Aluminum/Nickel PTFE
ZR	Aluminum/Black Zinc-Nickel

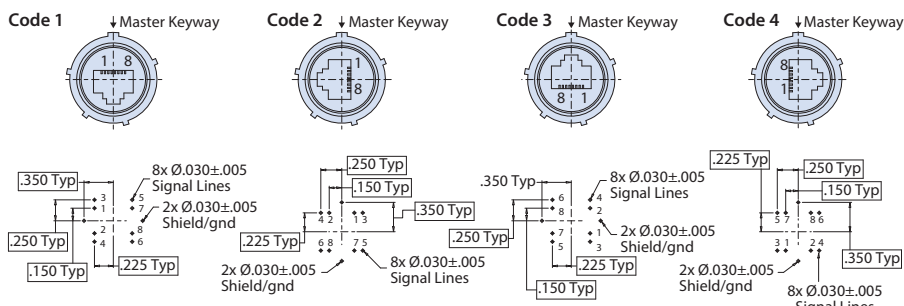
Part Number Development						
Sample Part Number	244-001	NF	19	P	G	N 1
Basic Number	244-001 with stand-offs					
Finish	See Material and Finish Table					
Shell Size	17 or 19					
Termination	P = PC tail S = Solder cup					
Insert-to-Shell Grounding	G = Shielded and grounded to shell					
Alternate Key Position ¹	Per MIL-DTL-38999 A, B, C, D, E, N = Normal ²					
RJ45 Orientation	1, 2, 3, or 4					

NOTES

- See Section A for alternate key/keyway positions and panel cutout dimensions
- See page B-24 for diode values

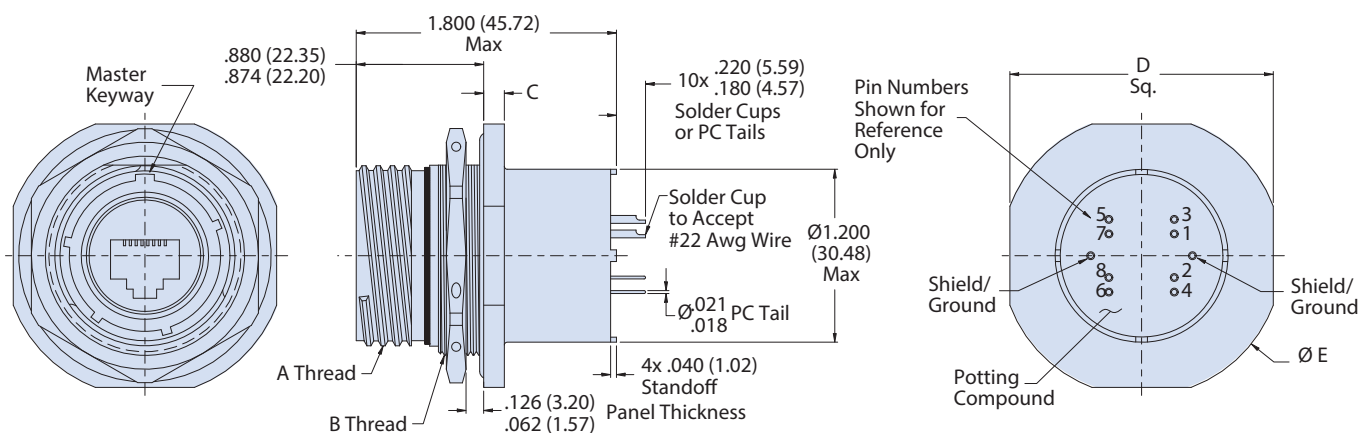
All external dimensions, features, etc.
compliant with D38999/20, /24, &/26.
Consult factory for additional information.

RJ45 ORIENTATION CODE AND PCB LAYOUT (PCB LAYOUT FOR PC TAIL VERSION)



Component Mounting Side

Jam Nut Dimensions												
Shell Size	A Thread	B Thread	C		D Sq.		Ø E		Ø F		G Flat	
			in	mm	in	mm	in	mm	in	mm	in	mm
17	1.1875-.1P-.3L-TS-2A	M32 x 1.0-6g 0.100R	.122 .083	3.10 2.11	1.642 1.610	41.71 40.89	1.764 1.740	44.81 44.20	1.270 1.260	32.56 32.00	1.210 1.200	30.73 30.48
19	1.2500-.1P-.3L-TS-2A	M35 x 1.0-6g 0.100R	.154 .114	3.91 2.90	1.827 1.795	46.41 45.59	1.949 1.925	49.50 48.90	1.395 1.385	35.43 35.18	1.335 1.325	33.91 33.66





RJ45 CAT 5E ETHERNET

RJ45 CAT 5e TVS connectors



244-002 Wall mount receptacle, PC tail or solder cup
MIL-DTL-38999 Series III Type Connectors



Material and Finish¹

NF	Aluminum/Cadmium Olive Drab
ME	Aluminum/Electroless Nickel
MT	Aluminum/Nickel PTFE
ZR	Aluminum/Black Zinc-Nickel

NOTES

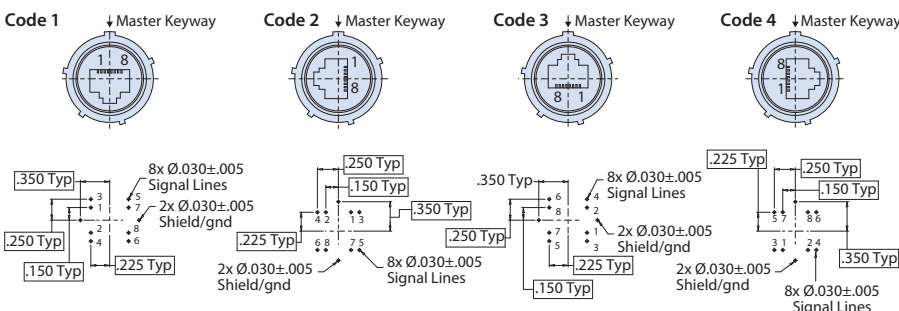
- See Section A for alternate key/keyway positions and panel cutout dimensions
- See page B-24 for diode values

*All external dimensions, features, etc.
compliant with D38999/20, /24, & /26.
Consult factory for additional information.*

Part Number Development

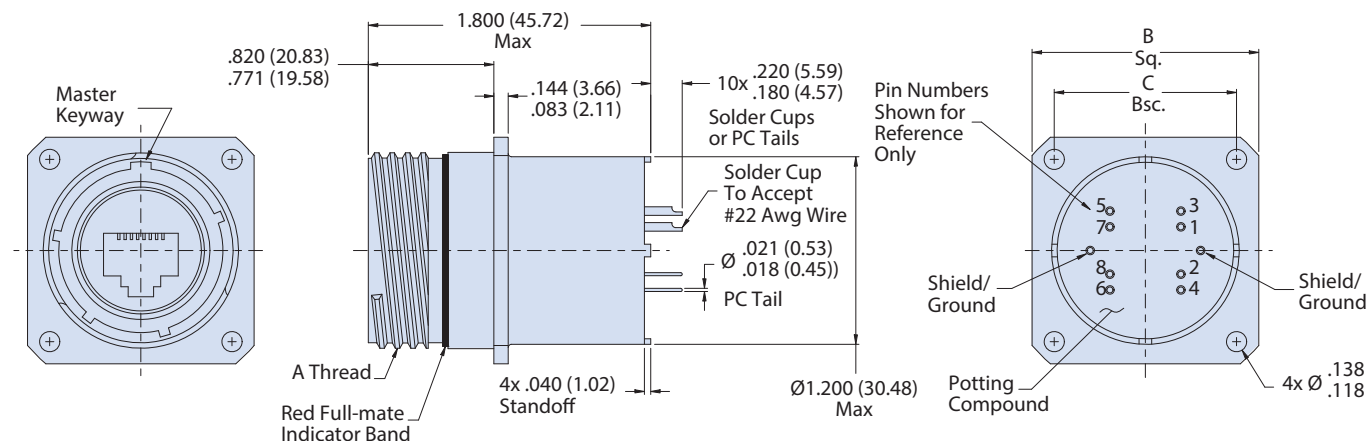
Sample Part Number	244-002	NF	19	P	G	N	1
Basic Number	244-002 with stand-offs						
Finish	See Material and Finish Table						
Shell Size	17 or 19						
Termination	P = PC tail S = Solder cup						
Insert-to-Shell Grounding	G = Shielded and grounded to shell						
Alternate Key Position ¹	Per MIL-DTL-38999 A, B, C, D, E, N = Normal						
RJ45 Orientation	1, 2, 3, or 4						

RJ45 ORIENTATION CODE AND PCB LAYOUT (PCB LAYOUT FOR PC TAIL VERSION)



Component Mounting Side

Jam Nut Dimensions									
Shell Size	A Thread	B Sq.		C Bsc		$\varnothing$ D Min.		E Bsc	
		in	mm	in	mm	in	mm	in	mm
17	1.1875-.1P-.3L-TS-2A	1.323 1.299	33.60 32.99	1.062	26.97	1.219	30.96	1.062	26.97
19	1.2500-.1P-.3L-TS-2A	1.449 1.425	36.80 36.195	1.156	29.36	1.297	32.94	1.156	29.36





RJ45 CAT 5E ETHERNET RJ45 CAT 5e TVS connectors



244-003 Wall mount receptacle, PC tail or solder cup
MIL-DTL-38999 Series III Type Connectors



Material and Finish	
NF	Aluminum/Cadmium Olive Drab
ME	Aluminum/Electroless Nickel
MT	Aluminum/Nickel PTFE
ZR	Aluminum/Black Zinc-Nickel

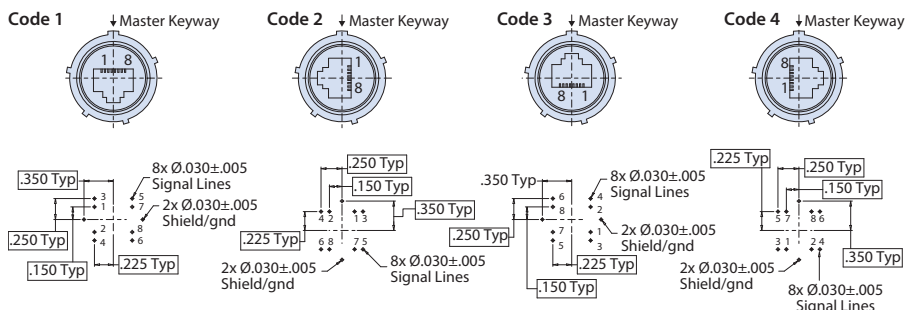
Part Number Development							
Sample Part Number	244-003	NF	19	P	G	N	1
Basic Number	244-003 with accessory thread						
Finish	See Material and Finish Table						
Shell Size	17 or 19						
Termination	P = PC tail S = Solder cup						
Insert-to-Shell Grounding	G = Shielded and grounded to shell						
Alternate Key Position ¹	Per MIL-DTL-38999 A, B, C, D, E, N = Normal						
RJ45 Orientation	1, 2, 3, or 4						

NOTES

- See Section A for alternate key/keyway positions and panel cutout dimensions
- See page B-24 for diode values

All external dimensions, features, etc. compliant with D38999/20, /24, &/26. Consult factory for additional information.

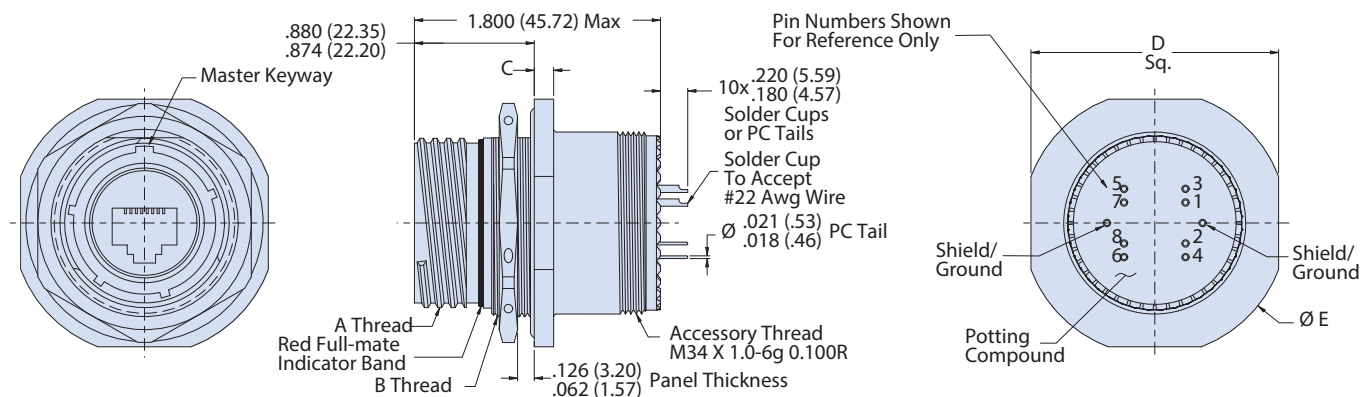
RJ45 ORIENTATION CODE AND PCB LAYOUT (PCB LAYOUT FOR PC TAIL VERSION)



Component Mounting Side

Jam Nut Dimensions												
Shell Size	A Thread	B Thread	C		D Sq.		Ø E		Ø F		G Flat	
			in	mm	in	mm	in	mm				
17	1.1875-.1P-.3L-TS-2A	M32 x 1.0-6g 0.100R	.122 .083	3.10 2.11	1.642 1.610	41.71 40.89	1.764 1.740	44.81 44.17	1.270 1.260	32.26 32.00	1.210 1.200	30.73 30.48
19	1.2500-.1P-.3L-TS-2A	M35 x 1.0-6g 0.100R	.154 .114	3.91 2.90	1.827 1.795	46.41 45.59	1.949 1.925	49.50 48.90	1.395 1.385	35.43 35.18	1.35 1.325	33.91 33.66

JAM-NUT RECEPTACLE WITH ACCESSORY THREADS





RJ45 CAT 5E ETHERNET RJ45 CAT 5e TVS connectors



244-004 Wall mount receptacle, PC tail or solder cup
MIL-DTL-38999 Series III Type Connectors



Material and Finish

NF	Aluminum/Cadmium Olive Drab
ME	Aluminum/Electroless Nickel
MT	Aluminum/Nickel PTFE
ZR	Aluminum/Black Zinc-Nickel

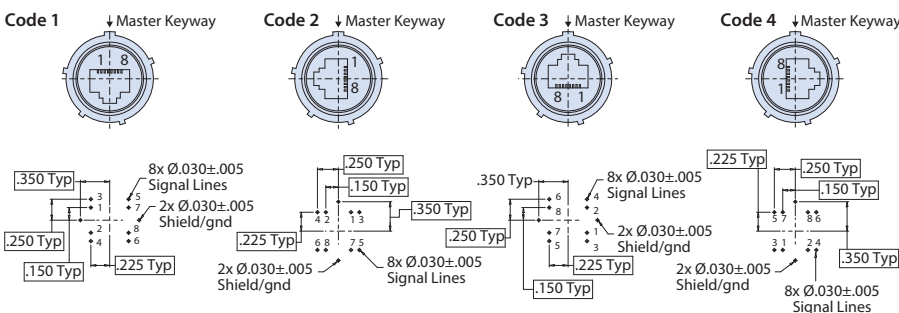
NOTES

- See Section A for alternate key/keyway positions and panel cutout dimensions
- See page B-24 for diode values

*All external dimensions, features, etc.
compliant with D38999/20, /24, & /26.
Consult factory for additional information.*

Part Number Development						
Sample Part Number	244-004	NF	19	P	G	N 1
Basic Number	244-004 with accessory thread					
Finish	See Material and Finish Table					
Shell Size	17 or 19					
Termination	P = PC tail S = Solder cup					
Insert-to-Shell Grounding	G = Shielded and grounded to shell					
Alternate Key Position	Per MIL-DTL-38999 A, B, C, D, E, N = Normal					
RJ45 Orientation	1, 2, 3, or 4					

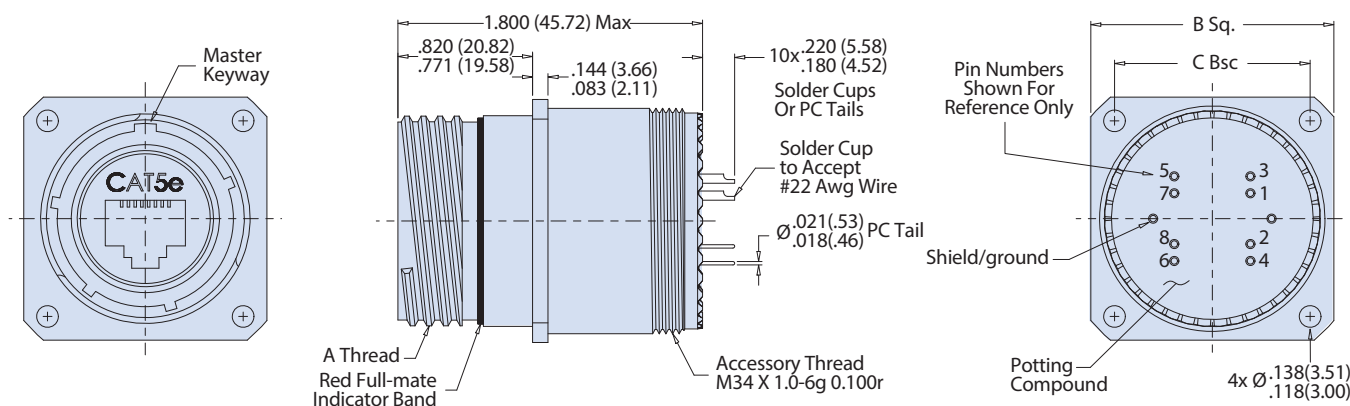
RJ45 ORIENTATION CODE AND PCB LAYOUT (PCB LAYOUT FOR PC TAIL VERSION)



Component Mounting Side

Jam Nut Dimensions									
Shell Size	A Thread	B Sq.		C Bsc		Ø D Min		E Bsc	
		in	mm	in	mm	in	mm	in	mm
17	1.1875-.1P-.3L-TS-2A	1.323 1.299	33.60 32.99	1.062	26.97	1.219	30.96	1.062	26.97
19	1.2500-.1P-.3L-TS-2A	1.449 1.425	36.80 36.195	1.156	29.36	1.297	32.94	1.156	29.36

REAR PANEL MOUNT RECEPTACLE WITH ACCESSORY THREADS



MIL-DTL-38999 TYPE
FIELD-READY
USB 2.0

SUPERSEAL™

Rugged environmental MIL-DTL-38999 type connectors with IP67 open-face sealing, robust insert-to-shell grounding, and a complete range of wire, cable, and circuit board terminations



SuperSeal™ USB 2.0 Advantages

- Superior sealing—IP67 open face and IP68 mated—for complete system protection against water, sand and dust
- Highly durable USB 2.0 design, including enhanced operating temperature, increased life-cycle, and rugged vibration and shock performance
- Shielded/grounded receptacle connectors
- Crimp, solder-cup, PC tail, contact/wire termination options
- Scoop-proof, self-locking, triple-start threaded coupling (MIL-DTL-38999 Series III type)



Glenair, Inc.
1211 Air Way
Glendale, CA 91201-2497
818-247-6000
sales@glenair.com
www.glenair.com



USB 2.0 TYPE A CONNECTORS

MIL-DTL-38999 Series III Type Connectors



Product Selection Guide

 233-340 C-4 SuperSeal™ Coupler with Accessory Threads and USB 2.0/3.0 Male-to-Female (Plug) or Female-to-Female Receptacle	 233-345 C-14 SuperSeal Connectors with Accessory Threads and USB 2.0 Male (Plug) or Female (Receptacle) Interface to Crimp Removable Contacts
 233-341 C-6 SuperSeal Receptacle with crimp removable contacts. USB 2.0 Female Interface to PC Tail Termination	 233-370 C-16 SuperSeal Feed-thru Receptacle with USB 2.0 Female-to-Female Interface
 233-342 C-8 SuperSeal Receptacle with USB 2.0 Female Interface to PC Tail Termination	 233-390 C-18 SuperSeal USB 2.0 Memory Stick
 233-343 C-10 SuperSeal Receptacle with USB 2.0 Female Interface to Solder Cup Termination	 233-92 C-19 SuperSeal USB 3.0 Memory Stick
 233-344 C-12 SuperSeal Receptacle Adapter with Accessory Threads and Pin or Socket Contacts to USB 2.0 Female Interface	 Cable Assemblies E-20 SuperSeal USB 3.0 Cable Assemblies



SERIES 23

SuperSeal™

**USB 2.0 and 3.0
Ruggedized solutions**



SuperSeal is the SuperNine family of ruggedized connectors with for USB 2.0 and high-speed USB 3.0 commercial interfaces. Both versions are IP68 (mated) and IP67 (unmated) rated. This interface datalink solution provides outstanding performance for field applications such as dismounted soldier and other C4ISR missions. SuperSeal USB provides military grade connector performance including metal-to-metal grounding, polarization keying, and non-corrosive conductive material and finish options. The USB protocol allows simple plug-and-play connectivity and *hot-swappable* addition of external peripherals such as digitally-aided close air support technologies without restarting systems.

- **USB 2.0 and 3.0 versions available**
- **Superior sealing—IP67 unmated—for complete system protection against water, sand and dust**
- **Highly durable SuperSeal™ insert design, provides enhanced operating temperature, increased life-cycle, and rugged vibration and shock performance**
- **Crimp, solder-cup, PC tail and cable assemblies**



USB 2.0 TYPE A CONNECTORS

MIL-DTL-38999 Series III Type Connectors



USB 2.0 and 3.0 Performance Specifications

USB 2.0 Performance Specifications	
Property	Description

Material and Finish

Shell/Coupling and Plating	Aluminum, cad/o.d., electroless nickel, nickel PTFE, black zinc nickel
Contacts	PC tails, solder cup, and crimp contacts: copper alloy, gold plated
USB Insulator	LCP
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Shell Sizes	15 Consult factory for other shell size options

Electrical Specifications

Data Rate	480 MBps
Power Usage	500 milliamps (mA)
Current Rating	1.5 Amps,
D.W.V.	500 VAC
I.R.	1000 MegOhms
Cabling Length	5.0 Meters Max
Shielding	Continuous through coupler or continuous coupler to shell

Environmental/Mechanical Performance

Sealing	IP68 mated condition, IP67 unmated condition
Outgassing	Mod Code 186S meets outgassing requirements per ASTM E 595 and meets NASA level 3 screening for standard reliability Mod Code 928 meets outgassing requirements per UL 94 V-0
Operating Temperature	-40°C to +120°C
Vibration	20g's, 3 Axis, 10 - 2000Hz
Mechanical Shock	300 g's
Backshell Interface	MIL-DTL-38999 Designator H
Mating System	Triple-start stub ACME
Mating Cycles	500

USB 3.0 Performance Specifications	
Property	Description

Material and Finish

Shell/Coupling and Plating	Aluminum, cad/o.d., electroless nickel, nickel PTFE, black zinc nickel
Contacts	PC tails, solder cup, and crimp contacts: copper alloy, gold plated
USB Insulator	LCP
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Shell Sizes	15 Consult factory for other shell size options

Electrical Specifications

Data Rate	5.0 GBps
Power Usage	500 milliamps (mA)
Current Rating	1.5 Amps,
D.W.V.	500 VAC
I.R.	1000 MegOhms
Cabling Length	3.0 Meters Max
Shielding	Continuous through coupler or continuous coupler to shell

Environmental/Mechanical Performance

Sealing	IP68 mated condition, IP67 unmated condition
Outgassing	Mod Code 186S meets outgassing requirements per ASTM E 595 and meets NASA level 3 screening for standard reliability Mod Code 928 meets outgassing requirements per UL 94 V-0
Operating Temperature	-40°C to +120°C
Vibration	20g's, 3 Axis, 10 - 2000Hz
Mechanical Shock	300 g's
Backshell Interface	MIL-DTL-38999 Designator H
Mating System	Triple-start stub ACME
Mating Cycles	500



USB 2.0 TYPE A CONNECTORS

MIL-DTL-38999 Series III Type Connectors



233-340 Couplers with accessory threads



Plug
Front View



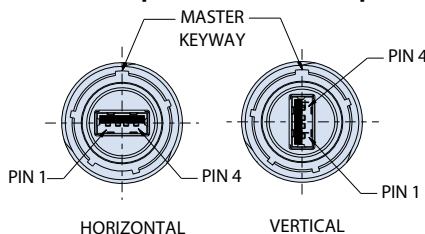
Square Flange
Receptacle
Front View



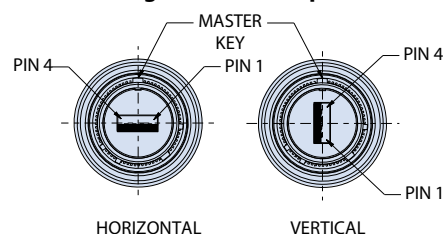
Jam Nut Receptacle
Front View

Part Number Development										
Sample Part Number	233-340	NF	00	-15	2	A	A	N	H	T
Basic Number	233-340									
Finish	See Material and Finish table									
Connector Style ¹	See Connector Style table									
Shell Size	15									
USB Performance	2 = USB 2.0									
USB Front Interface	A = Type A									
USB Back Interface	A = Type A									
Alternate Key Position ¹	A, B, C, D, E, N = Normal per MIL-DTL-38999									
USB Orientation	H = Horizontal V = Vertical									
Shrink Boot	T = Part No. 770-028 (Omit for None)									

USB Receptacle Orientation Options



USB Plug Orientation Options



Material and Finish

NF	Aluminum/Cadmium, Olive Drab
M	Aluminum/Electroless Nickel
MT	Aluminum/Nickel PTFE
ZR	Aluminum/Black Zinc-Nickel

All external dimensions, features, etc. compliant with D38999/20, /24, &/26. Consult factory for additional information.

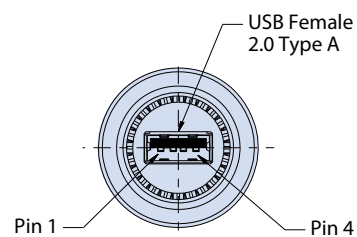
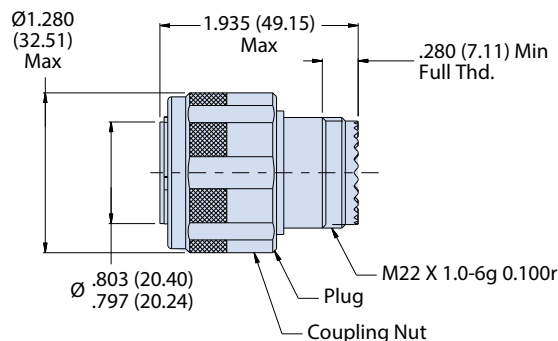
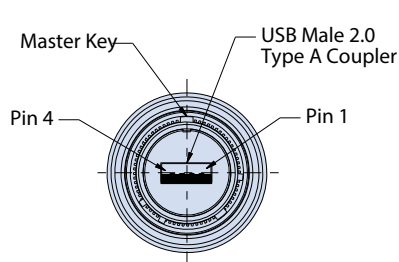
Connector Style

G6	Plug
07	Rear panel mount, jam nut receptacle
00	Wall mount receptacle with slotted holes
D0	Wall mount receptacle with round holes
CM	Wall mount receptacle with metric clinch nuts

USB 2.0 Wiring

Pin	Name	Cable Color (USB)	Description	Recommended Wire Sizes (AWG)
1	(V Bus)	Red	+5 V	22
2	(D-)	White	Data -	28
3	(D+)	Green	Data +	28
4	(GND)	Black	Ground	22

G6 - PLUG WITH ACCESSORY THREADS





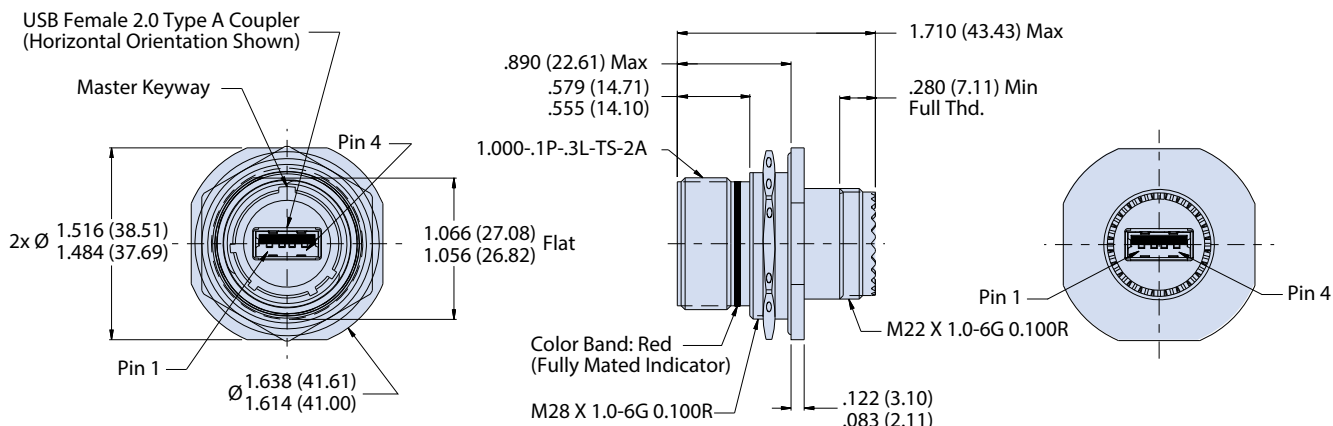
USB 2.0 TYPE A CONNECTORS

MIL-DTL-38999 Series III Type Connectors



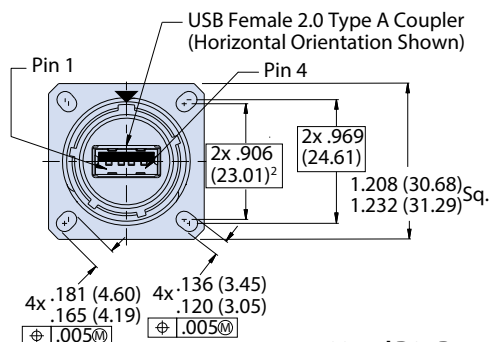
233-340 Couplers with accessory threads

07 - REAR PANEL MOUNT, JAM NUT RECEPTACLE WITH ACCESSORY THREADS

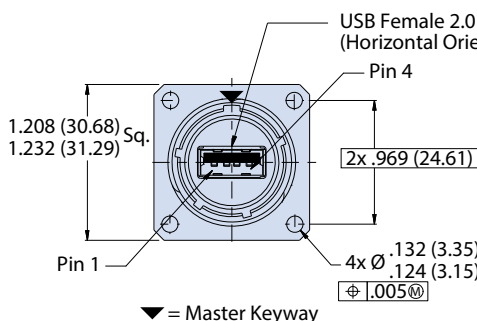


00, DO AND CM - WALL MOUNT RECEPTACLES WITH ACCESSORY THREADS

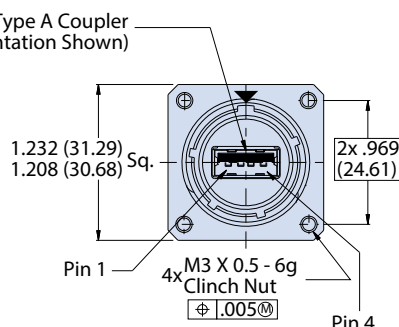
00 - Slotted Hole Receptacle Face View



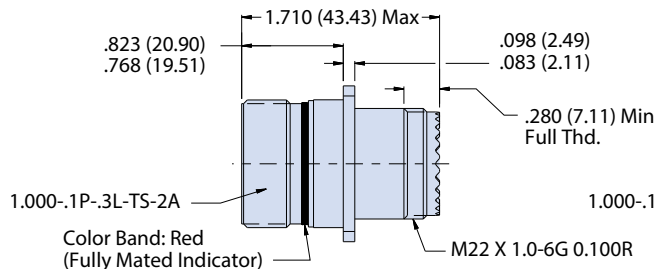
DO - Round Hole Receptacle Face View



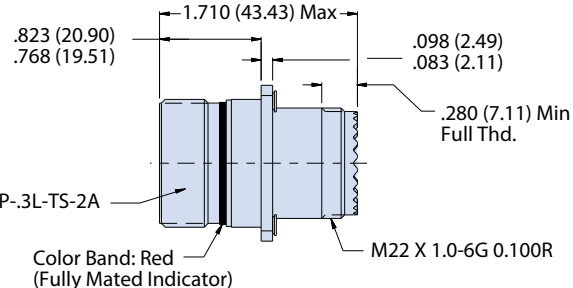
CM - Clinch Hole Receptacle Face View



00 and DO - Receptacle Side View



CM - Receptacle Side View



NOTES

1. See Section A for alternate key/keyway positions and panel cutout dimensions
2. Meets IP67 in unmated condition, IP68 mated
3. Receptacle has USB female receptacle, plug has USB male plug

4. Material and Finish
 - Shell, jam nut: al alloy
 - Insulators: high grade rigid dielectric/ n.a.
 - Contacts: copper alloy, gold plated
 - Seals: silicone based elastomer

- USB (shell/contacts): copper alloy
- Dielectric: hi-temp thermoplastic PA9T UL94V-0
- Hardware: stainless steel /passivated



USB 2.0

MIL-DTL-38999 Series III Type Connectors



233-341 USB 2.0 Type A receptacle
to size 22D crimp removable contacts



Plug
Front View



Jam Nut
Receptacle
Front View



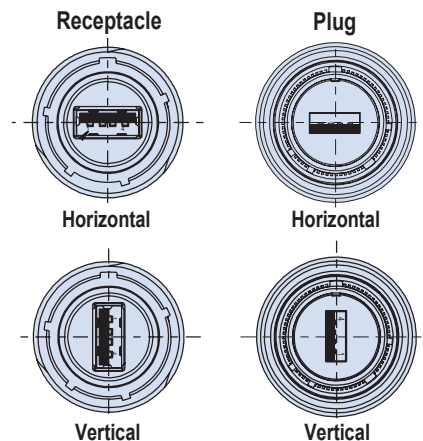
Square Flange
Receptacle
Rear View

How to Order									
Sample Part Number	233-341	NF	00	-15	2	A	N	H	T
Basic Number	233-341								
Finish¹	See Material and Finishes table¹								
Connector Style¹	See connector style table								
Shell Size	15								
RJ45 Category	2 = USB 2.0								
USB Interface Type	A = Type A								
Alternate Key Position¹	A, B, C, D, E, N = Normal; per MIL-DTL-38999								
USB Orientation	H = Horizontal V = Vertical								
Shrink Boot	T = Shrink Boot (Omit for None)								

233-341 Superseded by 233-345

Connector Style ¹	
00	Square flange receptacle with slotted holes
07	Jam nut receptacle
D0	Wall mount receptacle with slotted holes
CM	Wall mount receptacle with metric clinch nuts
G6	Plug

USB Orientation Options (Partial Views Shown)



All external dimensions, features, etc. compliant with D38999/20, /24, &/26. Consult factory for additional information.

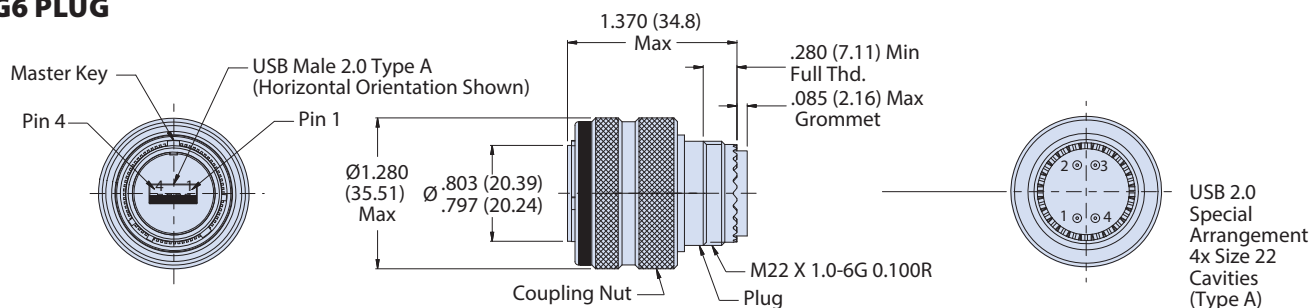
Materials and Finishes ¹	
NF	Cadmium olive drab
M	Electroless nickel
MT	Nickel PTFE

NOTES

- See Section A for alternate key positions, panel cutout dimensions and complete material and finish options
- Front panel mount only
- All external dimensions, features, etc. Compliant with D38999/20, /24 & /26. Consult factory for additional information

USB 2.0 Wiring				
Pin	Name	Cable Color (USB)	Description	Recommended Wire Sizes (AWG)
1	(V Bus)	Red	+5 V	22
2	(D-)	White	Data -	28
3	(D+)	Green	Data +	28
4	(GND)	Black	Ground	22

G6 PLUG





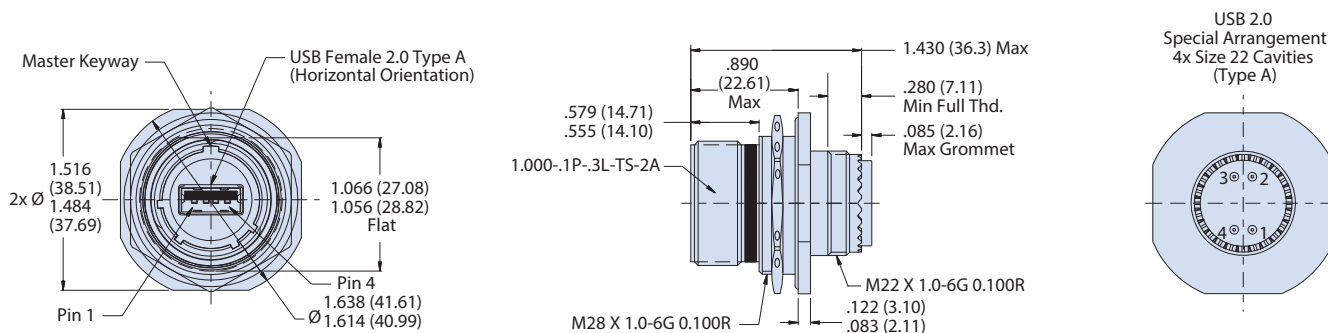
USB 2.0

MIL-DTL-38999 Series III Type Connectors

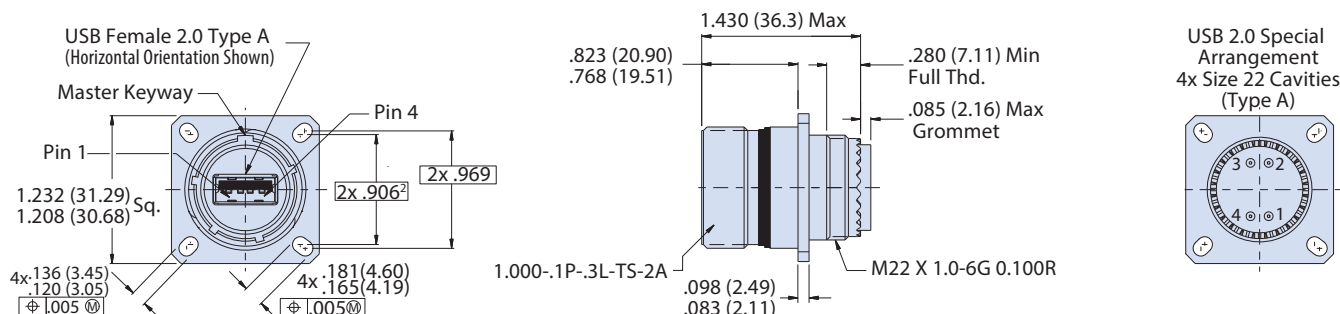


233-341 USB 2.0 Type A receptacle
to size 22D crimp removable contacts

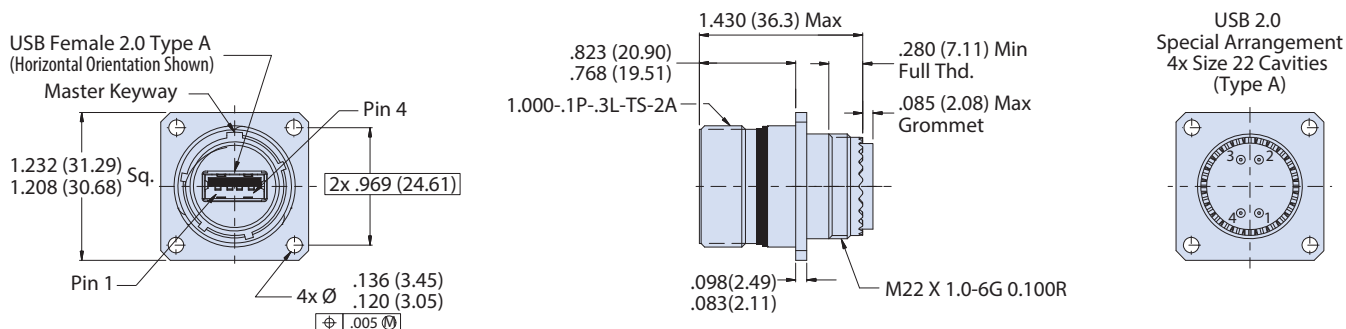
07 - REAR PANEL MOUNT, JAM NUT RECEPTACLE WITH ACCESSORY THREADS



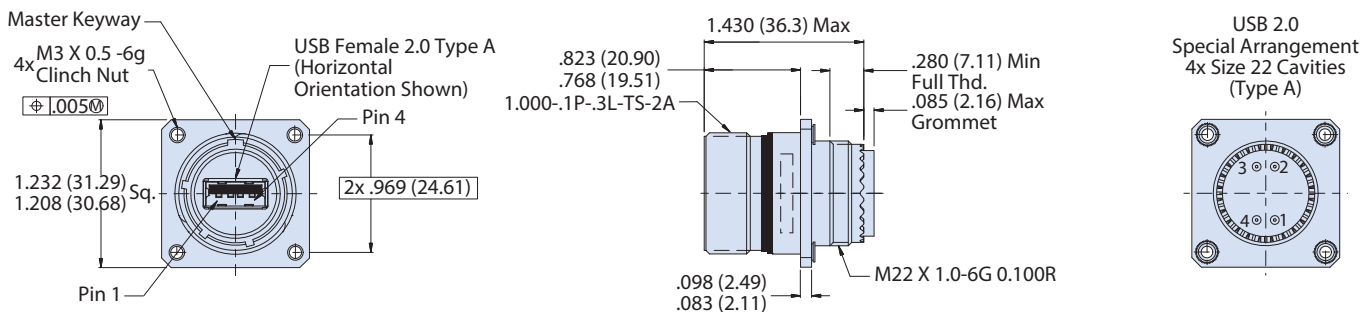
00 WALL MOUNT RECEPTACLE WITH ACCESSORY THREADS



DO - WALL MOUNT RECEPTACLES WITH ACCESSORY THREADS



CM - WALL MOUNT RECEPTACLES WITH ACCESSORY THREADS





USB 2.0 TYPE A CONNECTORS

MIL-DTL-38999 Series III Type Connectors



233-342 Receptacle with PC tails



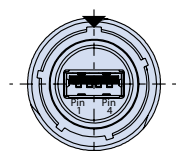
**Jam Nut Receptacle
Rear View**



**Jam Nut Receptacle
Front View**

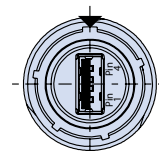
Part Number Development								
Sample Part Number	233-342	NF	00	-15	2	A	N	H
Basic Number	233-342							
Finish	See Material and Finish table							
Connector Style¹	See Connector Style table							
Shell Size	15							
USB Performance	2 = USB 2.0							
USB Interface Type	A = Type A							
Alternate Key Position¹	A, B, C, D, E, N = Normal; per MIL-DTL-38999							
USB Orientation	H = Horizontal V = Vertical							

USB Receptacle Orientation Options (Partial Views Shown)



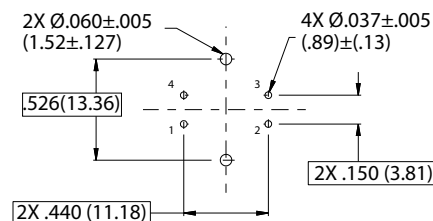
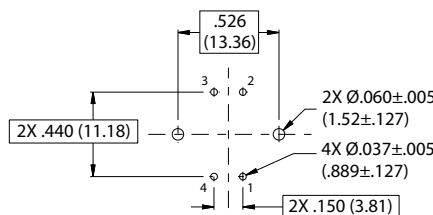
Horizontal

▼ = Master Keyway



Vertical

Recommended (Solder Side)



Material and Finish	
NF	Aluminum/Cadmium, Olive Drab
M	Aluminum/Electroless Nickel
MT	Aluminum/Nickel PTFE
ZR	Aluminum/Black Zinc-Nickel

Connector Style	
07	Rear panel mount, jam nut receptacle
00	Wall mount receptacle with slotted holes
D0	Wall mount receptacle with round holes
CM	Wall mount receptacle with metric clinch nuts

NOTES

- See Section A for alternate key/keyway positions and panel cutout dimensions
- Rear panel mount only
- Meets IP67 in unmated condition, IP68 mated
- Receptacle has USB female receptacle
- Material/Finishes:
 - Insulators: high grade rigid dielectric/ n.a.
 - Contacts: copper alloy, gold plated
 - Seals: silicone based elastomer
 - USB (shell/contacts): copper alloy
 - Dielectric: hi-temp thermoplastic PA9T UL94V-0
 - Hardware: stainless steel/passivated

USB 2.0 Wiring				
Pin	Name	Cable Color (USB)	Description	Recommended Wire Sizes (AWG)
1	(V Bus)	Red	+5 V	22
2	(D-)	White	Data -	28
3	(D+)	Green	Data +	28
4	(GND)	Black	Ground	22

All external dimensions, features, etc. compliant with D38999/20, /24, &/26. Consult factory for additional information.



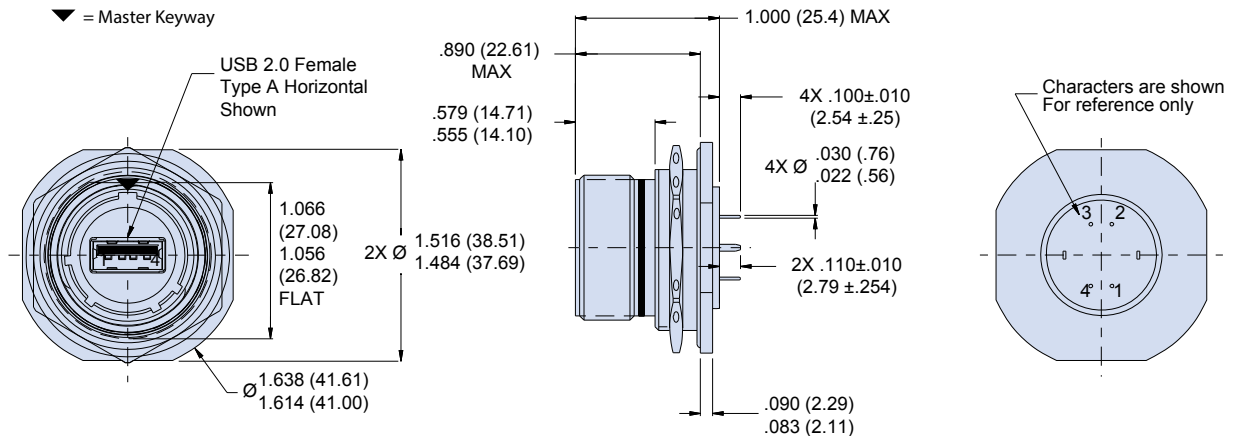
USB 2.0 TYPE A CONNECTORS

MIL-DTL-38999 Series III Type Connectors



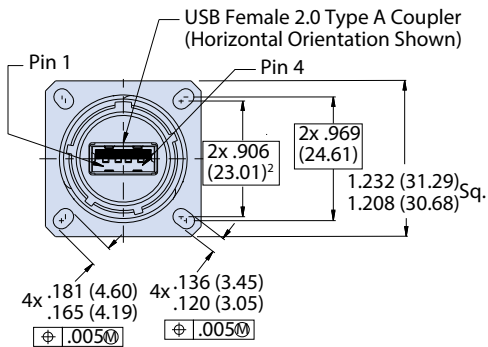
233-342 Receptacle with PC tails

07 - REAR PANEL MOUNT, JAM NUT RECEPTACLE

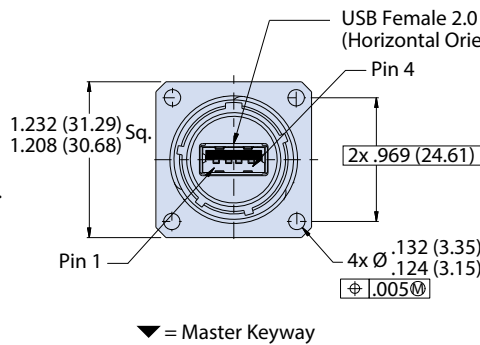


00, D0 AND CM - WALL MOUNT RECEPTACLES

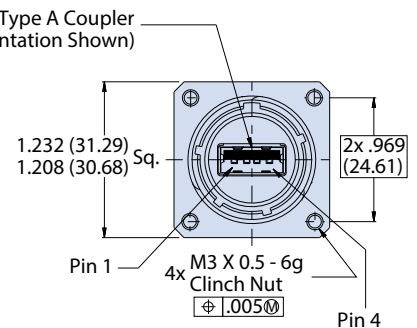
00 - Slotted Hole Receptacle Face View



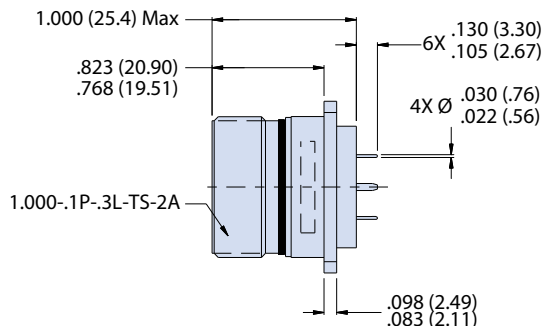
D0 - Round Hole Receptacle Face View



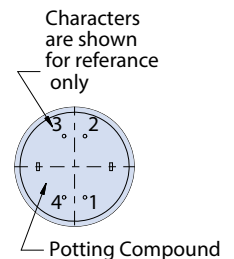
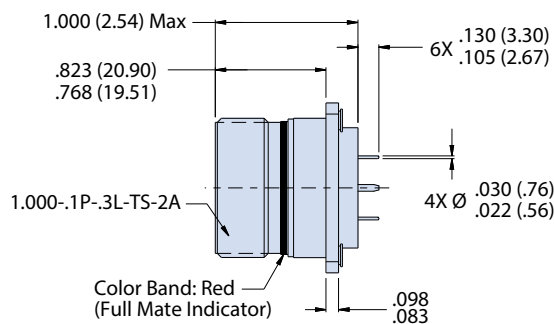
CM - Clinch Hole Receptacle Face View



00 and D0 - Receptacle (Side View)



CM - Receptacle (Side View)





USB 2.0 TYPE A CONNECTORS

MIL-DTL-38999 Series III Type Connectors



233-343 Receptacle with solder cup termination



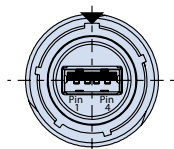
**Jam Nut Receptacle
Front View**



**Jam Nut Receptacle
Rear View**

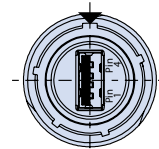
Part Number Development								
Sample Part Number	233-343	NF	00	-15	2	A	N	H
Basic Number	233-343							
Finish	See Material and Finish table							
Connector Style¹	See Connector Style table							
Shell Size	15							
USB Performance	2 = USB 2.0							
USB Interface Type	A = Type A							
Alternate Key Position¹	A, B, C, D, E, N = Normal; per MIL-DTL-38999							
USB Orientation	H = Horizontal V = Vertical							

USB Receptacle Orientation Options (Partial Views Shown)



Horizontal

▼ = Master Keyway



Vertical

Material and Finish	
NF	Aluminum/cadmium, olive drab
M	Aluminum/electroless nickel
MT	Aluminum/nickel PTFE
ZR	Aluminum/black zinc-nickel

Connector Style	
07	Rear panel mount, jam nut receptacle
00	Wall mount receptacle with slotted holes
D0	Wall mount receptacle with round holes
CM	Wall mount receptacle with metric clinch nuts

USB 2.0 Wiring				
Pin	Name	Cable Color (USB)	Description	Recommended Wire Sizes (AWG)
1	(V Bus)	Red	+5 V	22
2	(D-)	White	Data -	28
3	(D+)	Green	Data +	28
4	(GND)	Black	Ground	22

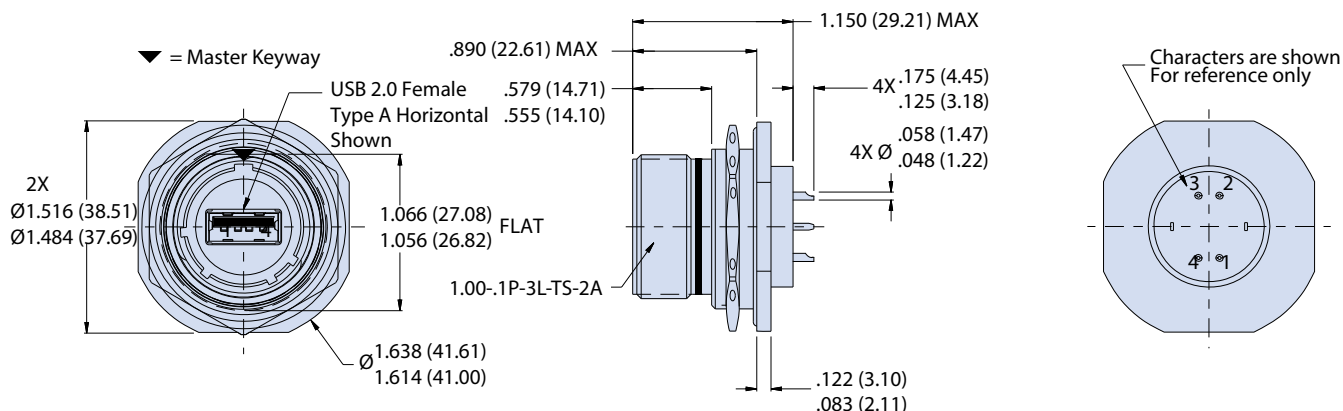
All external dimensions, features, etc. compliant with D38999/20, /24, &/26. Consult factory for additional information.

NOTES

- See Section A for alternate key/keyway positions and panel cutout dimensions
- Front panel mount only
- All external dimensions, features, etc. Compliant with D38999/20, /24 & /26. Consult factory for additional information
- Meets IP67 in unmated condition, IP68 mated
- Receptacle has USB female receptacle
- Materials and finishes
 - Shell, jam nut: aluminum ally
 - insulators: high grade 4 rigid dielectric/n.a.
 - contacts: copper alloy, gold plated
 - seals: silicone based elastomer
 - USB (shell/contacts: copper alloy
 - dielectric: hi-temp thermoplastic PA9T UL94V-0
 - Hardware: stainless steel/passivated

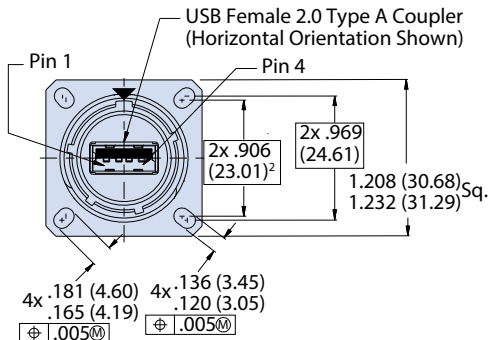
233-343 Receptacle with solder cup termination

07 - REAR PANEL MOUNT, JAM NUT RECEPTACLE

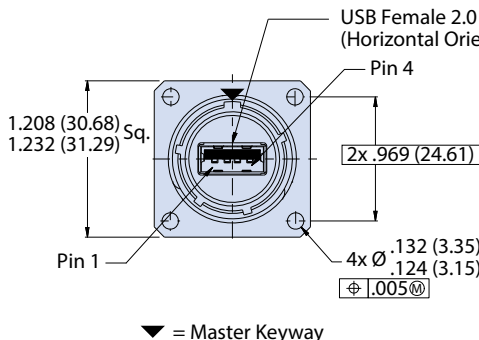


00, DO AND CM - WALL MOUNT RECEPTACLES

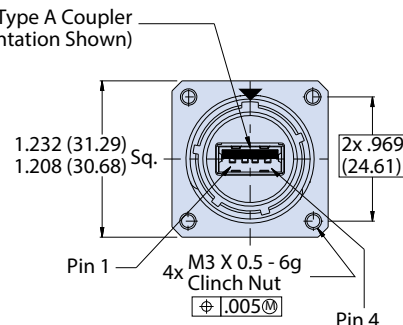
00 - Slotted Hole Receptacle Face View



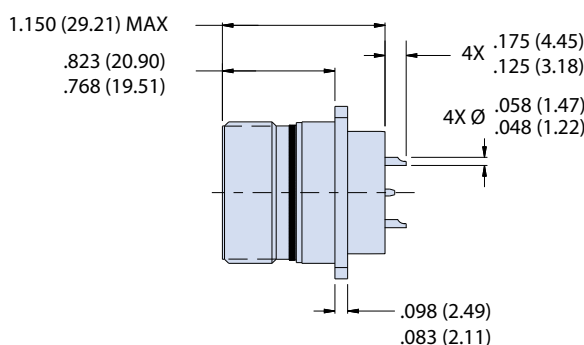
D0 - Round Hole Receptacle Face View



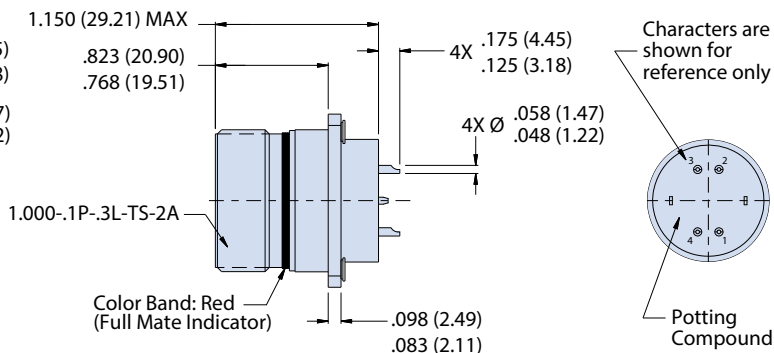
CM - Clinch Hole Receptacle Face View



00 and D0 - Receptacle Side View



CM - Receptacle Side View





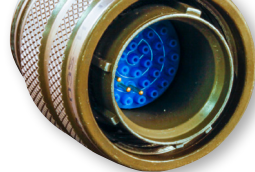
USB 2.0 TYPE A CONNECTORS

MIL-DTL-38999 Series III Type Connectors



233-344 Receptacle adapter with MIL-STD 1560 interface

Plug
Front View



Receptacle
Front View



Material and Finish

NF	Aluminum/cadmium, olive drab
M	Aluminum/electroless nickel
MT	Aluminum/nickel PTFE
ZR	Aluminum/black zinc-nickel

Connector Style

G6	Plug
07	Rear panel mount, jam nut receptacle
00	Wall mount receptacle with slotted holes ²
D0	Wall mount receptacle with round holes
CM	Wall mount receptacle with metric clinch nuts

NOTES

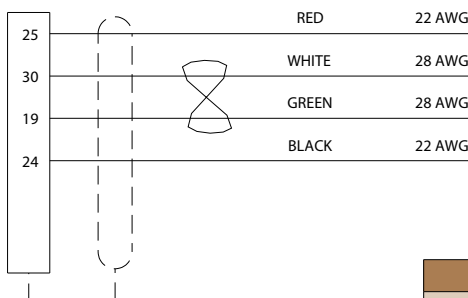
1. See Section A for alternate key/keyway positions and panel cutout dimensions
2. Front panel mount only
3. Insert arrangement in accordance with MIL-STD-1560, 15-35. Contact factory for additional options
4. Meets IP67 in unmated condition, IP68 mated
5. For custom pin assignment consult factory
6. Both plug and receptacle shells have MIL-STD-1560 mating interface and rear USB female receptacles

Part Number Development

Sample Part Number	233-344	NF	00	15	-35	2	A	P	N	T
Basic Number	233-344									
Finish	See Material and Finish table									
Connector Style ¹	See Connector Style table									
Shell Size	15									
Insert Arrangement ⁴	35 = IAW MIL-STD-1560, 15-35									
USB Performance	2 = USB 2.0									
USB Rear Interface	A = Type A									
Contact Style	P = Pin S = Socket									
Alternate Polarization ¹	A, B, C, D, E, N = Normal; per MIL-DTL-38999									
Shrink Boot	T = Shrink Boot; Omit for none									

USB 2.0 Wiring Diagram

P1 (connector interface)
Only 4 pins needed



P2 (USB 2.0 FEMALE)

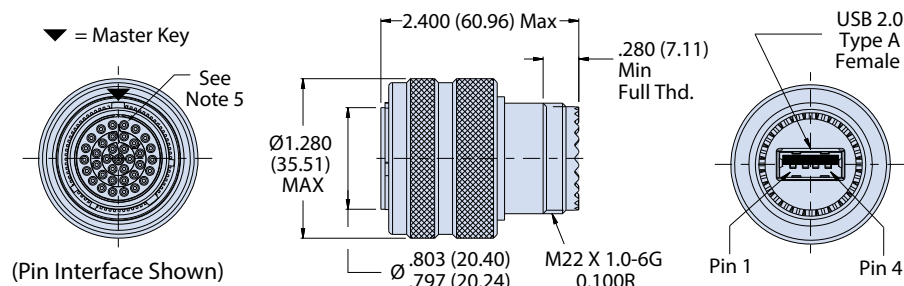
PIN	NAME	DESCRIPTION
1	V-BUS	+5 V
2	D-	DATA-
3	D+	DATA+
4	GND	GROUND

All external dimensions, features, etc. compliant with D38999/20, /24, & /26. Consult factory for additional information.

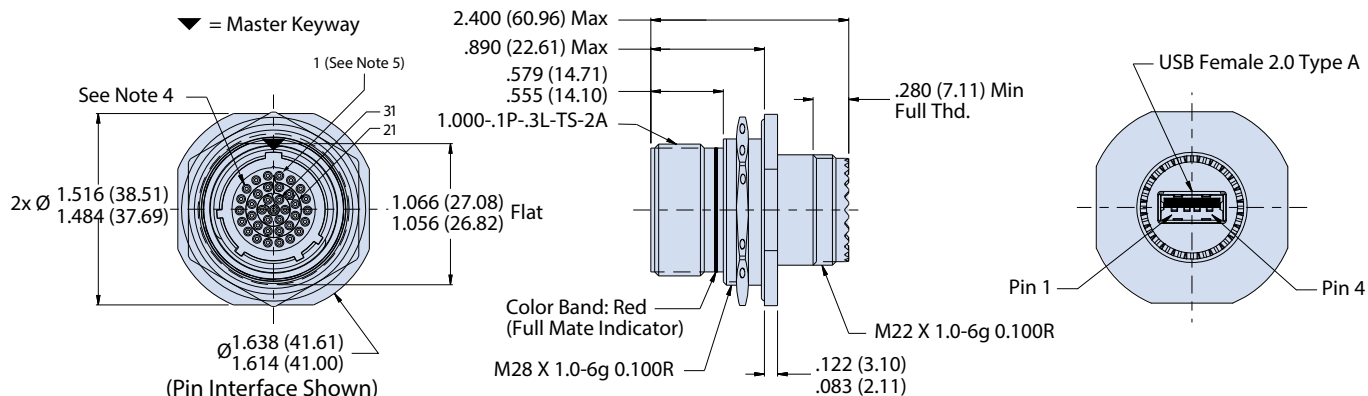
USB 2.0 Wiring

Pin	Name	Cable Color (USB)	Description	Recommended Wire Sizes (AWG)
1	(V Bus)	Red	+5 V	22
2	(D-)	White	Data -	28
3	(D+)	Green	Data +	28
4	(GND)	Black	Ground	22

G6 PLUG WITH ACCESSORY THREADS



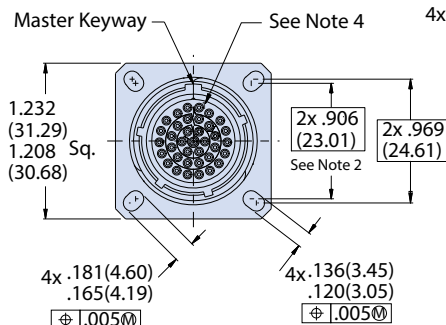
07 - REAR PANEL MOUNT, JAM NUT RECEPTACLE WITH ACCESSORY THREADS



00, DO AND CM - WALL MOUNT RECEPTACLES WITH ACCESSORY THREADS

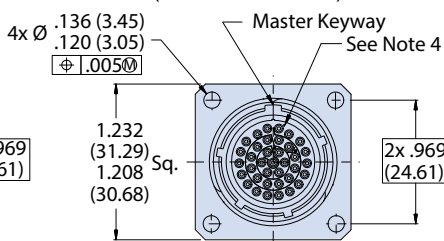
00 - Slotted Hole Receptacle (Mating Face)

(Pin Interface Shown)



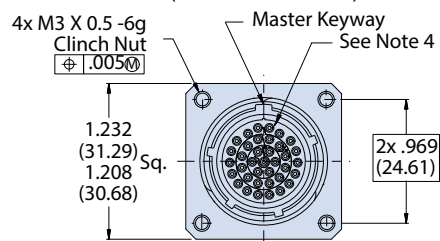
D0 - Round Hole Receptacle (Mating Face)

(Pin Interface Shown)

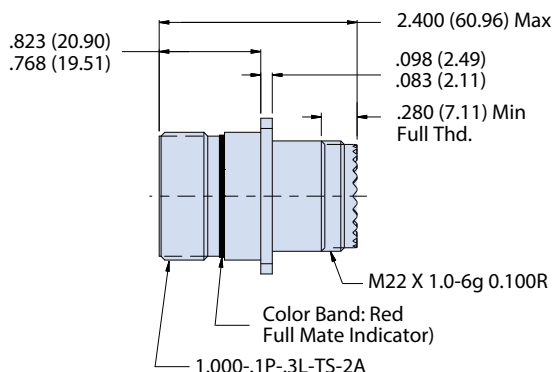


CM - Clinch Hole Receptacle (Mating Face)

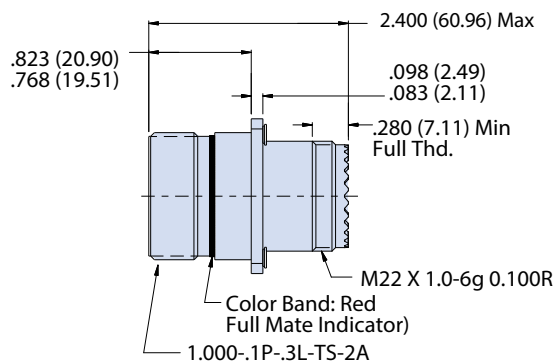
(Pin Interface Shown)



00 and D0 - Receptacle (Side View)

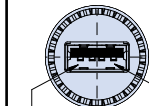


CM - Receptacle (Side View)



Rear View

USB 2.0
Female Type A
Pin locations
the same for all
wall mount
receptacles



Pin 1

Pin 4



USB 2.0 TYPE A CONNECTORS

MIL-DTL-38999 Series III Type Connectors



233-345 Receptacle with crimp removable contacts



Receptacle
Front View

Receptacle
Rear View



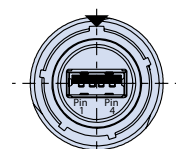
Material and Finish	
NF	Aluminum/cadmium, olive drab
M	Aluminum/electroless nickel
MT	Aluminum/nickel PTFE
ZR	Aluminum/black zinc-nickel

Connector Style	
G6	Plug
07	Rear panel mount, jam nut receptacle
00	Wall mount receptacle with slotted holes
D0	Wall mount receptacle with round holes
CM	Wall mount receptacle with metric clinch nuts

USB 2.0 Wiring				
Pin	Name	Cable Color (USB)	Description	Recommended Wire Sizes (AWG)
1	(V Bus)	Red	+5 V	22
2	(D-)	White	Data -	28
3	(D+)	Green	Data +	28
4	(GND)	Black	Ground	22

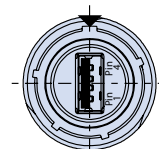
Part Number Development									
Sample Part Number	233-345	NF	00	-15	2	A	N	H	T
Basic Number	233-345								
Finish	See Material and Finish table								
Connector Style ¹	See Connector Style table								
Shell Size	15								
USB Performance	2 = USB 2.0								
USB Interface Type	A = Type A								
Alternate Polarization ¹	A, B, C, D, E, N = Normal; per MIL-DTL-38999								
USB Orientation	H = Horizontal V = Vertical								
Shrink Boot	T = Shrink Boot; Omit for none								

USB Receptacle Orientation Options (Partial Views Shown)



Horizontal

▼ = Master Keyway



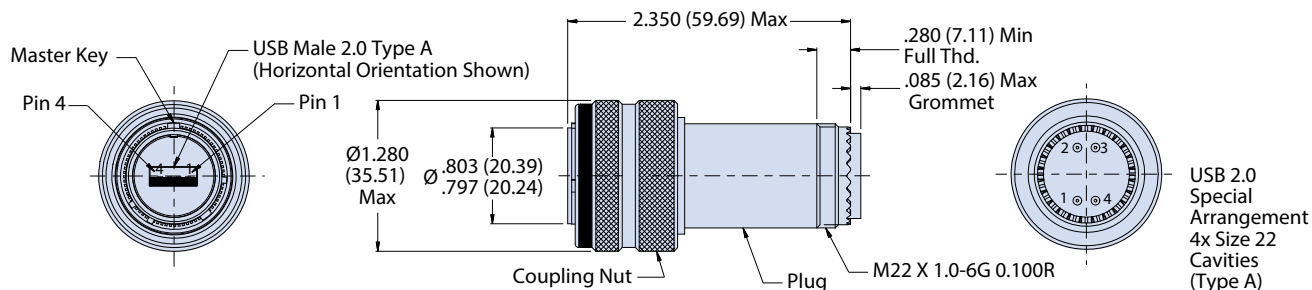
Vertical

NOTES

1. See Section A for alternate key/keyway positions and panel cutout dimensions
2. Front panel mount only
3. Crimp removable size 22 socket contacts (M39029/56-348) supplied loose
4. Meets IP67 in unmated condition, IP68 mated
5. Receptacle has USB female receptacle mating interface

All external dimensions, features, etc. compliant with D38999/20, /24, &/26. Consult factory for additional information.

G6 PLUG WITH ACCESSORY THREADS





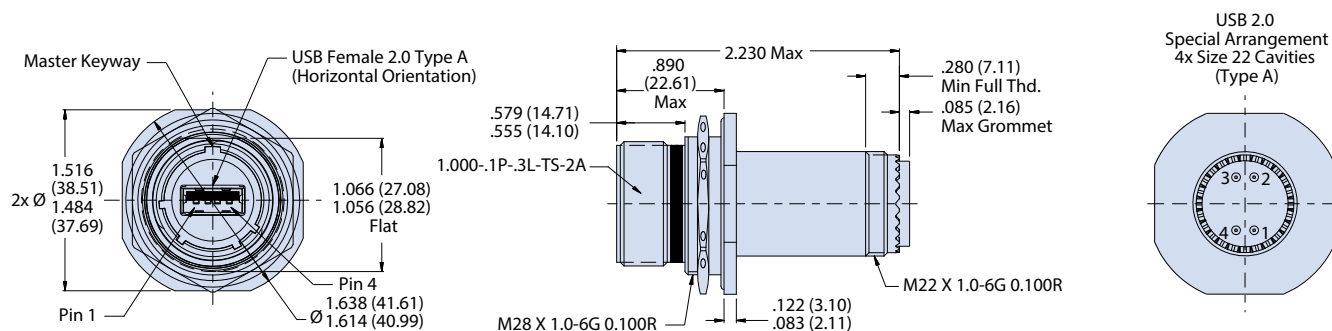
USB 2.0 TYPE A CONNECTORS

MIL-DTL-38999 Series III Type Connectors

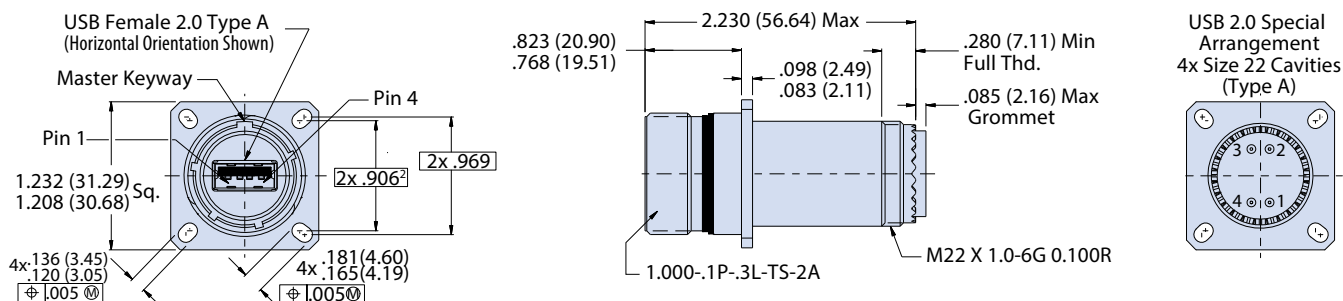


233-345 Receptacle with crimp removable contacts

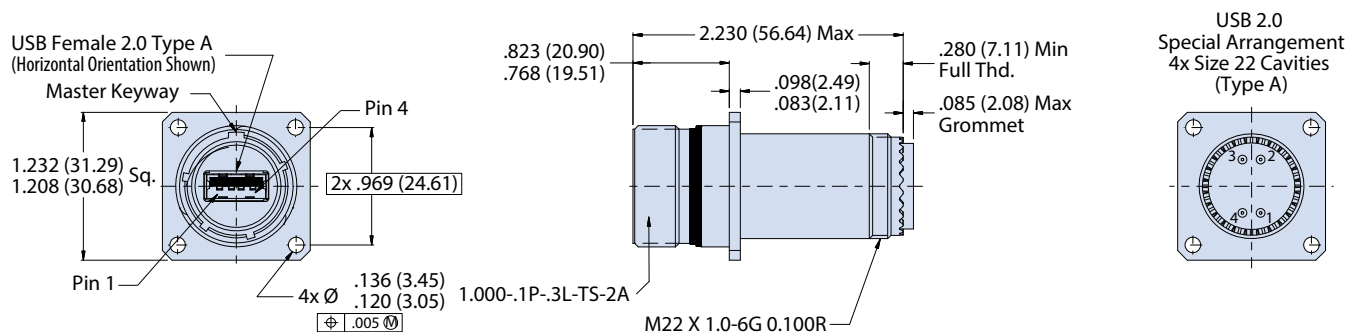
07 - REAR PANEL MOUNT, JAM NUT RECEPTACLE WITH ACCESSORY THREADS



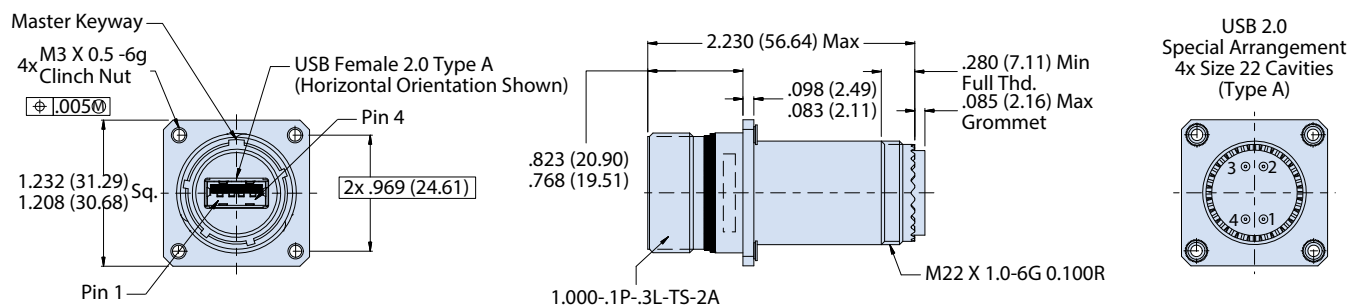
00 WALL MOUNT RECEPTACLE WITH ACCESSORY THREADS



DO - WALL MOUNT RECEPTACLES WITH ACCESSORY THREADS



CM - WALL MOUNT RECEPTACLES WITH ACCESSORY THREADS





USB 2.0 TYPE A CONNECTORS

MIL-DTL-38999 Series III Type Connectors



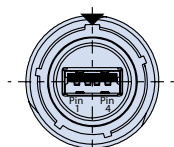
233-370 Feed-through receptacle



Feed-through
Front View

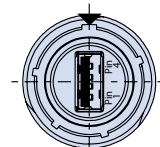
Part Number Development									
Sample Part Number	233-370	NF	00	-17	2	A	A	N	H
Basic Number	233-370								
Finish	See Material and Finish table								
Connector Style ¹	See Connector Style table								
Shell Size	15 or 17								
USB Performance	2 = USB 2.0								
USB Front Interface	A = Type A								
USB Rear Interface	A = Type A								
Alternate Polarization ¹	A, B, C, D, E, N = Normal								
USB Orientation	H = Horizontal V = Vertical								

USB Receptacle Orientation Options (Partial Views Shown)



Horizontal

▼ = Master Keyway



Vertical

Material and Finish

NF	Aluminum/cadmium, olive drab
M	Aluminum/electroless nickel
MT	Aluminum/nickel PTFE
ZR	Aluminum/black zinc-nickel

Connector Style

07	Rear panel mount, jam nut receptacle
00	Wall mount receptacle with slotted holes ²
D0	Wall mount receptacle with round holes
CM	Wall mount receptacle with metric clinch nuts

USB 2.0 Wiring

Pin	Name	Cable Color (USB)	Description	Recommended Wire Sizes (AWG)
1	(V Bus)	Red	+5 V	22
2	(D-)	White	Data -	28
3	(D+)	Green	Data +	28
4	(GND)	Black	Ground	22

NOTES

- See Section A for alternate key/keyway positions and panel cutout dimensions
- Front panel mount only
- Meets IP67 in unmated condition, IP68 mated
- Feedthru has front and rear USB female mating interface

Jam Nut Mount

Shell Size	Ø H		J		K Flat		L Thread
	in	mm	in	mm	in	mm	
15	1.638	41.61	1.516	38.51	1.066	27.08	M28 X 1.0-6G 0.100R
	1.614	41.00	1.484	37.69	1.056	26.82	
17	1.764	44.81	1.642	41.71	1.191	30.25	M32 X 1.0-6G 0.100R ⁴
	1.740	44.20	1.610	40.89	1.181	30.00	

Wall Mount

Shell Size	A Thread		B Sq		C Bsc		D Bsc ²		E		F		Ø G Holes	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
15	1.0000-.1P-.3L-TS-2A	1.232 1.208	31.29 30.68	.969	24.61	.906	23.01	.136 0.120	3.45 3.05	0.181 0.165	4.60 4.19	0.136 0.120	3.45 3.05	
17	1.1875-.1P-.3L-TS-2A	1.323 1.299	33.60 32.99	1.062	26.97	.969	24.61							



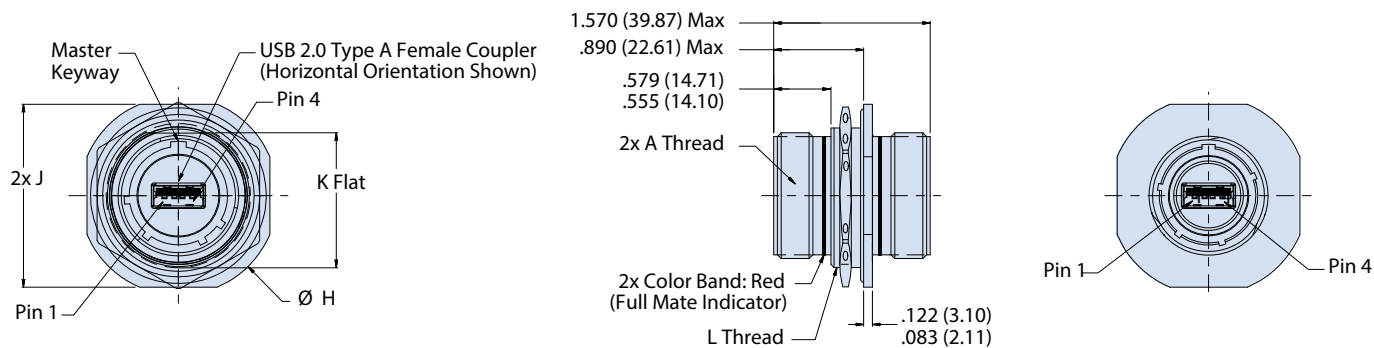
USB 2.0 TYPE A CONNECTORS

MIL-DTL-38999 Series III Type Connectors



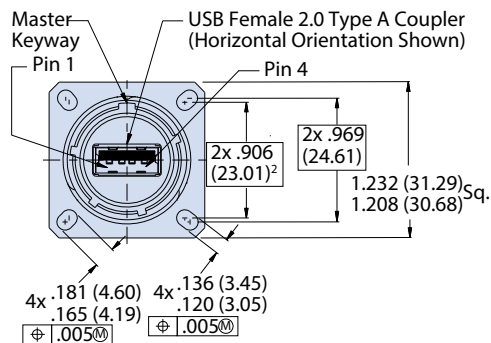
233-370 Feed-through receptacle

07 - REAR PANEL MOUNT, JAM NUT RECEPTACLE

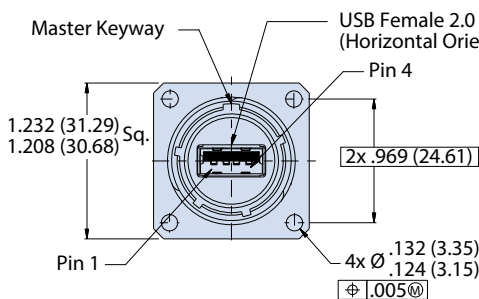


00, DO AND CM - WALL MOUNT RECEPTACLES

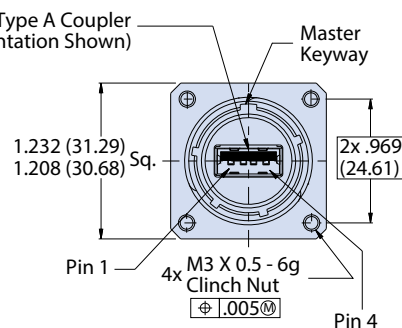
00 - Slotted Hole Receptacle Face View



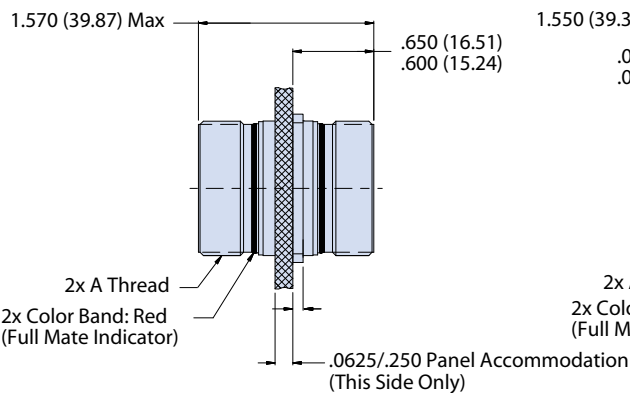
D0 - Round Hole Receptacle Face View



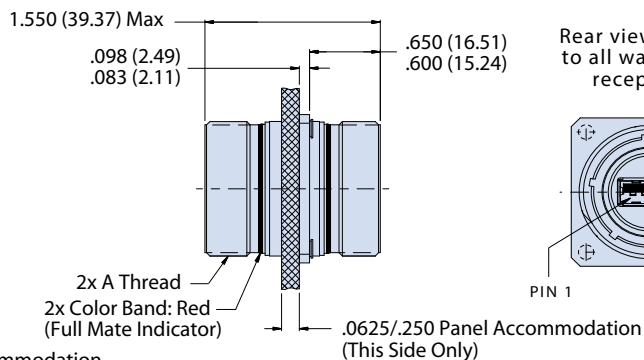
CM - Clinch Hole Receptacle Face View



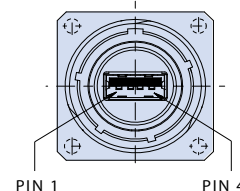
00 and D0 - Receptacle Side View



CM - Receptacle Side View



Rear view applies to all wall mount receptacles



All external dimensions, features, etc. compliant with D38999/20, /24, &/26. Consult factory for additional information.



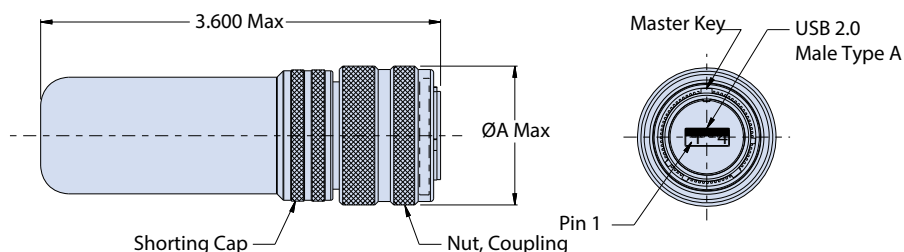
USB 2.0 TYPE A CONNECTORS

MIL-DTL-38999 Series III Type Connectors



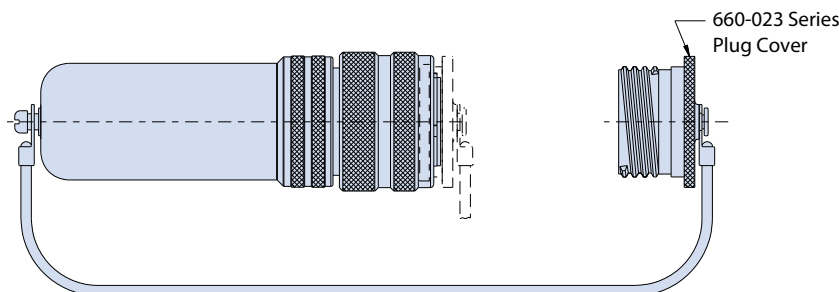
233-390 USB 2.0 Memory stick

Part Number Development							
Sample Part Number	233-390	NF	32	-15	N	H	P
Series / Basic Part No.	233-390						
Finish	NF = Aluminum/cadmium olive drab ME = Aluminum/electroless nickel MT = Aluminum/nickel PTFE ZR = Aluminum/zinc-nickel						
Storage Capacity Options	128 = 128Gb 64 = 64Gb 32 = 32 Gb, 16 = 16 Gb, 8 = 8Gb						
Shell Size	15, 17, 19, 21, 23, 25						
Alternate Key Position	A, B, C, D, E, N = Normal; Per MIL-DTL-38999						
USB Orientation	H = Horizontal V = Vertical						
Protective Cover Option	P = Series 660-023 cover (omit for none)						



View shown with Protective Cap

Dimensions	
Shell Size	ØA Max
15	1.280 (32.5)
17	1.406 (35.7)
19	1.516 (38.5)
21	1.642 (41.7)
23	1.768 (44.9)
25	1.890 (48.0)



NOTES

- System requirements: Windows 2000, XP, Vista, Windows 7.
- Compatibility: plug and play; USB 2.0 Compliance.
- Interface: USB 2.0, Type A male.
- Data transfer rates: USB 2.0: Up to 25 Mb/sec read, 10Mb/sec write.
- Password protection and AES encryption.
- Mates with 233-340,-341,-342,-343 & -345
- Environmental parameters:
Operating temperatures: -40°C to 85°C (see part number development)
- Storage temperatures: -40°C to 85°C
- Humidity range operating: 10% to 95%
- Memory stick uses USB male plug
- Material/Finish
 - Barrel, coupling nut:
 - Insulators: high grade rigid dielectric/ N.A.
 - Seal: fluorosilicone/N.A.
 - EMI grounding spring: BeCu /electroless nickel plate.
 - Hardware: stainless steel/passivated



USB 3.0 TYPE A CONNECTORS

MIL-DTL-38999 Series III Type Connectors



233-392 USB 3.0 Memory stick

Part Number Development							
Sample Part Number	233-392	NF	32	15	-N	H	P
Series / Basic Part No.	233-392						
Material/Finish	NF = Aluminum/cadmium olive drab ME = Aluminum/electroless nickel MT = Aluminum/nickel PTFE ZR = Aluminum/zinc-nickel						
Storage Capacity Options	32 = 32 GB, 64 = 64 GB, 128 = 128 GB						
Shell Size	15						
Alternate Polarization	A, B, C, D, E, N = Normal; Per MIL-DTL-38999						
USB Orientation	H = Horizontal V = Vertical						
Protective Cover Option	P = Series 660-023 cover; Omit for none						

NOTES

- Contact factory for details of protective cover options.
- This connector is designed to mate with Glenair part numbers 233-340,-341,-342,-343 &-345.
- USB flash memory specifications:
 - Storage capacity - 32 GB, 64 GB, 128 GB (consult factory for other capacity options)
 - System requirements - windows 2000, xp, vista, windows 7.
 - Compatibility - plug and play; USB 3.0 compliance; backward compatible with USB 2.0.
 - Interface - USB 3.0, Type a male.
 - Data transfer rates - see table II
 - Password protection and AES encryption.
 - Environmental parameters:
 - » Operating temperatures - -40°C to 85°C
 - » Storage temperatures - -40°C to 85°C
 - » Humidity range operating - 10% to 95%.
- Material/finishes:
 - Barrel, coupling nut - see part number development
 - Insulators-high grade rigid dielectric/N.A.
 - Seal: fluorosilicone/N.A.
 - EMI grounding spring-BeCu/ electroless nickel plate.
 - Hardware: stainless steel/ passivated
- Assembly shall be identified with Glenair's name, part number and date code, space permitting.
- Interpret drawing per ASME Y14.5 - 2009.

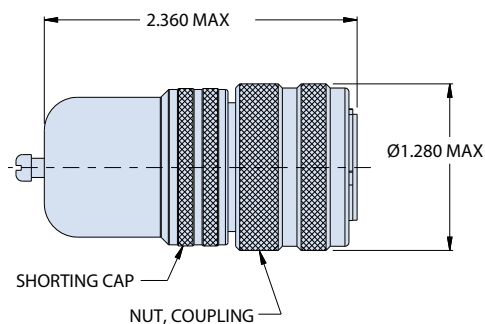
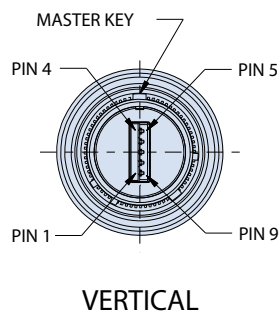
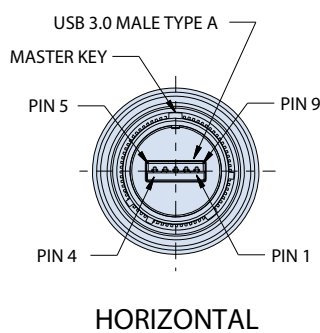


Table II		
Read / Write Performance		
Capacity	Read (Mb/S)	Write (Mb/S)
32 Gb	190	45
64 Gb	190	95
128 Gb	195	95





USB 2.0 TYPE A CONNECTORS

MIL-DTL-38999 Series III Type Connectors



2330-0015 USB 2.0 Cable assembly



2330-0015 Glenair SuperSeal™ USB 2.0 cable jumpers, with SuperNine® connectors to standard USB Type A plug

SuperSeal USB connectors are IP67 open face rated and IP68 in the mated condition for complete protection in harsh environments. SuperSeal connector styles include plug, wall mount and jam-nut receptacles. Wall mount receptacles are available with slotted holes and straight cable exit. USB 2.0 can be ordered in horizontal or vertical orientation to provide further security against mis-mating and conform to existing USB orientations. Please consult factory for custom configurations.

All external dimensions, features, etc. compliant with D38999/20, /24, &/26. Consult factory for additional information.

Material and Finish

NF	Aluminum/cadmium, olive drab
ME	Aluminum/electroless nickel
ZR	Zinc nickel, black (tri-valent chromium) RoHS compliant

Connector Style

G6	Plug
07	Rear panel mount, jam nut receptacle
00	Wall mount receptacle with slotted holes ²

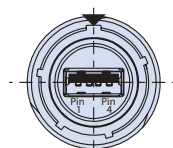
NOTES

1. See Section A for panel cutout dimensions
2. Meets IP67 in unmated condition, IP68 mated
3. Standard configurations provided with potted back end
4. SuperSeal plug houses USB plug. Superseal receptacle houses USB receptacle

Part Number Development

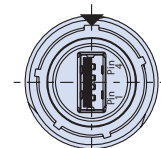
Sample Part Number	2330-0015	NF	07	S	-15	2	A	N	H	A	S	-03
Basic Number	2330-0015											
P1 Finish	See Material and Finish table											
P1 Connector Style ¹	See Connector Style table											
P1 Cable Exit	S = Straight											
P1 Shell Size	15											
USB Performance	2 = USB 2.0											
USB Interface	A = Type A											
Polarization	N = Normal											
USB Orientation	H = Horizontal V = Vertical											
P2 Connector Style	A - Type A USB plug											
P2 Cable Exit	S = Straight											
Standard Lengths	01, 02, 03, 06, 10, 15 and 25 feet in length											

USB Receptacle Orientation Options (Partial Views Shown)



Horizontal

▼ = Master Keyway



Vertical



USB 2.0 TYPE A CONNECTORS

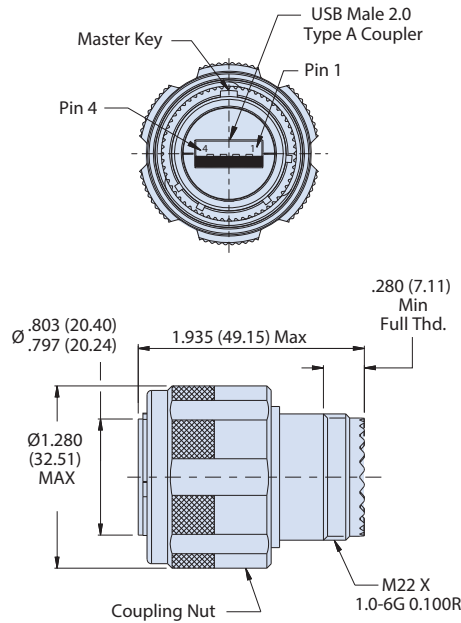
MIL-DTL-38999 Series III Type Connectors



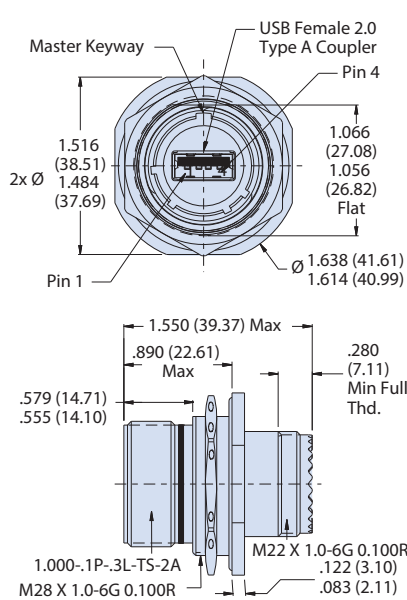
2330-0015 USB 2.0 Cable assembly

AVAILABLE P1 CONNECTOR DIMENSIONS, SHELL SIZE 15

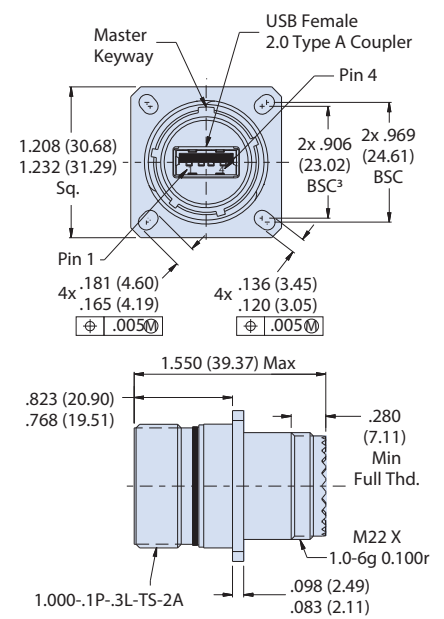
G6 Plug



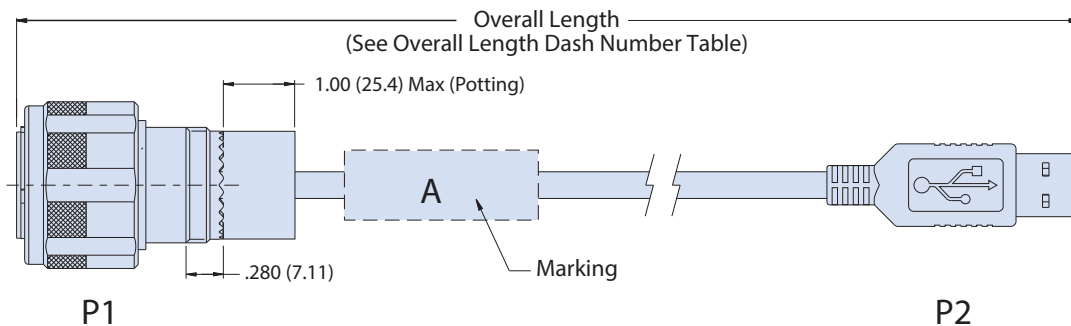
07 Receptacle, Jam-Nut Mount



00 Receptacle, Wall Mount with Slotted Holes



CABLE ASSEMBLY SHOWN WITH PLUG CONNECTOR STYLE





USB 3.0 TYPE A CONNECTORS

MIL-DTL-38999 Series III Type Connectors



2330-0445 USB 3.0 Cable assembly



2330-0445 Glenair SuperSeal™ USB 3.0 cable jumpers, with SuperNine® connectors to standard USB Type A plug

SuperSeal USB connectors are IP67 open face rated and IP68 in the mated condition for complete protection in harsh environments. SuperSeal connector styles include plug, wall mount and jam-nut receptacles. USB 3.0 can be ordered in horizontal or vertical orientation to provide further security against mis-mating and conform to existing USB orientations. Please consult factory for custom configurations.

All external dimensions, features, etc. compliant with D38999/20, /24, &/26. Consult factory for additional information.

Material and Finish

NF	Aluminum/cadmium, olive drab
ME	Aluminum/electroless nickel
ZR	Zinc nickel, black (tri-valent chromium) RoHS compliant

Connector Style

G6	Plug
07	Rear panel mount, jam nut receptacle
00	Wall mount receptacle with slotted holes ²

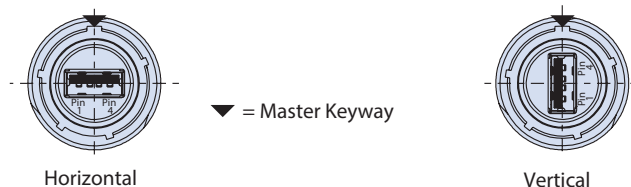
Part Number Development

Sample Part Number	2330-0445	NF	07	-15	3	A	N	H	-03
Basic Number	2330-0445								
P1 Finish	See Material and Finish table								
P1 Connector Style ¹	See Connector Style table								
P1 Shell Size	15								
USB Performance	3 = USB 3.0								
USB Interface	A = Type A								
Polarization	N = Normal								
USB Orientation	H = Horizontal V = Vertical								
Overall Length	01, 02, 03, 06 and 10 feet in length. For lengths longer than 10 feet use 2330-0450 repeaters for optimal performance								

NOTES

- See Section A for panel cutout dimensions
- Meets IP67 in unmated condition, IP68 mated
- USB 3.0 Specifications
Electrical : DWV: 100 VAC
Insulation Resistance: 100MegOhms Min
Operating Temperature: 20°C to +85°C
- Standard configurations provided with adhesive lined shrink boot
- SuperSeal plug houses USB plug.
Superseal receptacle houses USB receptacle

USB Receptacle Orientation Options (Partial Views Shown)





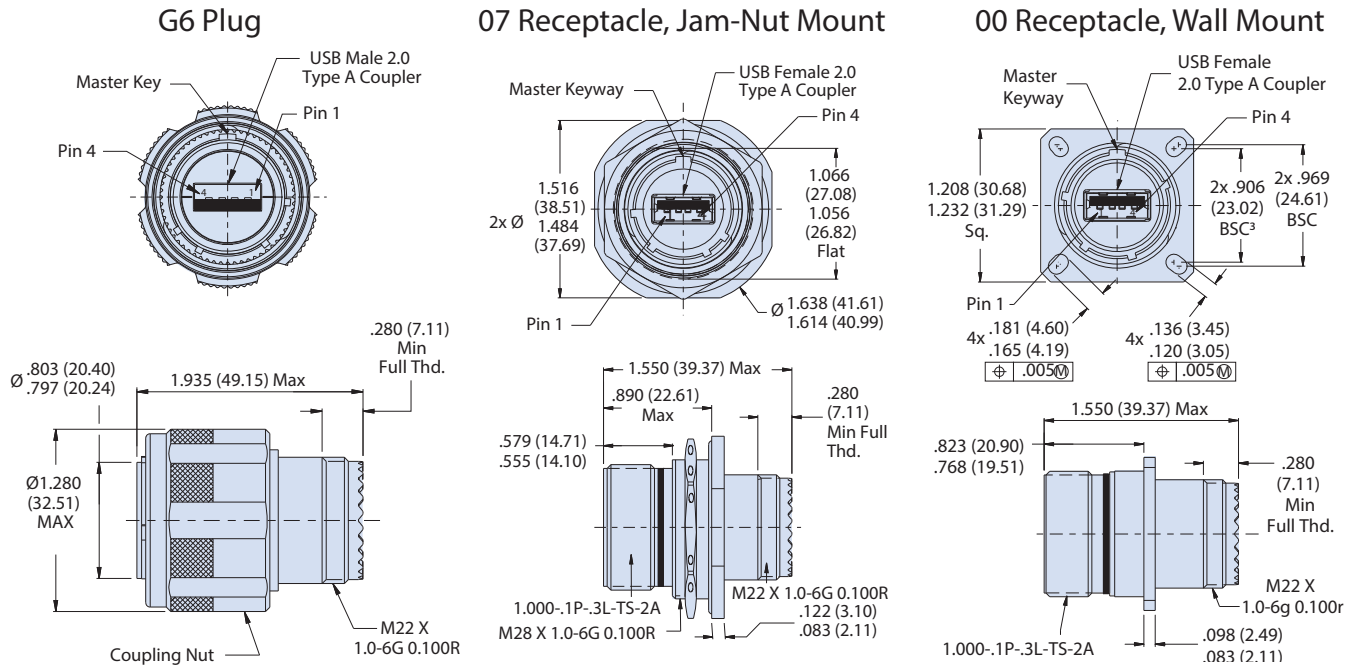
USB 3.0 TYPE A CONNECTORS

MIL-DTL-38999 Series III Type Connectors

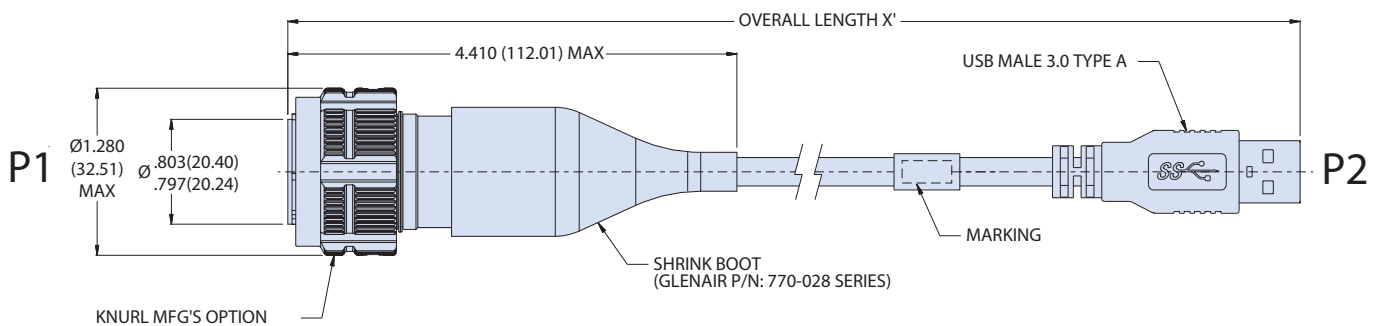


2330-0445 USB 3.0 Cable assembly

AVAILABLE P 1 CONNECTOR DIMENSIONS, SHELL SIZE 15



CABLE ASSEMBLY SHOWN WITH PLUG CONNECTOR STYLE





USB 3.0 TYPE A CONNECTORS

MIL-DTL-38999 Series III Type Connectors



2330-0450 USB 3.0 cable assembly with active repeater



All external dimensions, features, etc. compliant with D38999/20, /24, &/26. Consult factory for additional information.

Material and Finish	
NF	Aluminum/cadmium, olive drab
ME	Aluminum/electroless nickel
ZR	Zinc nickel, black (tri-valent chromium) RoHS compliant

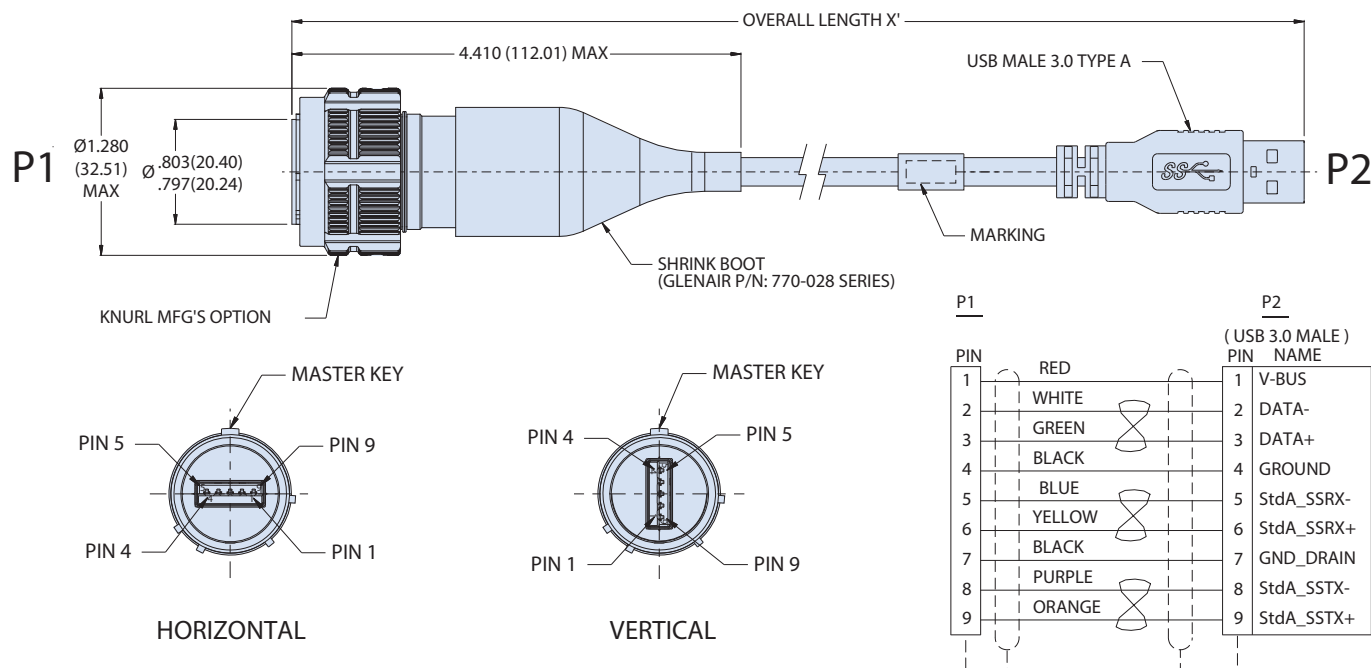
NOTES

1. Meets IP67 in unmated condition, IP68 mated
2. SuperSeal plug houses USB plug.

2330-0450 Glenair SuperSeal™ USB 3.0 plug cable jumper, with active repeater.

SuperSeal USB cable assemblies with IP67 open face rated connectors offer complete protection from environmental debris and water ingress common under harsh environmental conditions. USB 3.0 can be ordered in horizontal or vertical orientation to provide further security against mis-mating and conforms to existing USB orientations. Additional length options and custom configurations available. Please consult factory.

Part Number Development								
Sample Part Number	2330-0450	NF	G6	-15	3	A	N	H -03
Basic Number	2330-0450							
P1 Finish	See Material and Finish table							
P1 Connector Style¹	G6 = Plug							
P1 Shell Size	15							
USB Performance	3 = USB 3.0							
USB Interface	A = Type A							
Polarization	A, B, C, D, E, N = Normal							
USB Orientation	H = Horizontal V = Vertical							
Overall Length	01 thru 10 ; length in feet.							



RUGGEDIZED
SERIES ITS REVERSE-
BAYONET RJ45
CAT 6A CONNECTOR



SUPERSEAL™

Harsh-environment RJ45 data transmission connectors with fast and reliable reverse-bayonet coupling for military vehicle and rail applications



Series ITS SuperSeal™ Advantages

- Intermountable 5015 style reverse-bayonet connectors for heavy-duty industrial and transportation applications
- Reverse-bayonet coupling for fast, reliable mating in hard-to-reach locations
- Superior sealing—IP67 (open face) and IP68 (mated)—for complete harsh-environment protection
- Crimp contact termination or pigtail cables
- Available backshells provide strain-relief and environmental protection
- Integrated RJ45 plugs and jacks for Cat 5e high-speed data transmission



Glenair, Inc.
1211 Air Way
Glendale, CA 91201-2497
818-247-6000
sales@glenair.com
www.glenair.com



RJ45 CAT 5E ETHERNET
Series ITS (5015 intermountable)
Reverse Bayonet Coupling
Product Selection Guide



ITS300

Page D-2

SuperSeal™ Coupler with Accessory Threads and Plug-to-Jack (Plug) or Jack-to-Jack (Receptacle).



ITS301

Page D-4

SuperSeal™ Connector with Accessory Threads and Plug (Plug) or Jack (Receptacle) to Crimp Removable Contacts.



ITS302

Page D-6

SuperSeal™ Receptacle with RJ45 Jack to PC Tail Termination.



ITS303

Page D-8

SuperSeal™ Receptacle with RJ45 Jack to Solder Cup Termination.



ITS330

Page D-10

SuperSeal™ Feedthrough Receptacle with Jack-to-Jack RJ45.



ITS300H

Page D-11

SuperSeal™ RJ45 Connector and Backshell with Accessory Options.



RJ45 CAT 5E ETHERNET

Series ITS (5015 type) Reverse-Bayonet

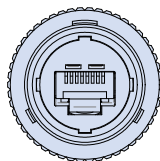


ITS300 Coupler with Accessory Threads and Plug-to-Jack (Plug) or Jack-to-Jack (Receptacle)

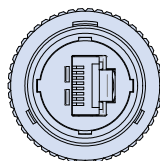


How to Order							
Sample Part Number	ITS300	030	G	18	5E	1	F7
Basic Number	ITS300						
Connector Style ¹	030 = Rear Panel Mount Square Flange Receptacle 01 = InLine Receptacle 070 = Rear Panel Mount Jam Nut Receptacle 06 = Straight Plug Connector						
Insert-to-Shell Grounding	G = Insert grounded to shell (for use with shielded cable) (Use only with G3, F11 or F7 finish) Omit = for none						
Shell Size	18						
RJ45 Category	5E = Cat 5E For Cat 6A applications consult factory						
RJ45 Orientation	1, 2, 3 or 4						
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F6 = Aluminum/Black Polymer Electrocoat F7 = Aluminum/Conductive Black Zinc Nickel F11 = Aluminum/Electroless Nickel						

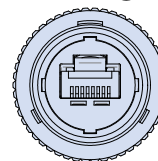
RJ45 Orientation Options (Plug Shown)



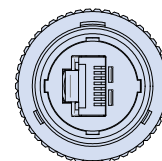
Code 1



Code 2



Code 3

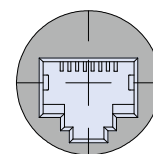
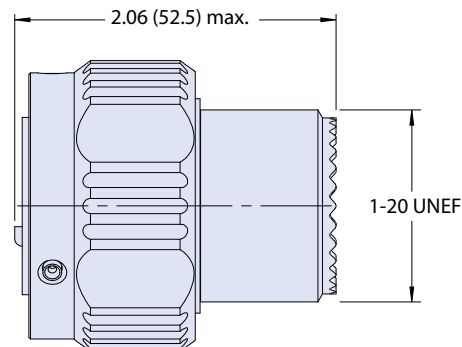
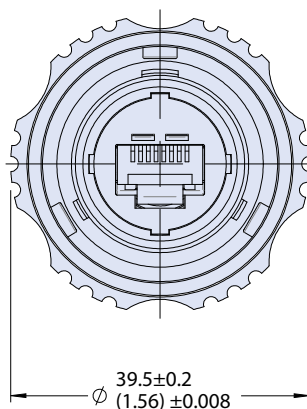


Code 4

NOTES

1. See Section A for panel cutout dimensions
2. Plugs are plug/jack and receptacles are jack/jack

06 - PLUG WITH ACCESSORY THREADS



Rear Connector View with RJ45 Jack (Applies to all connector styles)



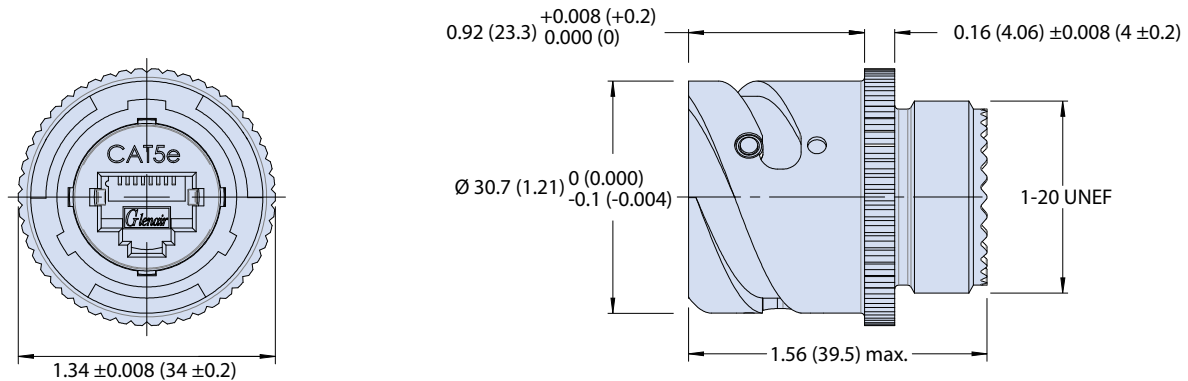
RJ45 CAT 5E ETHERNET

Series ITS (5015 type) Reverse-Bayonet

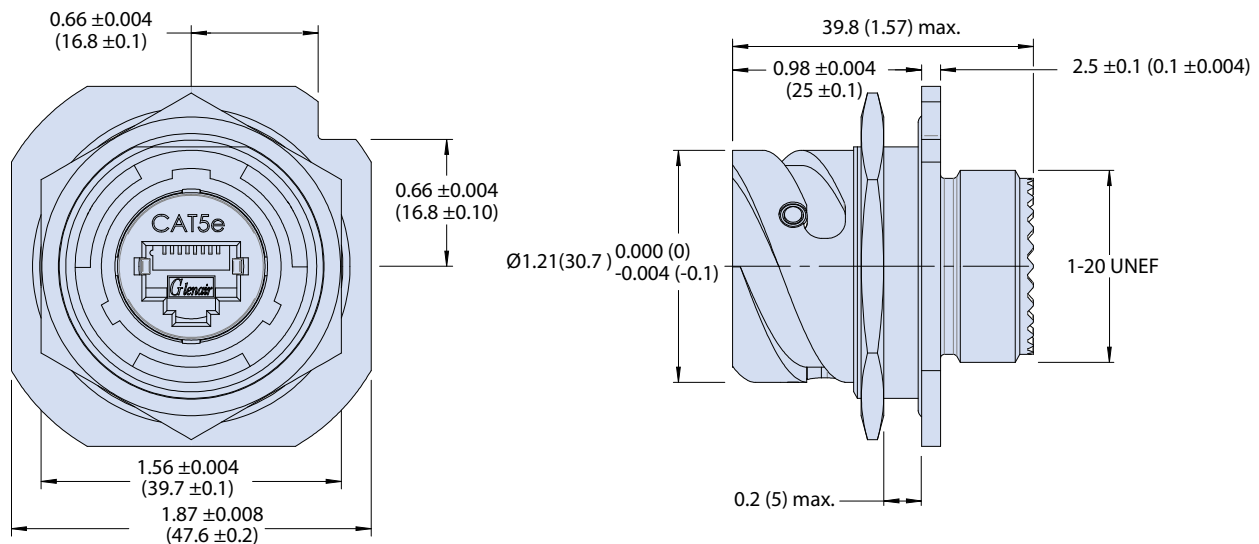


ITS300 Coupler with Accessory Threads and Plug-to-Jack (Plug) or Jack-to-Jack (Receptacle)

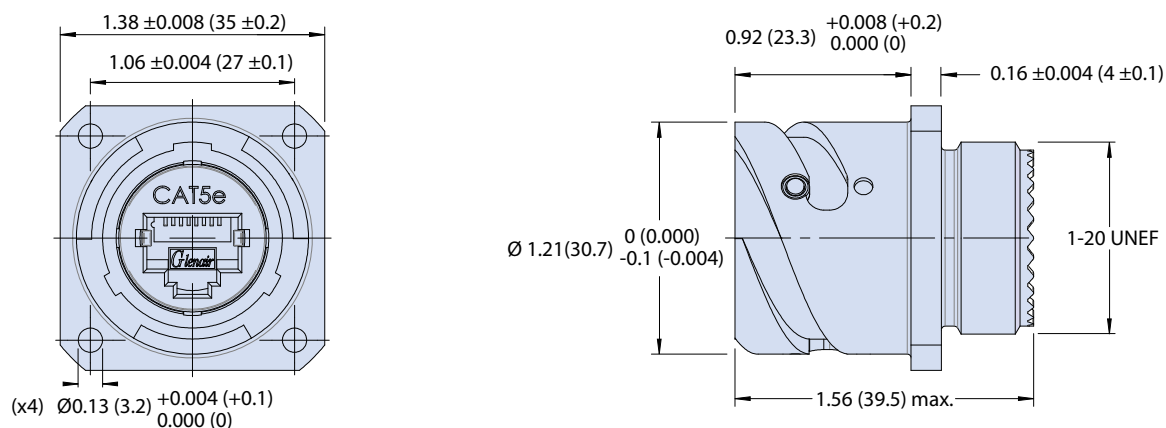
01 - INLINE RECEPTACLE WITH ACCESSORY THREADS



070 - REAR PANEL MOUNT JAM NUT RECEPTACLE WITH ACCESSORY THREADS



030 - REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE WITH ACCESSORY THREADS





RJ45 CAT 5E ETHERNET

Series ITS (5015 type) Reverse-Bayonet

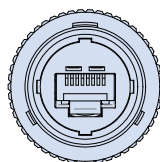


ITS301 Connector with Accessory Threads and Plug
(Plug) or Jack (Receptacle) to Crimp Removable Contacts

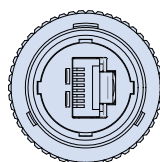


How to Order							
Sample Part Number	ITS301	030	G	18	5E	1	F7
Basic Number	ITS301						
Connector Style¹	030 = Rear Panel Mount Square Flange Receptacle 01 = InLine Receptacle 070 = Rear Panel Mount Jam Nut Receptacle 06 = Straight Plug Connector						
Insert-to-Shell Grounding	G = Insert grounded to shell (for use with shielded cable) (Use only with G3, F11 or F7 finish) Omit = for none						
Shell Size	18						
RJ45 Category	5E = Cat 5E For Cat 6A applications consult factory						
RJ45 Orientation	1, 2, 3 or 4						
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F6 = Aluminum/Black Polymer Electrocoat F7 = Aluminum/Conductive Black Zinc Nickel F11 = Aluminum/Electroless Nickel						

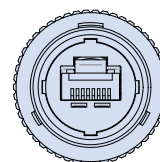
RJ45 Orientation Options (Plug Shown)



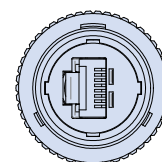
Code 1



Code 2

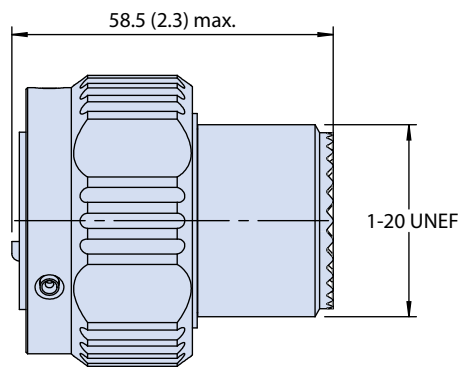
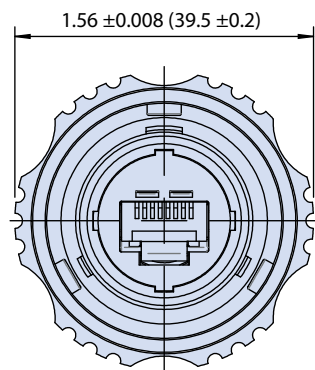


Code 3

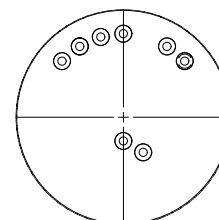


Code 4

06 - PLUG WITH ACCESSORY THREADS



PLUG AND RECEPTACLE REAR TERMINATION VIEW



NOTES

1. See Section A for panel cutout dimensions
2. Crimp removable size 22 contacts (M39029/58-360) supplied loose



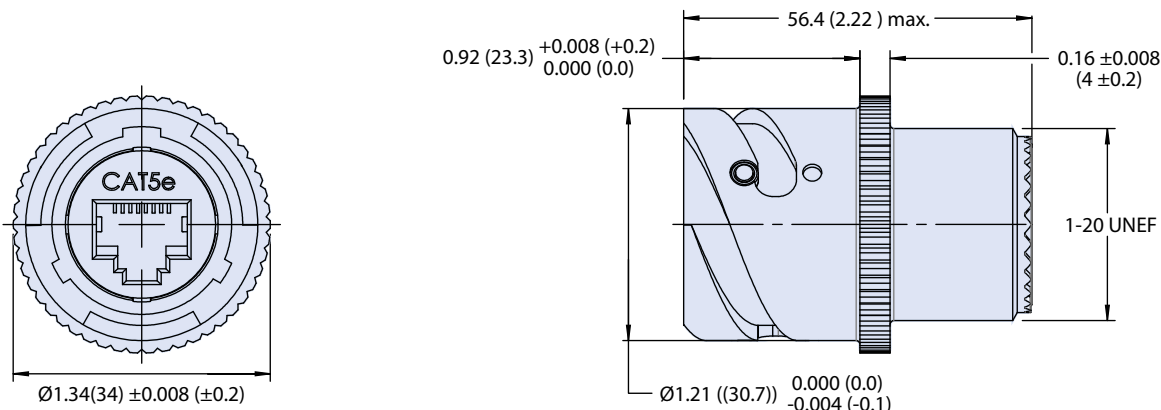
RJ45 CAT 5E ETHERNET

Series ITS (5015 type) Reverse-Bayonet

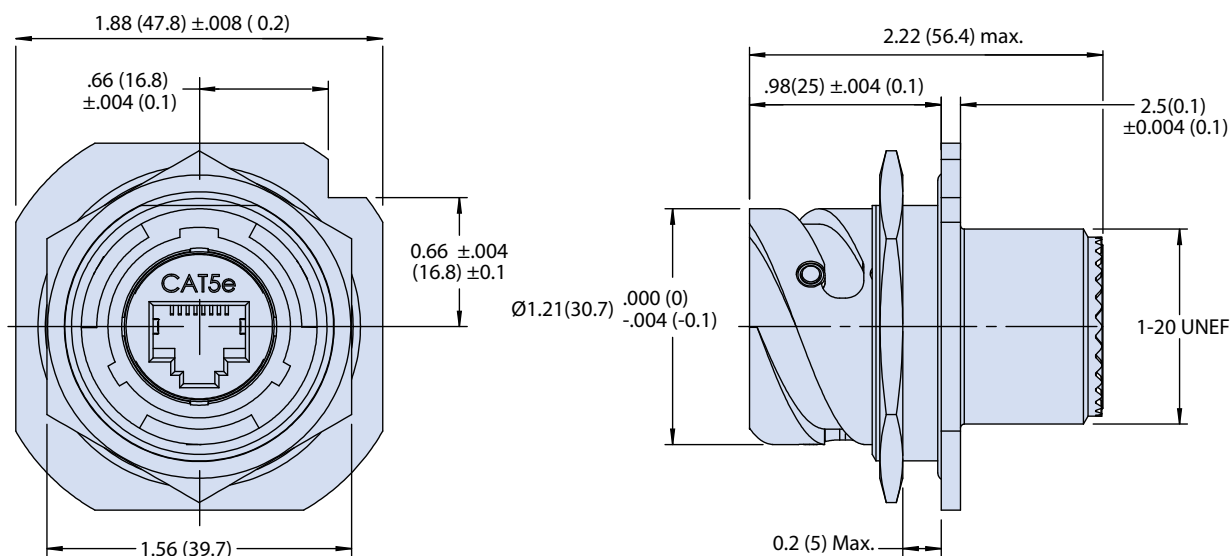


ITS301 Connector with Accessory Threads and Plug (Plug) or Jack (Receptacle) to Crimp Removable Contacts

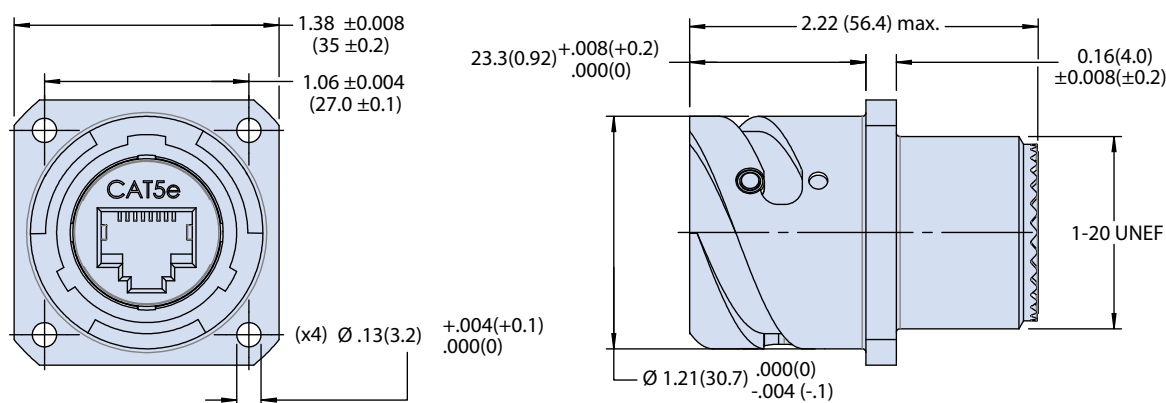
01 - INLINE RECEPTACLE WITH ACCESSORY THREADS



070 - REAR PANEL MOUNT JAM NUT RECEPTACLE WITH ACCESSORY THREADS



030 - REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE WITH ACCESSORY THREADS



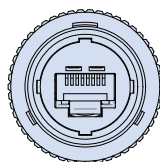


RJ45 CAT 5E ETHERNET Series ITS (5015 type) Reverse-Bayonet ITS302 Receptacle with RJ45 Jack to PC Tail Termination

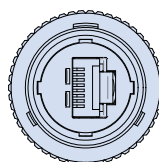


How to Order							
Sample Part Number	ITS302	03	G	18	5E	1	F7
Basic Number	ITS302						
Connector Style ¹	03 = Rear Panel Mount Square Flange Receptacle 07 = Rear Panel Mount Jam Nut Receptacle						
Insert-to-Shell Grounding	G = Insert grounded to shell (for use with shielded cable) (Use only with G3, F11 or F7 finish) Omit = for none						
Shell Size	18						
RJ45 Category	5E = Cat 5E For Cat 6A applications consult factory						
RJ45 Orientation	1, 2, 3 or 4						
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F6 = Aluminum/Black Polymer Electrocoat F7 = Aluminum/Conductive Black Zinc Nickel F11 = Aluminum/Electroless Nickel						

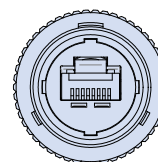
RJ45 Orientation Options (Plug Shown)



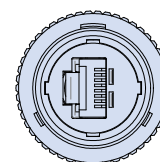
Code 1



Code 2

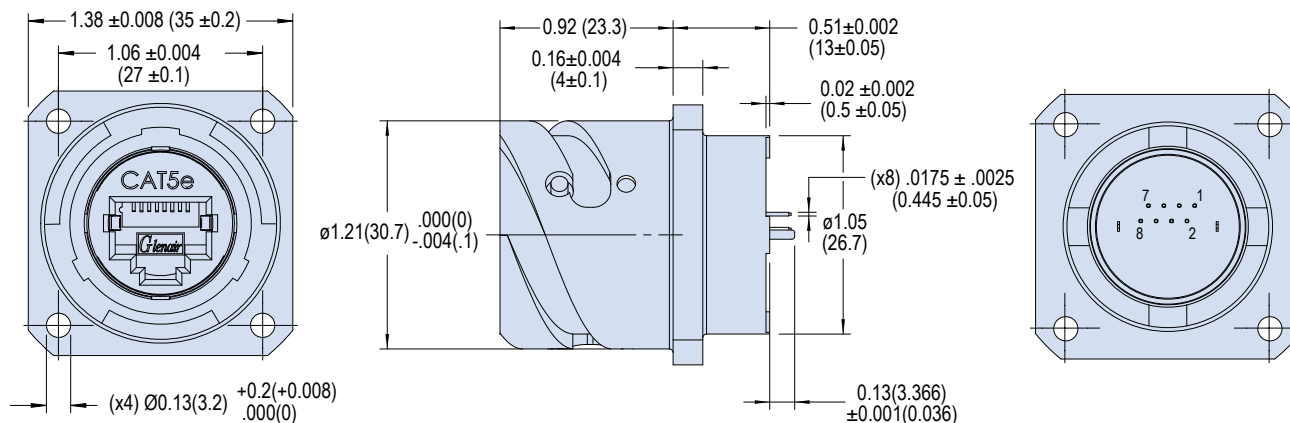


Code 3



Code 4

03 - REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE

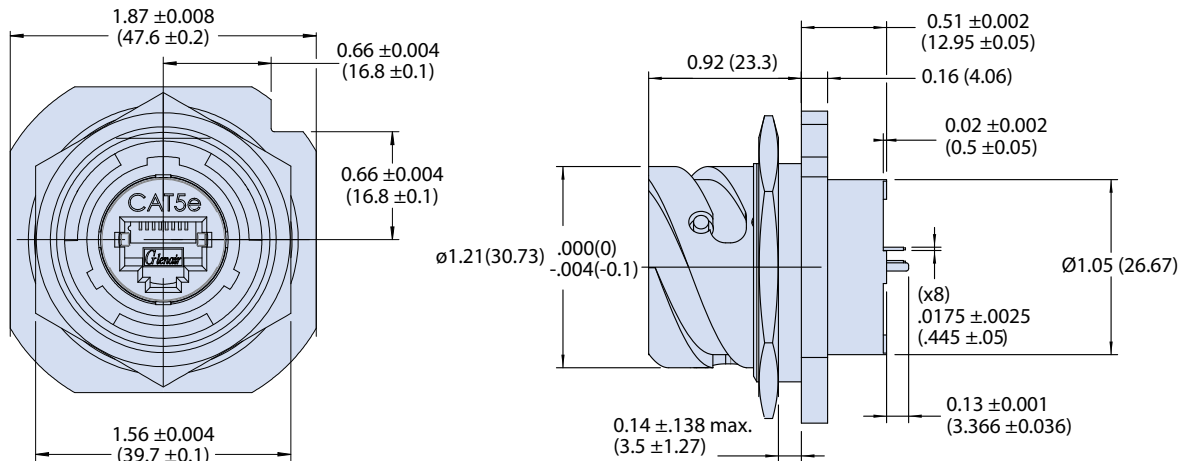




RJ45 CAT 5E ETHERNET Series ITS (5015 type) Reverse-Bayonet ITS302 Receptacle with RJ45 Jack to PC Tail Termination

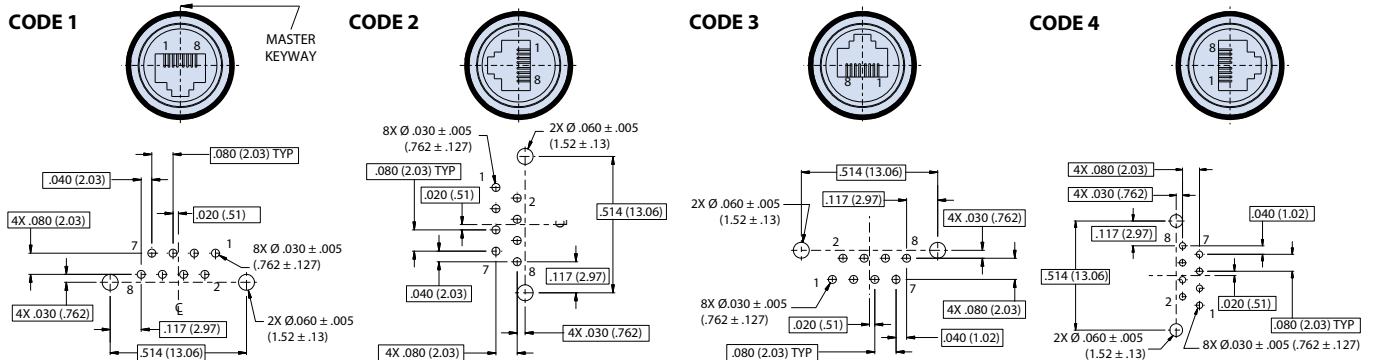


07 - REAR PANEL MOUNT JAM NUT RECEPTACLE



Receptacle RJ45 Orientation Code

Recommended PCB Layout
(Solder Side Of Board)



NOTES

1. See Section A for panel cutout dimensions, PCB footprints

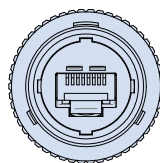


RJ45 CAT 5E ETHERNET Series ITS (5015 type) Reverse-Bayonet ITS303 Receptacle with RJ45 Jack to Solder Cup Termination

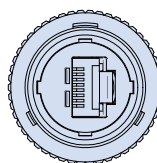


How to Order							
Sample Part Number	ITS303	03	G	18	5E	1	F7
Basic Number	ITS303						
Connector Style ¹	03 = Rear Panel Mount Square Flange Receptacle 07 = Rear Panel Mount Jam Nut Receptacle						
Insert-to-Shell Grounding	G = Insert grounded to shell (for use with shielded cable) (Use only with G3, F11 or F7 finish) Omit = for none						
Shell Size	18						
RJ45 Category	5E = Cat 5E For Cat 6A applications consult factory						
RJ45 Orientation	1, 2, 3 or 4						
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F6 = Aluminum/Black Polymer Electrocoat F7 = Aluminum/Conductive Black Zinc Nickel F11 = Aluminum/Electroless Nickel						

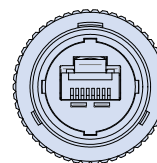
RJ45 Orientation Options (Plug Shown)



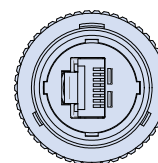
Code 1



Code 2

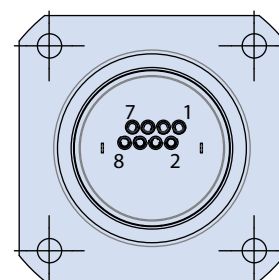
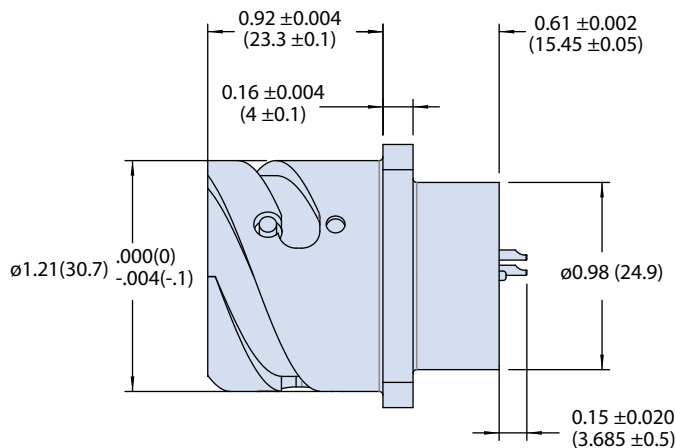
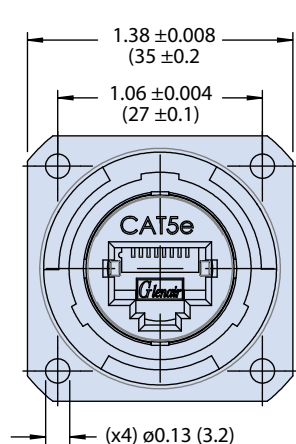


Code 3



Code 4

03 - REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE



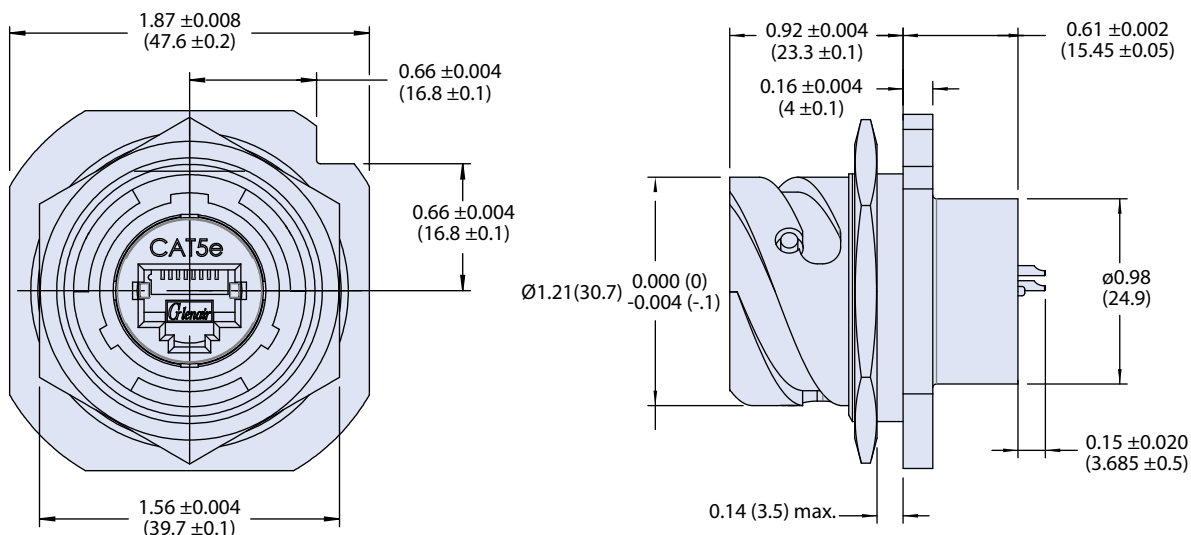
Solder Cup Layout



RJ45 CAT 5E ETHERNET Series ITS (5015 type) Reverse-Bayonet ITS303 Receptacle with RJ45 Jack to Solder Cup Termination

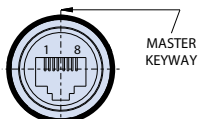


07 - REAR PANEL MOUNT JAM NUT RECEPTACLE

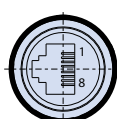


Receptacle RJ45 Orientation Code

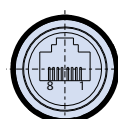
CODE 1



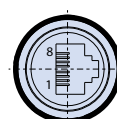
CODE 2



CODE 3



CODE 4



NOTES

1. See Section A for panel cutout dimensions

D



RJ45 CAT 5E ETHERNET

Series ITS (5015 type) Reverse-Bayonet



ITS330 Feedthrough Receptacle with Jack-to-Jack RJ45

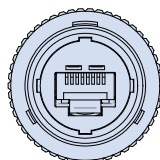


How to Order							
Sample Part Number	ITS330	03PP	G	18	5E	1	F7
Basic Number	ITS330						
Connector Style ¹	03PP = Rear Panel Mount Receptacle						
Insert-to-Shell Grounding	G = Insert grounded to shell (for use with shielded cable) (Use only with G3, F11 or F7 finish) Omit = for none						
Shell Size	18						
RJ45 Category	5E = Cat 5E For Cat 6A applications consult factory						
RJ45 Orientation	1, 2, 3 or 4						
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F6 = Aluminum/Black Polymer Electrocoat F7 = Aluminum/Conductive Black Zinc Nickel F11 = Aluminum/Electroless Nickel						

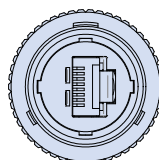
NOTES

- See Section A panel cutout dimensions and complete material and finish options

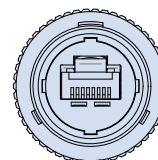
RJ45 Orientation Options (Plug Shown)



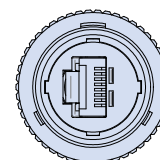
Code 1



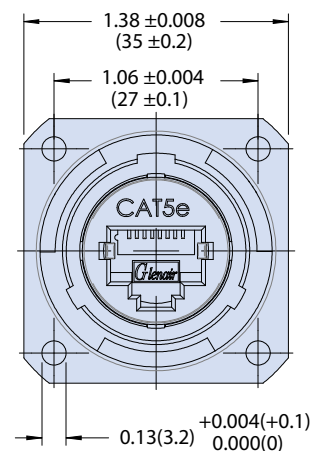
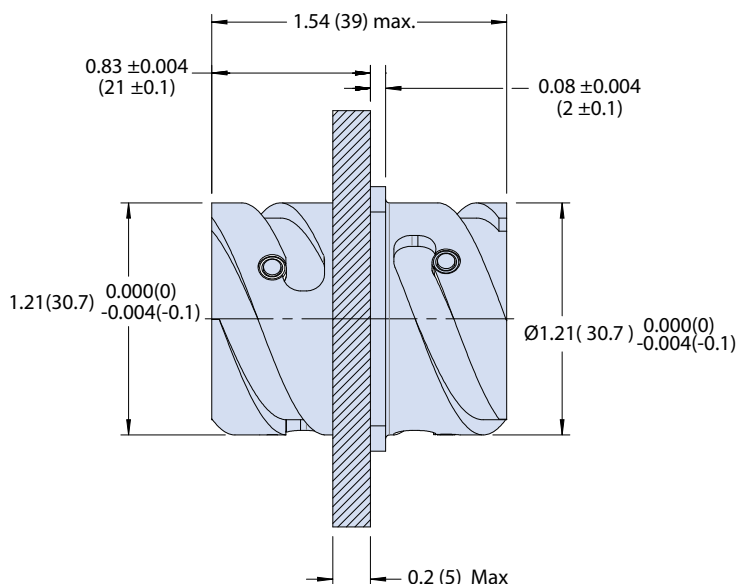
Code 2



Code 3



Code 4

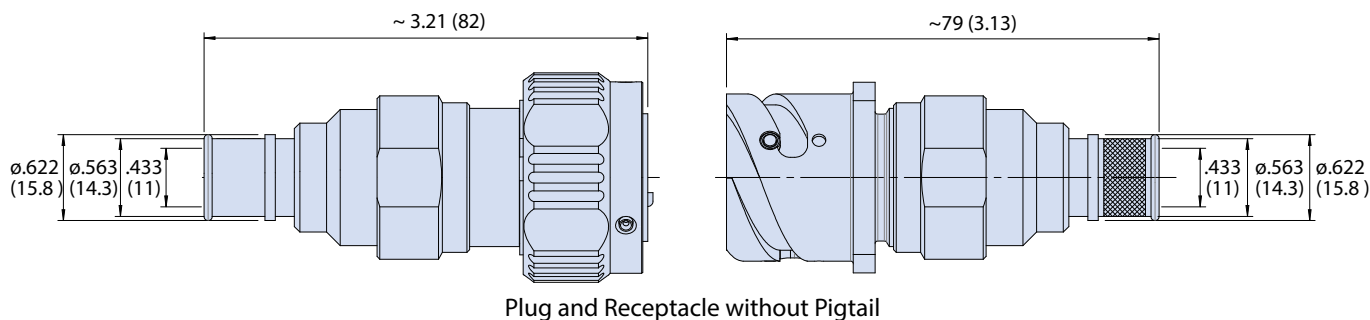




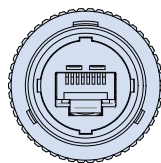
RJ45 CAT 5E ETHERNET Series ITS (5015 type) Reverse-Bayonet ITS300H Connector and Backshell with Banding Porch and Shrink Boot Groove



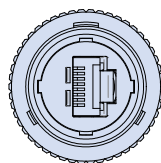
How to Order	
Sample Part Number	ITS300H 030 G 18 5E 1 ZL F7
Basic Number	ITS300H
Connector Style	030 = Rear Panel Mount Square Flange Receptacle 01 = InLine Receptacle 070 = Rear Panel Mount Jam Nut Receptacle 06 = Straight Plug Connector
Insert-to-Shell Grounding	G = Insert grounded to shell (for use with shielded cable) (Use only with G3, F11 or F7 finish) Omit = for none
Shell Size	18
RJ45 Category	5E = Cat 5E For Cat 6A applications consult factory
RJ45 Orientation	1, 2, 3 or 4
Backshell	ZL = With banding platform for direct attachment of cable shield and shrinkboot
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F6 = Aluminum/Black Polymer Electrocoat F7 = Aluminum/Conductive Black Zinc Nickel F11 = Aluminum/Electroless Nickel



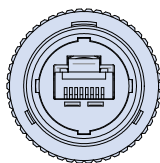
RJ45 Orientation Options (Plug Shown)



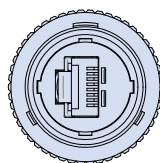
Code 1



Code 2



Code 3



Code 4

NOTES

1. See Section A panel cutout dimensions

HEAT SHRINK BOOT



Glenair P/N : **770-004S903W2**

Must be ordered separately

Type 9 flexible polyolefin short profile boots have an operating temperature range of -40°C to 100°C and provide very good resistance to fuels, oils and solvents. These boots fit most standard boot adapters for circular connectors and are specifically designed for low temperature rated CAT5e and USB cables.

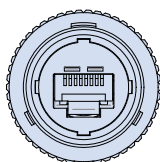


RJ45 CAT 5E ETHERNET Series ITS (5015 type) Reverse-Bayonet ITS300H Connector and Backshell with Pigtail

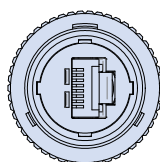


How to Order									
Sample Part Number		ITS300H	030	G	18	5E	1	ZL	0.5 F7
Basic Number	ITS300H								
Connector Style ¹	030 = Rear Panel Mount Square Flange Receptacle 01 = InLine Receptacle 070 = Rear Panel Mount Jam Nut Receptacle 06 = Straight Plug Connector								
Insert-to-Shell Grounding	G = Insert grounded to shell (for use with shielded cable) (Use only with G3, F11 or F7 finish) Omit = for none								
Shell Size	18								
RJ45 Category	5E = Cat 5E For Cat 6A applications consult factory								
RJ45 Orientation	1, 2, 3 or 4								
Backshell	ZL = With banding platform for direct attachment of cable shield and shrinkboot pre-installed								
Cable Length	0.5 = 20 inch (.5 mt) increments*								
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F6 = Aluminum/Black Polymer Electrocoat F7 = Aluminum/Conductive Black Zinc Nickel F11 = Aluminum/Electroless Nickel								

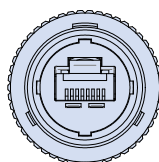
RJ45 Orientation Options (Plug Shown)



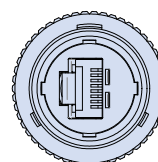
Code 1



Code 2

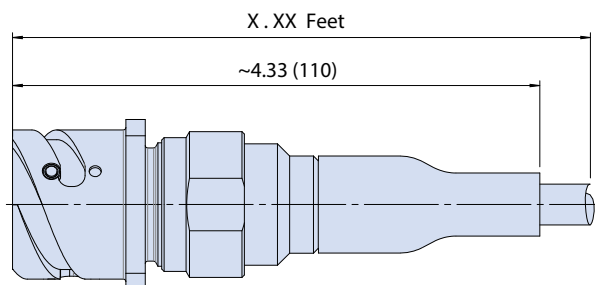
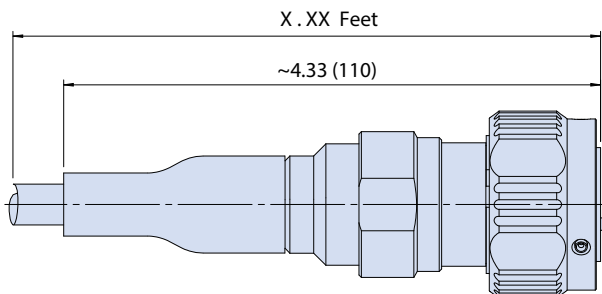


Code 3



Code 4

Plug and Receptacle with Pigtail



NOTES

1. See Section A panel cutout dimensions

* Cable length to be ordered in 20in (0.5 mt) increments

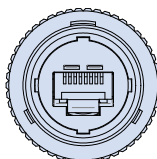


RJ45 CAT 5E ETHERNET Series ITS (5015 type) Reverse-Bayonet ITS300H Connector and Backshell with Internal Metric Threads

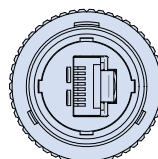


How to Order									
Sample Part Number		ITS300H	030	G	18	5E	1	M	F7
Basic Number	ITS300H								
Connector Style¹	030 = Rear Panel Mount Square Flange Receptacle 01 = InLine Receptacle 070 = Rear Panel Mount Jam Nut Receptacle 06 = Straight Plug Connector								
Insert-to-Shell Grounding	G = Insert grounded to shell (for use with shielded cable) (Use only with G3, F11 or F7 finish) Omit = for none								
Shell Size	18								
RJ45 Category	5E = Cat 5E For Cat 6A applications consult factory								
RJ45 Orientation	1, 2, 3 or 4								
Backshell with Internal Thread	M = M16 x 1.5 PG = PG9								
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F7 = Aluminum/Conductive Black Zinc Nickel F6 = Aluminum/Black Polymer Electrocoat F11 = Aluminum/Electroless Nickel								

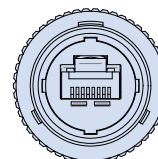
RJ45 Orientation Options (Plug Shown)



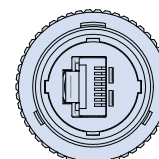
Code 1



Code 2

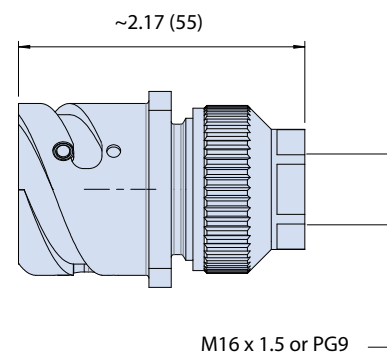
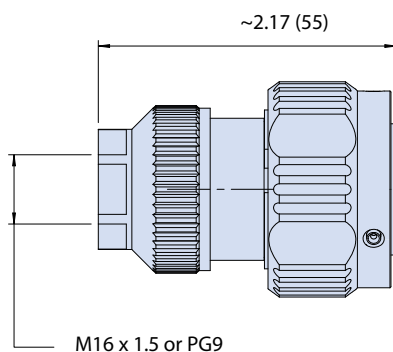


Code 3



Code 4

Plug and Receptacle without Cable Gland
(Other Backshells option are available, please consult the factory)



NOTES

1. See Section A panel cutout dimensions



RJ45 CAT 5E ETHERNET Series ITS (5015 type) Reverse-Bayonet ITS300H Connector and Backshell with Metallic Cable Gland, with or without Pigtails



How to Order									
Sample Part Number		ITS300H	030	G	18	5E	1	MS1	0.5 F6
Basic Number	ITS300H								
Connector Style¹	030 = Rear Panel Mount Square Flange Receptacle 01 = InLine Receptacle 070 = Rear Panel Mount Jam Nut Receptacle 06 = Straight Plug Connector								
Insert-to-Shell Grounding	G = Insert grounded to shell (for use with shielded cable) (Use only with G3, F11 or F7 finish) Omit = for none								
Shell Size	18								
RJ45 Category	5E = Cat 5E For Cat 6A applications consult factory								
RJ45 Orientation	1, 2, 3 or 4								
Metallic Cable Gland	See Metallic Cable Gland Table								
Cable Length	0.5 = 0.5 meter (20 inch) increments Omit for none								
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F6 = Aluminum/Black Polymer Electrocoat F7 = Aluminum/Conductive Black Zinc Nickel F11 = Aluminum/Electroless Nickel								



Metallic Cable Gland		
Type	Cable Range in(mm)	Shield
M1	.24-.31 (6 - 8)	No
M2	.24-.31 (6 - 8)	No
MS1	.24-.31 (6 - 8)	Yes
MS2	.31-.40 (8 - 10)	Yes

NOTES

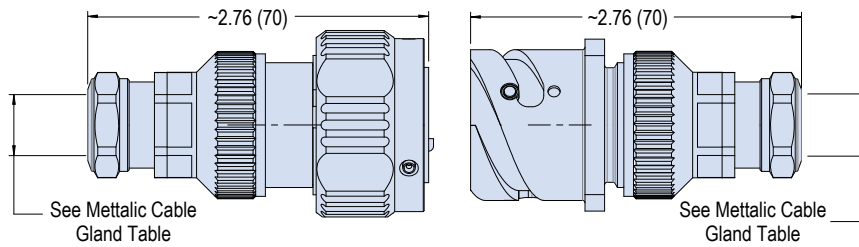
1. See Section A panel cutout dimensions



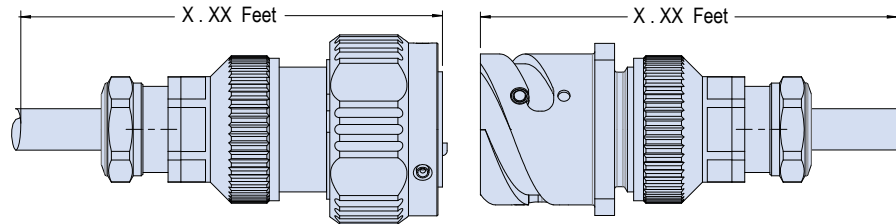
RJ45 CAT 5E ETHERNET Series ITS (5015 type) Reverse-Bayonet ITS300H Connector and Backshell with Metallic Cable Gland, with or without Pigtails



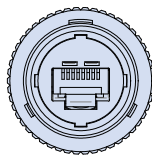
PLUG AND RECEPTACLE WITHOUT PIGTAIL



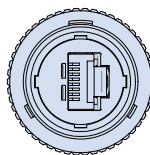
PLUG AND RECEPTACLE WITH PIGTAIL



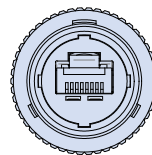
RJ45 Orientation Options (Plug Shown)



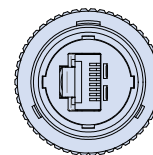
Code 1



Code 2



Code 3



Code 4

MIL-DTL-5015 TYPE
FIELD-READY
USB 2.0

SUPERSEAL™

Rugged environmental 5015 intermountable reverse bayonet connectors with IP67 sealing, robust insert-to-shell grounding, and complete range of wire, cable, and PCB terminations



Series ITS SuperSeal™ Advantages

- Intermountable 5015 style reverse-bayonet connectors for heavy-duty industrial and transportation applications
- Superior sealing—IP67 open face and IP68 mated — for complete system protection against water, sand and dust
- Highly durable USB design, including enhanced operating temperature, increased life-cycle, and rugged vibration and shock performance
- Crimp, solder-cup, PC-tail, and wire termination options
- USB 2.0 plug and receptacle versions
- Available backshells provide strain-relief and environmental protection



Glenair, Inc.
1211 Air Way
Glendale, CA 91201-2497
818-247-6000
sales@glenair.com
www.glenair.com



USB 2.0 TYPE A
Series ITS (5015 intermountable)
Reverse Bayonet Coupling
Product Selection Guide



ITS340

Page E-2

SuperSeal™ Coupler with Accessory Threads and USB Male-to-Female (Plug) or Female-to-Female (Receptacle).



ITS342

Page E-4

SuperSeal™ Receptacle with USB Female Interface to PC Tail Termination.



ITS343

Page E-5

SuperSeal™ Receptacle with USB Female Interface to Solder Cup Termination.



ITS345

Page E-6

SuperSeal™ Connectors with Accessory Threads and USB Male (Plug) or Female (Receptacle) to Crimp Removable Contacts.



ITS370

Page E-8

SuperSeal™ Feedthrough Receptacle with USB Female-to-Female Interface.



ITS340H

Page E-9

SuperSeal™ Connector and Backshell with Accessory Options.



USB 2.0 TYPE A

Series ITS (5015 type) Reverse-Bayonet



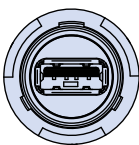
ITS340 Coupler with Accessory Threads and USB
Male-to-Female (Plug) or Female-to-Female (Receptacle)



How to Order								
Sample Part Number	ITS340	030	16	2	A	A	H	F6
Basic Number	ITS340							
Connector Style ¹	06 = Plug with Accessory Thread 01 = InLine Receptacle with Accessory Thread 070 = Rear Panel Mount Jam Nut Receptacle with Accessory Thread 030 = Rear Panel Mount Square Flange Receptacle with Accessory Thread							
Shell Size	16							
USB Performance	2 = 2.0							
USB Front Interface Type	A = Type A							
USB Rear Interface Type	A = Type A							
USB Orientation	H = Horizontal V = Vertical							
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F6 = Aluminum/Black Polymer Electrocoat F7 = Aluminum/Conductive Black Zinc Nickel F11 = Aluminum/Electroless Nickel							

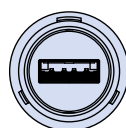
USB Orientation Options

Receptacle



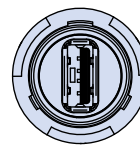
Horizontal

Plug



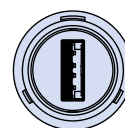
Horizontal

Receptacle



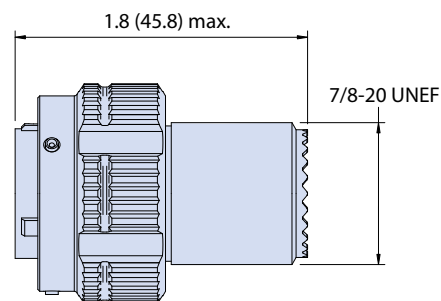
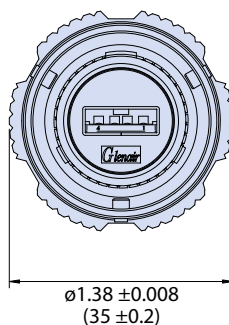
Vertical

Plug



Vertical

06 - PLUG WITH ACCESSORY THREADS



NOTES

1. See Section A for panel cutout dimensions and finish plating options



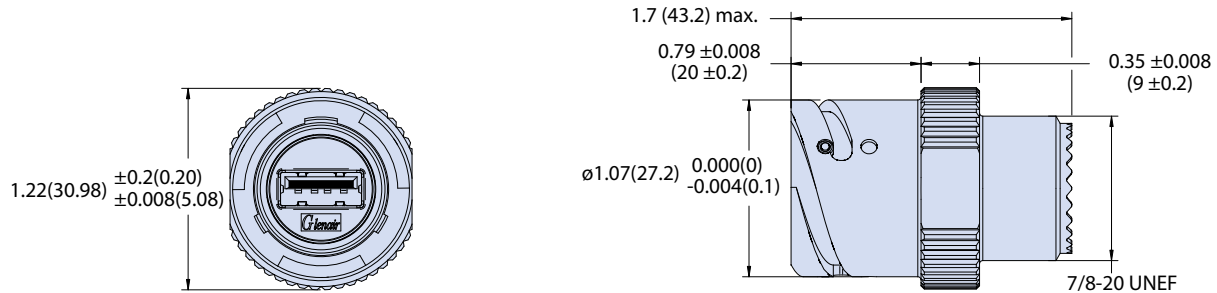
USB 2.0 TYPE A

Series ITS (5015 type) Reverse-Bayonet

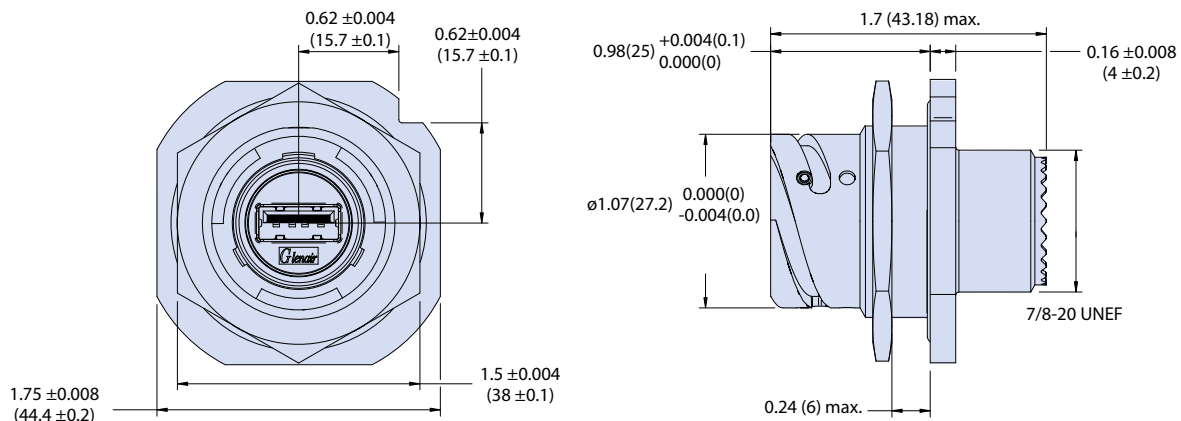


ITS340 Coupler with Accessory Threads and USB
Male-to-Female (Plug) or Female-to-Female (Receptacle)

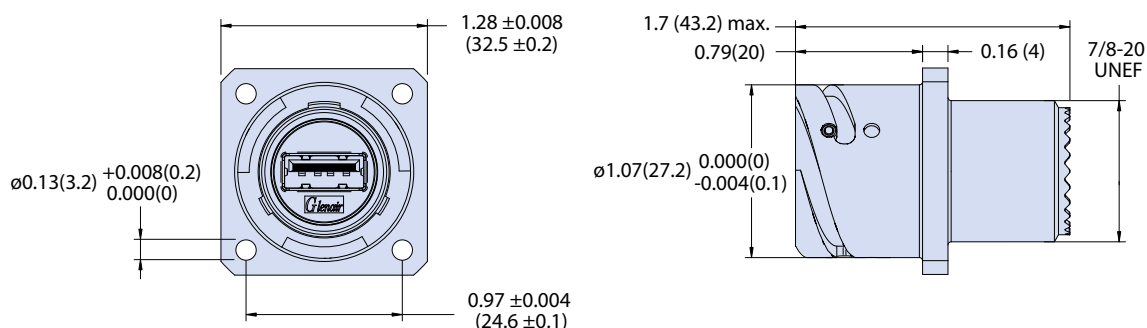
01 - INLINE RECEPTACLE WITH ACCESSORY THREADS



070 - REAR PANEL MOUNT JAM NUT RECEPTACLE WITH ACCESSORY THREADS



030 - REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE WITH ACCESSORY THREADS





USB 2.0 TYPE A

Series ITS (5015 type) Reverse-Bayonet



ITS342 Receptacle with USB

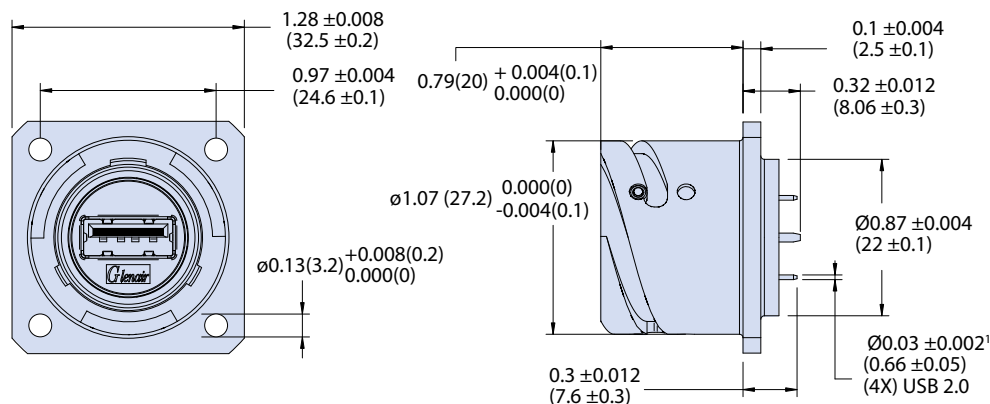
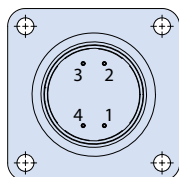
Female Interface to PC Tail Termination



How to Order							
Sample Part Number	ITS342	03	16	2	A	H	F6
Basic Number	ITS342						
Connector Style¹	03 = Rear Panel Mount Square Flange Receptacle 07 = Rear Panel Mount Jam Nut Receptacle						
Shell Size	16						
USB Performance	2 = 2.0						
USB Interface Type	A = Type A						
USB Orientation	H = Horizontal V = Vertical						
Material/Finish	Omit for Al/Cadmium, Olive Drab (G3) F7 = Al/Conductive Black Zinc Nickel F6 = Al/Black Polymer Electrocoat F11 = Al/Electroless Nickel						

03 - REAR PANEL MOUNT RECEPTACLE

Rear View
Horizontal USB Orientation
Shown USB 2.0



USB Orientation
Options

HORIZONTAL

Receptacle



Plug



VERTICAL

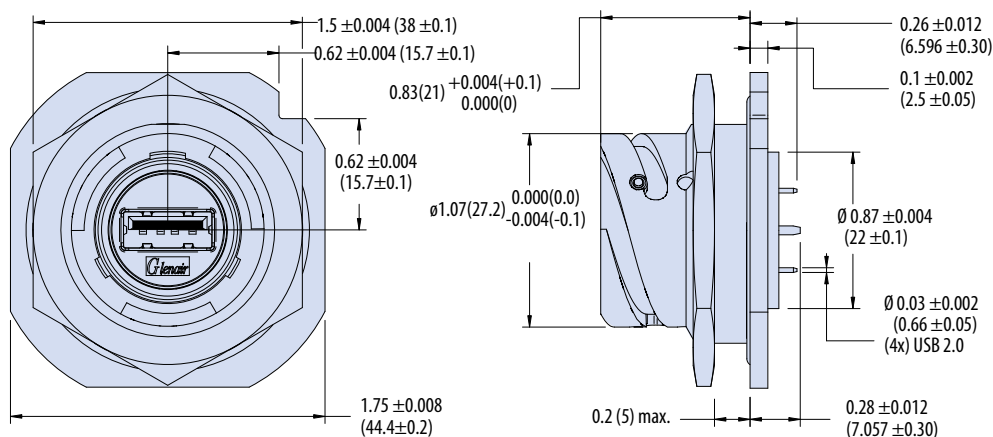
Receptacle



Plug

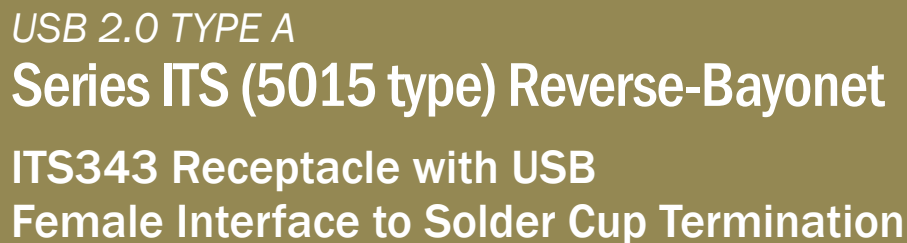


07 - REAR PANEL MOUNT JAM NUT RECEPTACLE



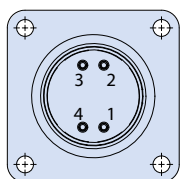
NOTES

1. See Section A for panel cutout dimensions, PCB footprints and complete finish options



How to Order							
Sample Part Number		ITS343	03	16	2	A	H F6
Basic Number	ITS343						
Connector Style	03 = Rear Panel Mount Square Flange Receptacle 07 = Rear Panel Mount Jam Nut Receptacle						
Shell Size	16						
USB Performance	2 = 2.0						
USB Interface Type	A = Type A						
USB Orientation	H = Horizontal V = Vertical						
Material/Finish	Omit for Al/Cadmium, Olive Drab (G3) F6 = Al/Black Polymer Electrocoat		F7 = Al/Conductive Black Zinc Nickel F11 = Al/Electroless Nickel				

Rear View
Horizontal USB Orientation
Shown USB 2.0



USB Orientation Options

HORIZONTAL



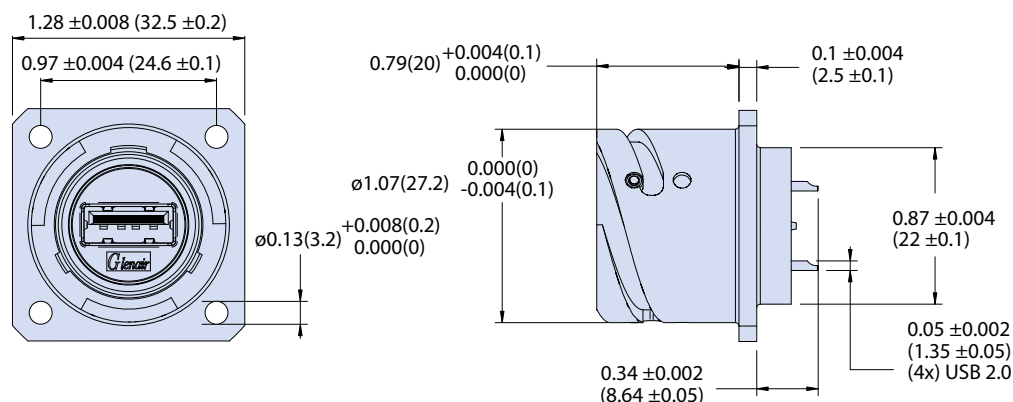
Plug



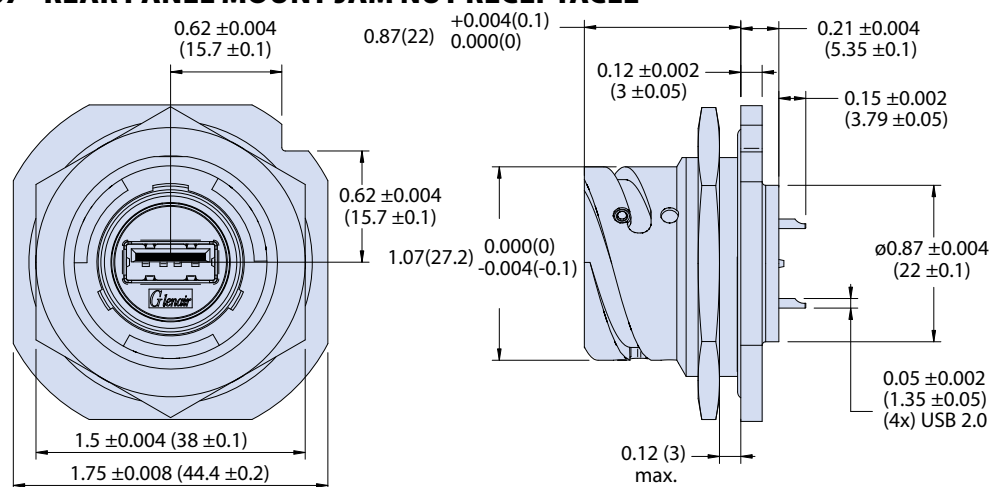
VERTICAL



Plug



07 - REAR PANEL MOUNT JAM NUT RECEPTACLE



1. See Section A for panel cutout dimensions and complete finish options



USB 2.0 TYPE A

Series ITS (5015 type) Reverse-Bayonet

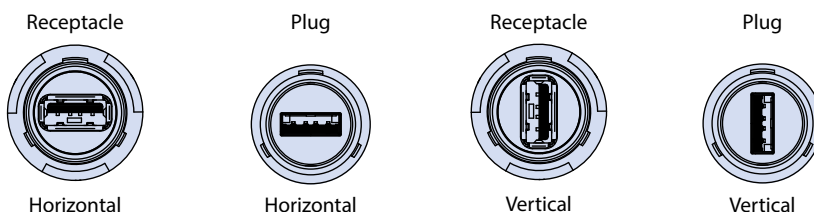


ITS345 Connectors with USB Male (Plug) or Female (Receptacle) to Crimp Removable Contacts



How to Order							
Sample Part Number	ITS345	06	16	2	A	H	F6
Basic Number	ITS345						
Connector Style ¹	06 = Plug with Accessory Threads 01 = InLine Receptacle w/ Accessory Thd 070 = Rear Panel Mount Jam Nut Receptacle with Accessory Thread 030 = Rear Panel Mount Square Flange Receptacle with Accessory Threads						
Shell Size	16						
USB Performance	2 = 2.0						
USB Interface Type	A = Type A						
USB Orientation	H = Horizontal V = Vertical						
Material/Finish	Omit for Al/Cadmium, Olive Drab (G3) F6 = Al/Black Polymer Electrocoat F7 = Al/Conductive Black Zinc Nickel F11 = Al/Electroless Nickel						

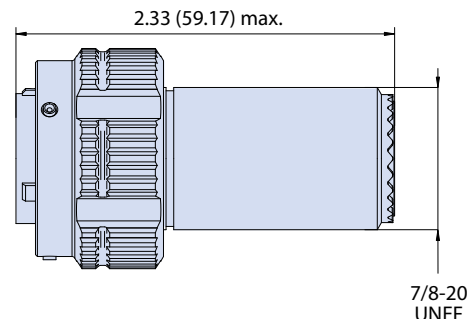
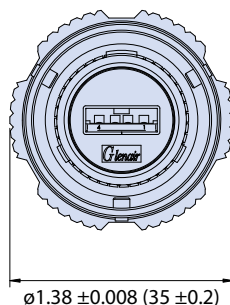
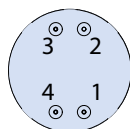
USB Orientation Options



06 - PLUG WITH ACCESSORY THREADS

Rear View

Horizontal USB Orientation
Shown USB 2.0 Type A Male



NOTES

- See Section A for panel cutout dimensions



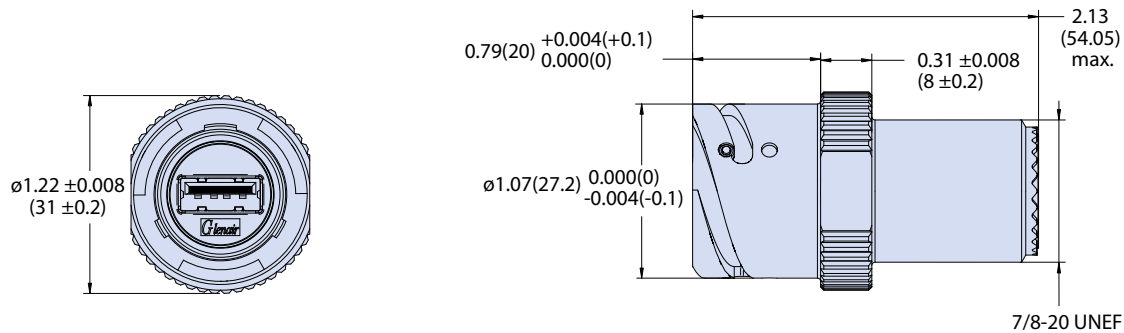
USB 2.0 TYPE A

Series ITS (5015 type) Reverse-Bayonet

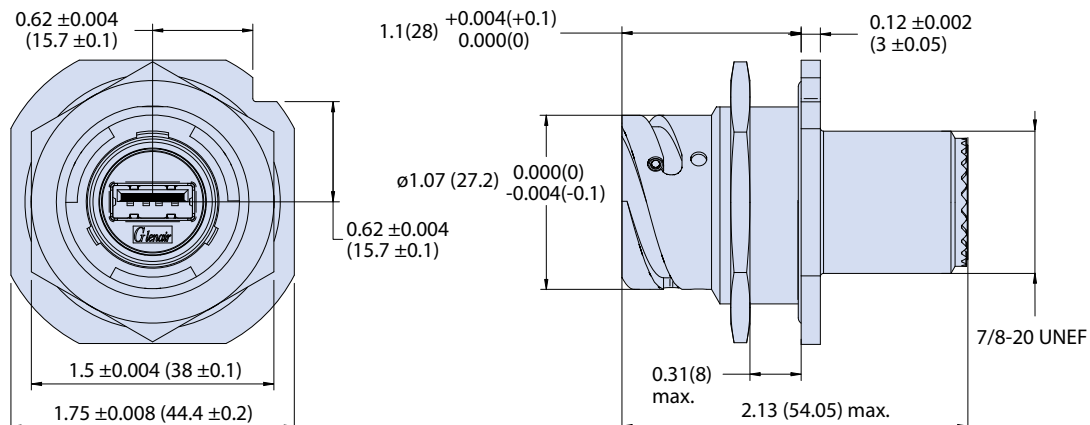


ITS345 Connectors with USB Male (Plug) or Female (Receptacle) to Crimp Removable Contacts

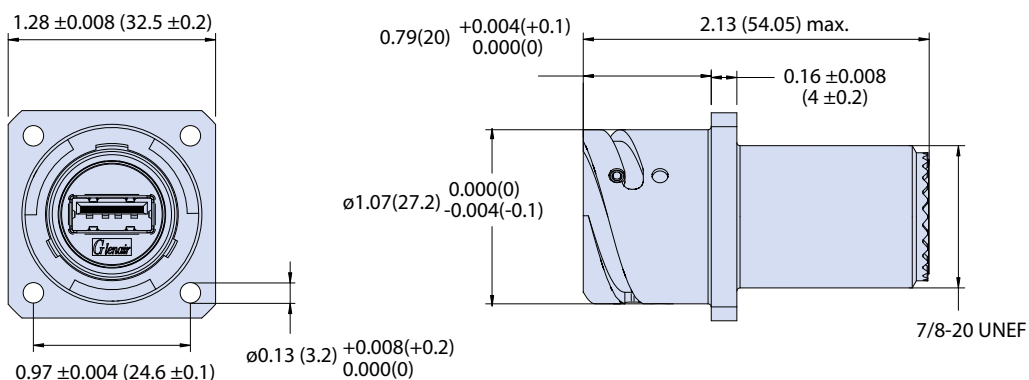
01 - INLINE RECEPTACLE WITH ACCESSORY THREADS



070 - REAR PANEL MOUNT JAM NUT RECEPTACLE WITH ACCESSORY THREADS



030 - REAR PANEL MOUNT RECEPTACLE WITH ACCESSORY THREADS





USB 2.0 TYPE A

Series ITS (5015 type) Reverse-Bayonet

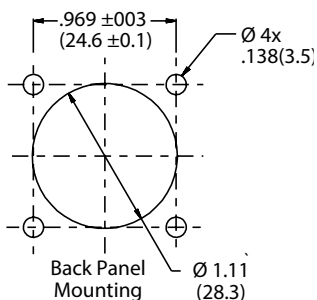


ITS370 Feedthrough Receptacle with USB Female-to-Female Interface



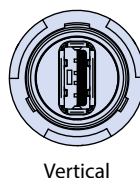
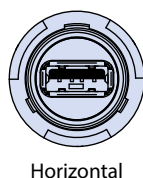
How to Order								
Sample Part Number	ITS370	03PP	16	2	A	A	H	F6
Basic Number	ITS370							
Connector Style ¹	03PP = Rear panel mount receptacle bulkhead feed through							
Shell Size	16							
USB Performance	2 = 2.0							
USB Front Interface Type	A = Type A							
USB Rear Interface Type	A = Type A							
USB Orientation	H = Horizontal V = Vertical							
Material/Finish	Omit for Al/Cadmium, Olive Drab (G3) F6 = Black Polymer Electrocoat F7 = Conductive Black Zinc Nickel F11 = Electroless Nickel							

Recommended Panel Cutout



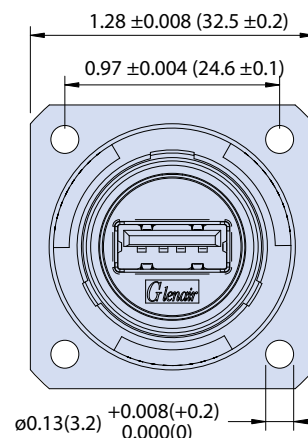
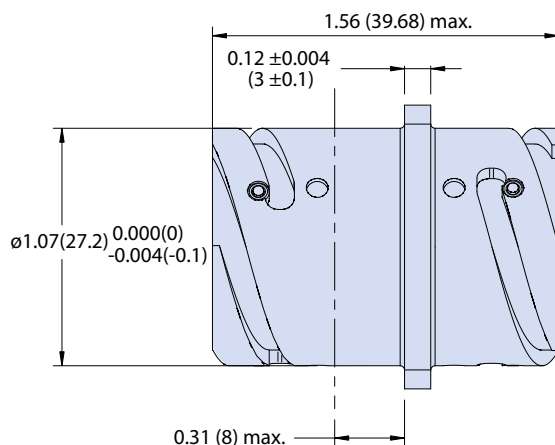
Square Flange Mount
Recommended Mounting Holes
Panel Thickness .315 (8) Max

USB RECEPTACLE ORIENTATION OPTIONS



NOTES

- See Section A for panel cutout dimensions



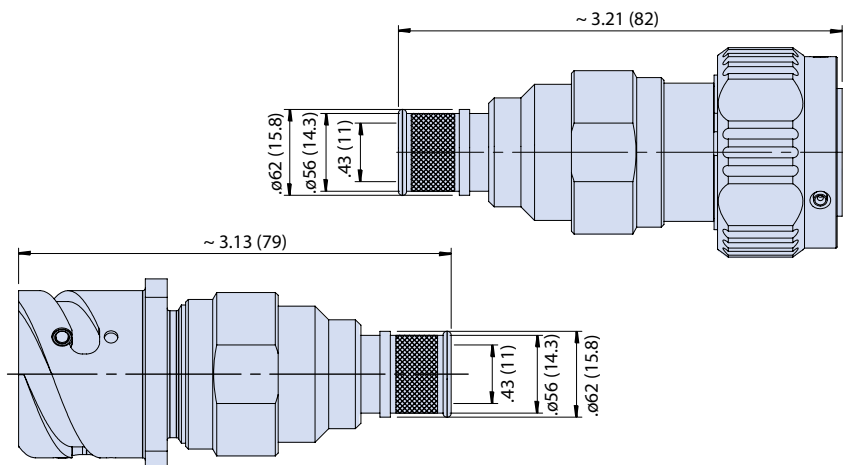


USB 2.0 TYPE A Series ITS (5015 type) Reverse-Bayonet ITS340H Connector and Backshell with Banding Porch and Shrink Boot Groove



How to Order									
Sample Part Number		ITS340H	030	16	2	A	A	H	ZL F6
Basic Number	ITS340H								
Connector Style¹	06 = Plug with Accessory Thread 01 = InLine Receptacle with Accessory Thread 070 = Rear Panel Mount Jam Nut Receptacle with Accessory Thread 030 = Rear Panel Mount Square Flange Receptacle with Accessory Thread								
Shell Size	16								
USB Performance	2 = 2.0								
USB Front Interface Type	A = Type A								
USB Rear Interface Type	A = Type A								
USB Orientation	H = Horizontal V = Vertical								
Backshell	ZL = With banding platform for direct attachment of cable shield and shrink boot								
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F7 = Aluminum/Conductive Black Zinc Nickel F6 = Aluminum/Black Polymer Electrocoat F11 = Aluminum/Electroless Nickel								

Plug and Receptacle without Pigtail



HEAT SHRINK BOOT

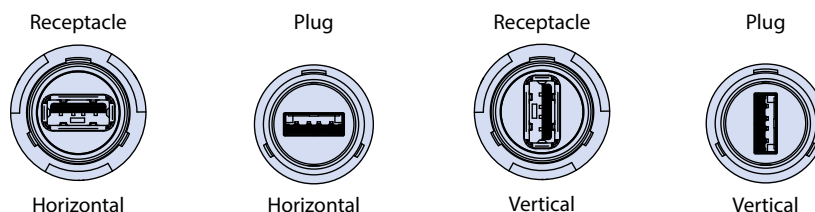


Glenair P/N : **770-004S903W2**

Must be ordered separately

Type 9 flexible polyolefin short profile boots have an operating temperature range of -40°C to 100°C and provide very good resistance to fuels, oils and solvents. These boots fit most standard boot adapters for circular connectors and are specifically designed for low temperature rated CAT5e and USB cables.

USB Orientation Options



NOTES

- See Section A for panel cutout dimensions and complete finish options



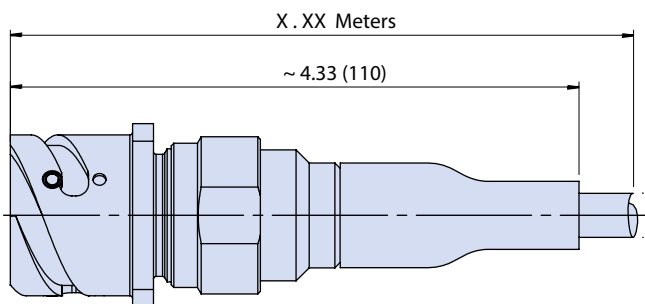
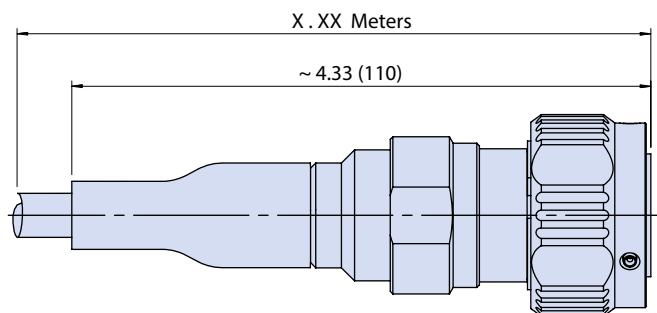
USB 2.0 TYPE A

Series ITS (5015 type) Reverse-Bayonet



ITS340H Connector and Backshell with Pigtail

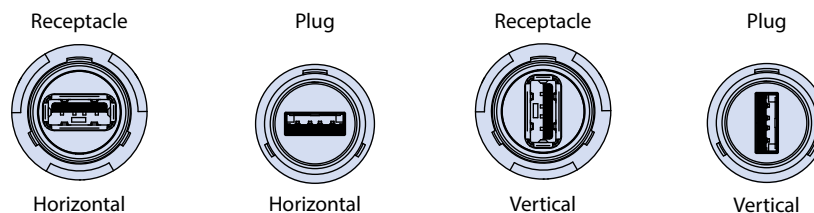
How to Order												
Sample Part Number			ITS340H	030	16	2	A	A	H	ZL	0.5	F6
Basic Number	ITS340H											
Connector Style¹	030 = Rear Panel Mount Square Flange Receptacle with Accessory Threads 01 = InLine Receptacle with Accessory Threads 070 = Rear Panel Mount Jam Nut Receptacle with Accessory Threads 06 = Straight Plug Connector with Accessory Threads											
Shell Size	16											
USB Performance	2 = 2.0											
USB Front Interface Type	A = Type A											
USB Rear Interface Type	A = Type A											
USB Orientation	H = Horizontal V = Vertical											
Backshell	ZL = Backshell with banding platform for direct attachment of cable shield and shrink boot pre-installed											
Cable Length	0.5 = 0.5 meter pigtail (20 inches)*; See High Data Rate Cable P/N 963-012											
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F6 = Aluminum/Black Polymer Electrocoat			F7 = Aluminum/Conductive Black Zinc Nickel F11 = Aluminum/Electroless Nickel								



*Cable length to be ordered in 0.5 mt (20 inch) increments

Plug and Receptacle with Pigtail

USB Orientation Options



NOTES

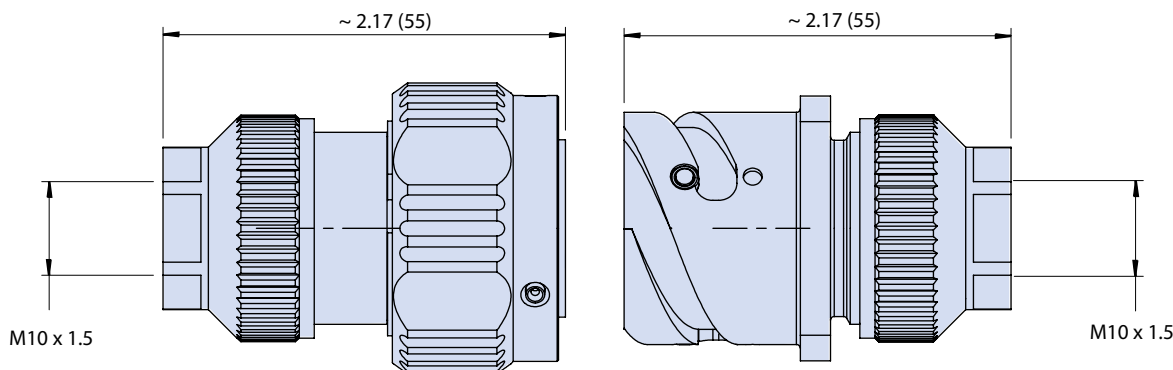
1. See Section A for panel cutout dimensions and complete finish options



USB 2.0 TYPE A Series ITS (5015 type) Reverse-Bayonet ITS340H Connector with Internal Metric Thread Backshell

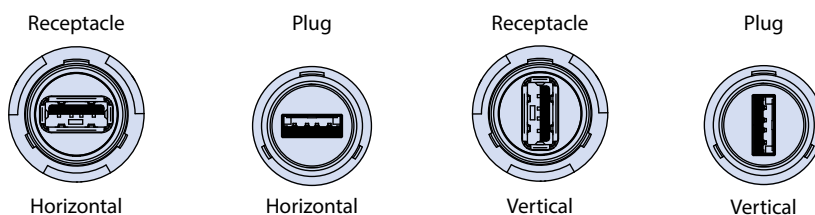


How to Order									
Sample Part Number	ITS340H	030	16	2	A	A	H	M	F6
Basic Number	ITS340H								
Connector Style¹	030 = Rear Panel Mount Square Flange Receptacle with Accessory Threads 01 = InLine Receptacle with Accessory Threads 070 = Rear Panel Mount Jam Nut Receptacle with Accessory Threads 06 = Straight Plug Connector with Accessory Threads								
Shell Size	16								
USB Performance	2 = 2.0								
USB Front Interface Type	A = Type A								
USB Rear Interface Type	A = Type A								
USB Orientation	H = Horizontal V = Vertical								
Backshell	M = Backshell with metric thread								
Material/Finish	Omit for Aluminum/Cadmium Olive Drab (G3) F7 = Aluminum/Conductive Black Zinc Nickel F6 = Aluminum/Black Polymer Electrocoat F11 = Aluminum/Electroless Nickel								



Plug and Receptacle without Cable Gland (Other Backshells option are available, please consult the factory)

USB Orientation Options



NOTES

1. See Section A for panel cutout dimensions and complete finish options



USB 2.0 TYPE A

Series ITS (5015 type) Reverse-Bayonet

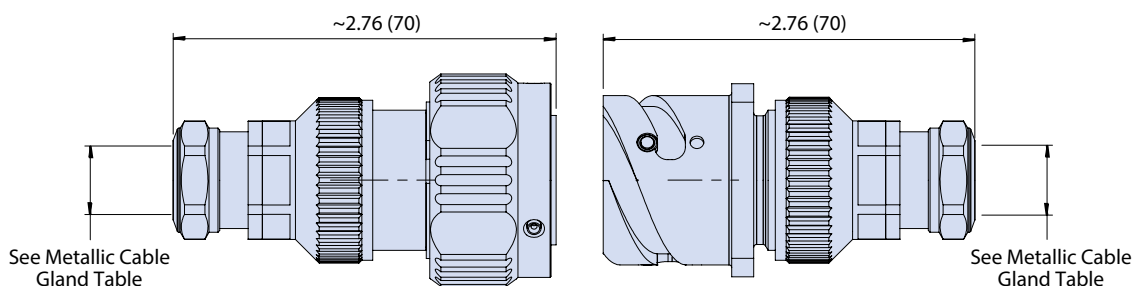


ITS340H Connector and Backshell with Metallic Cable Gland, with or without Pigtails

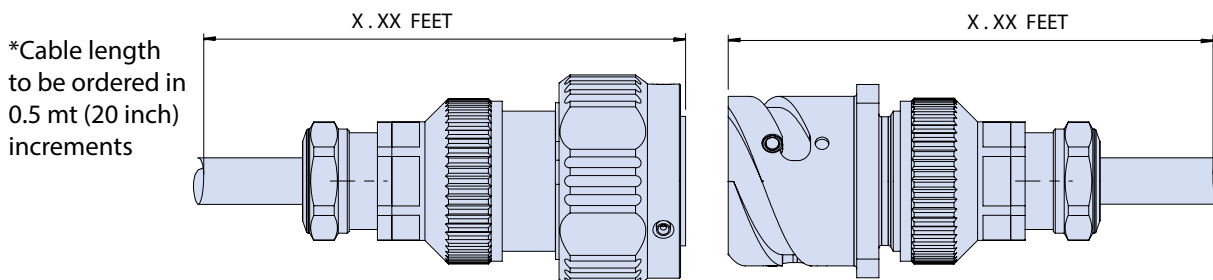
How to Order										
Sample Part Number	ITS340H	030	16	2	A	A	H	MS1	0.5	F6
Basic Number	ITS340H									
Connector Style¹	030 = Rear Panel Mount Square Flange Receptacle with Accessory Threads 01 = InLine Receptacle with Accessory Threads 070 = Rear Panel Mount Jam Nut Receptacle with Accessory Threads 06 = Straight Plug Connector with Accessory Threads									
Shell Size	16									
USB Performance	2 = 2.0									
USB Front Interface Type	A = Type A									
USB Rear Interface Type	A = Type A									
USB Orientation	H = Horizontal V = Vertical									
Metallic Cable Gland	See Metallic Cable Gland Table									
Cable Length	0.5 = 0.5 mt. (20 inch) pigtail Omit for None									
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F7 = Aluminum/Conductive Black Zinc Nickel F6 = Aluminum/Black Polymer Electrocoat F11 = Aluminum/Electroless Nickel									

NOTES

- See Section A for panel cutout dimensions and complete finish options

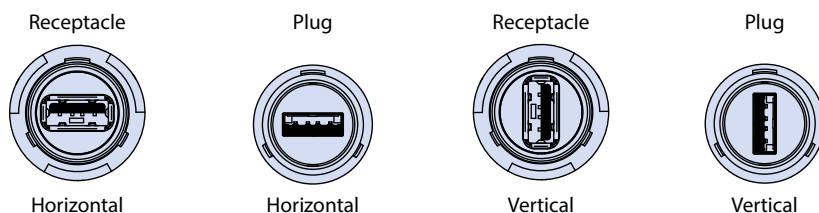


Plug and Receptacle without Pigtail



Plug and Receptacle with Pigtail

USB Orientation Options



Metallic Cable Gland

Type	Cable Range	Shield
M1	.12 - .16 (3 - 4)	No
M2	.16 - .24 (4 - 6)	No
MS1	.12 - .16 (3 - 4)	Yes
MS2	.16 - .24 (4 - 6)	Yes



RJ45 CAT 5E ETHERNET Series IPT (26482 Type) Bayonet Coupler

Product Selection Guide



IPT300

Page F-2

SuperSeal™ Coupler with Accessory Threads and RJ45 Plug-to-Jack (Plug) or Jack-to-Jack (Receptacle).



IPT301

Page F-4

SuperSeal™ Connector with Accessory Threads and RJ45 Plug (Plug) or Jack (Receptacle) to Crimp Removable Contacts.



IPT302

Page F-6

SuperSeal™ Receptacle with Jack to PC Tail Termination.



IPT303

Page F-7

SuperSeal™ Receptacle with Jack to Solder Cup Termination.



IPT330

Page F-8

SuperSeal™ Feedthrough Receptacle with Jack-to-Jack RJ45.



IPT300H

Page F-9

SuperSeal™ Connector and Backshell Options.



RJ45 CAT 5E ETHERNET

Series IPT (26482 Type) Bayonet Coupler

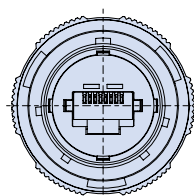


IPT300 Coupler with Accessory Threads and RJ45 Plug-to-Jack (Plug) or Jack-to-Jack (Receptacle)

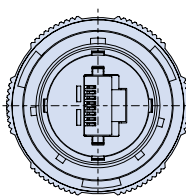


How to Order							
Sample Part Number	IPT300	00	G	18	5E	1	F7
Basic Number	IPT300						
Connector Style ¹	00 = Front Panel Mount Square Flange Receptacle 01 = In-Line Receptacle 070 = Rear Panel Mounting Jam Nut Receptacle 06 = Straight Plug						
Insert-to-Shell Grounding	G = Insert grounded to shell (for use with shielded cable) (Use only with G3, F11 or F7 finish) Omit for none						
Shell Size	18						
RJ45 Category ²	5E = Cat 5E For Cat 6A applications consult factory						
RJ45 Orientation	1,2,3 or 4						
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F6 = Aluminum/Black Polymer Electrocoat F7 = Aluminum/Conductive Black Zinc Nickel F11 = Aluminum/Electroless Nickel						

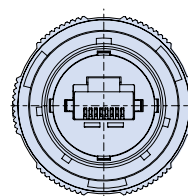
RJ45 Orientation Options (Plug Shown)



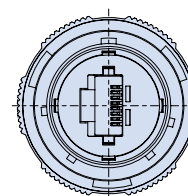
Code 1



Code 2

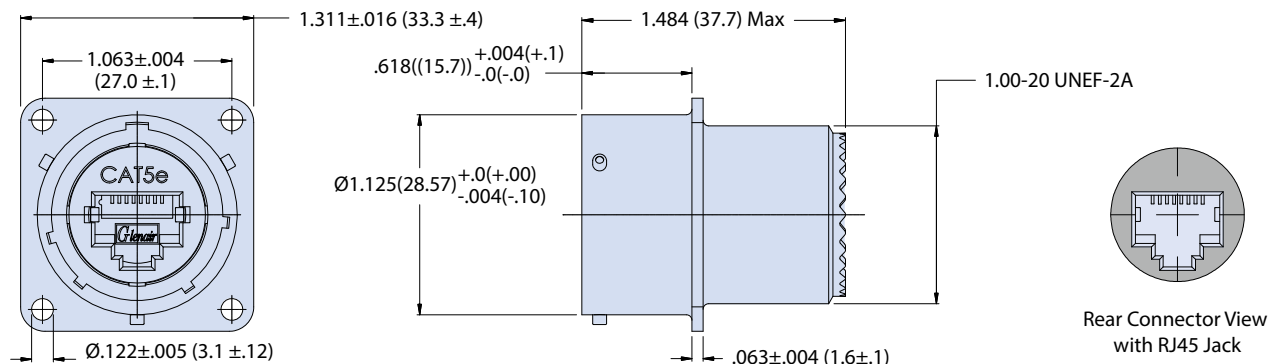


Code 3



Code 4

00 - FRONT PANEL MOUNT SQUARE FLANGE RECEPTACLE WITH ACCESSORY THREADS



NOTES

1. See Section A for recommended panel cut out dimensions
2. Plugs are plug/jack and receptacles are jack/jack



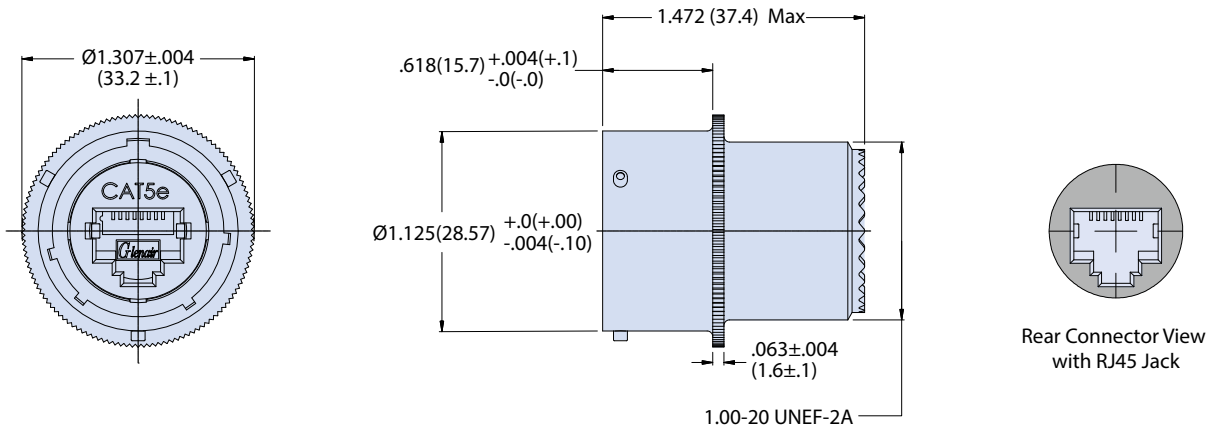
RJ45 CAT 5E ETHERNET

Series IPT (26482 Type) Bayonet Coupler

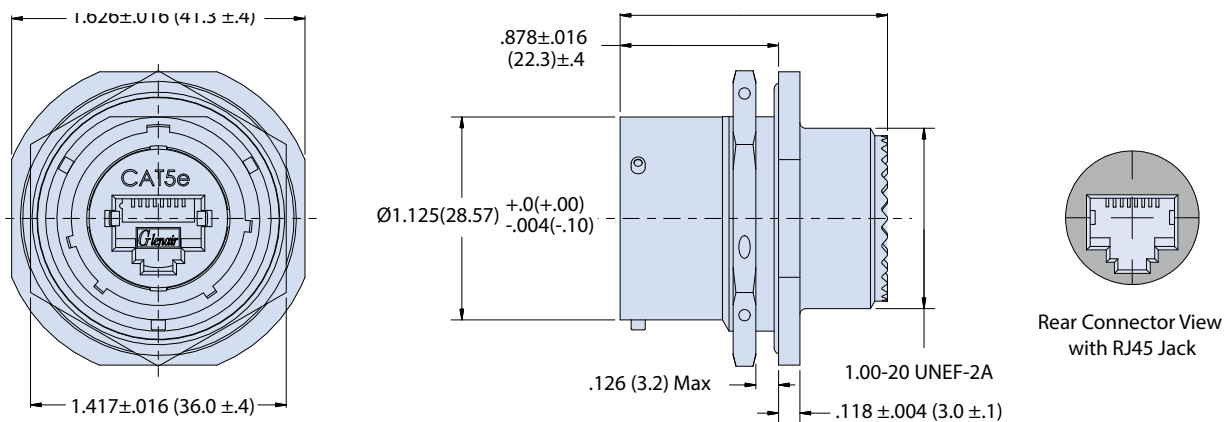


IPT300 Coupler with Accessory Threads and RJ45 Plug-to-Jack (Plug) or Jack-to-Jack (Receptacle)

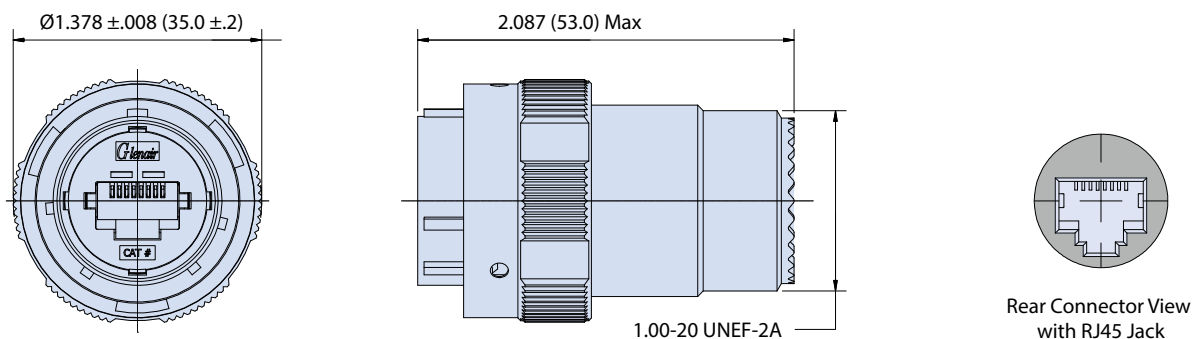
01 - INLINE RECEPTACLE WITH ACCESSORY THREADS



070 - REAR PANEL MOUNT JAM NUT RECEPTACLE WITH ACCESSORY THREADS



06 - PLUG WITH ACCESSORY THREADS





RJ45 CAT 5E ETHERNET

Series IPT (26482 Type) Bayonet Coupler

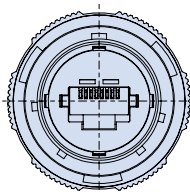


IPT301 Connector with Accessory Threads and RJ45 Plug (Plug) or Jack (Receptacle) to Crimp Removable Contacts

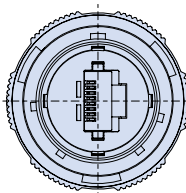


How to Order							
Sample Part Number		IPT301	00	G	18	5E	1 F7
Basic Number	IPT301						
Connector Style	00 = Front Panel Mount Square Flange Receptacle 01 = In-Line Receptacle 02 = Front Panel Square Flange Mount Receptacle 07 = Rear Panel Mount Jam Nut Receptacle 070 = Rear Panel Mounting Jam Nut Receptacle 06 = Straight Plug						
Insert-to-Shell Grounding	G = Insert grounded to shell (for use with shielded cable) (Use only with G3, F11 or F7 finish) Omit for none						
Shell Size	18						
RJ45 Category	5E = Cat 5E For Cat 6A applications consult factory						
RJ45 Orientation	1,2,3 or 4						
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F6 = Aluminum/Black Polymer Electrocoat F7 = Aluminum/Conductive Black Zinc Nickel F11 = Aluminum/Electroless Nickel						

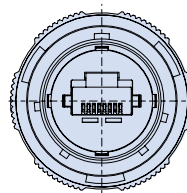
RJ45 Orientation Options (Plug Shown)



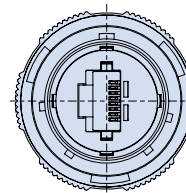
Code 1



Code 2



Code 3

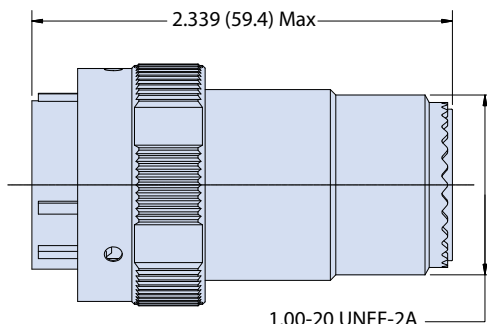
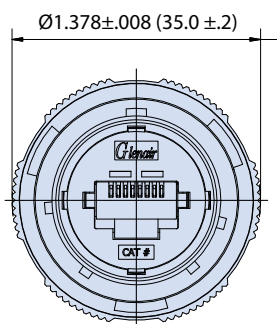


Code 4

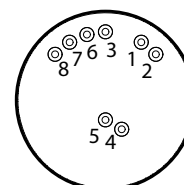
NOTES

- See Section A for recommended panel cut out dimensions

06 - PLUG WITH ACCESSORY THREADS



Crimp Layout (Code 1 Orientation Shown)





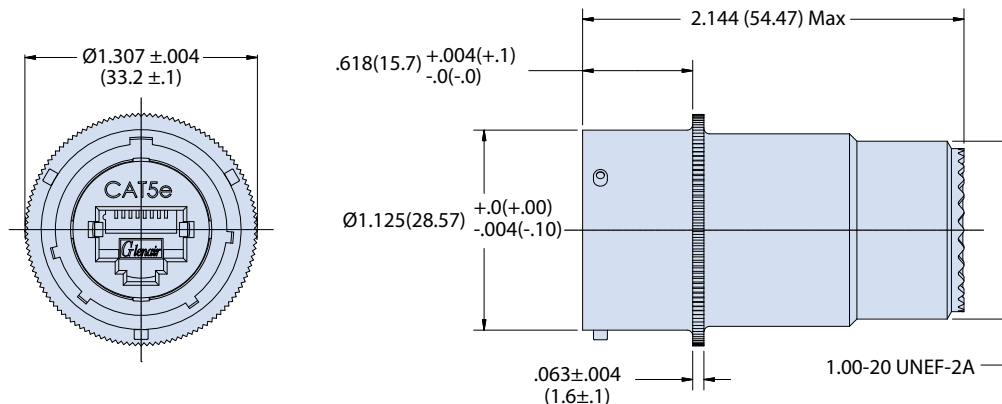
RJ45 CAT 5E ETHERNET

Series IPT (26482 Type) Bayonet Coupler

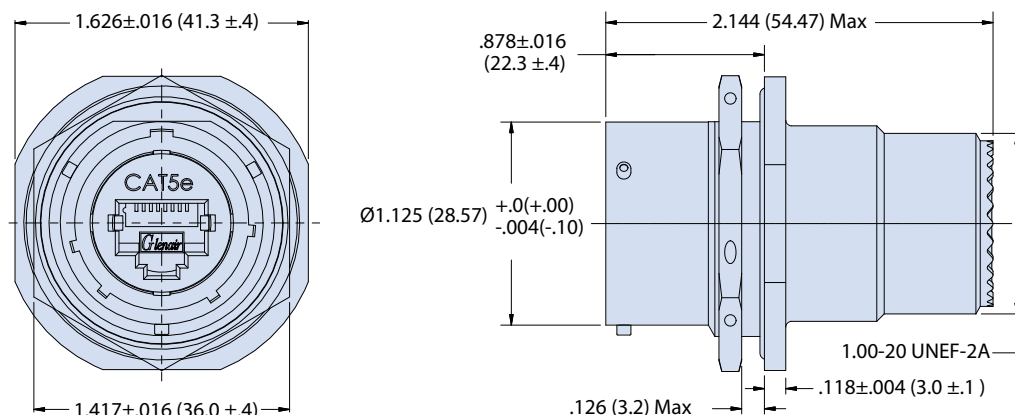


IPT301 Connector with Accessory Threads and RJ45 Plug (Plug) or Jack (Receptacle) to Crimp Removable Contacts

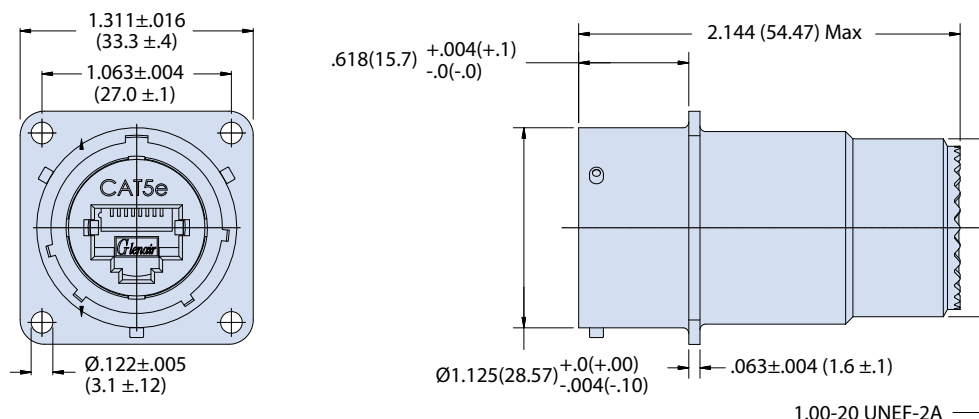
01 - INLINE RECEPTACLE WITH ACCESSORY THREADS



070 - REAR PANEL MOUNTING JAM NUT RECEPTACLE WITH ACCESSORY THREADS



00 - FRONT PANEL MOUNT SQUARE FLANGE RECEPTACLE WITH ACCESSORY THREADS





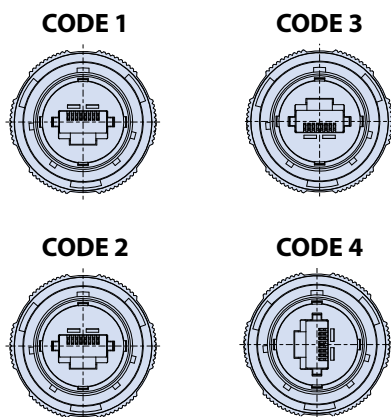
RJ45 CAT 5E ETHERNET Series IPT (26482 Type) Bayonet Coupler

IPT302 Receptacle with Jack to PC Tail Termination

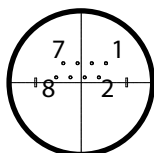


How to Order							
Sample Part Number	IPT302	02	G	18	5E	1	F7
Basic Number	IPT302						
Connector Style¹	02 = Front panel Mount Square Flange Receptacle 07 = Rear Panel Mount Jam Nut Receptacle						
Insert-to-Shell Grounding	G = Insert grounded to shell Omit for none (for use with shielded cable) (Use only with G3, F11 or F7 finish)						
Shell Size	18						
RJ45 Category²	5E = Cat 5E For Cat 6A applications consult factory						
RJ45 Orientation	1, 2, 3 or 4						
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F6 = Aluminum/Black Polymer Electrocoat F7 = Aluminum/Conductive Black Zinc Nickel F11 = Aluminum/Electroless Nickel						

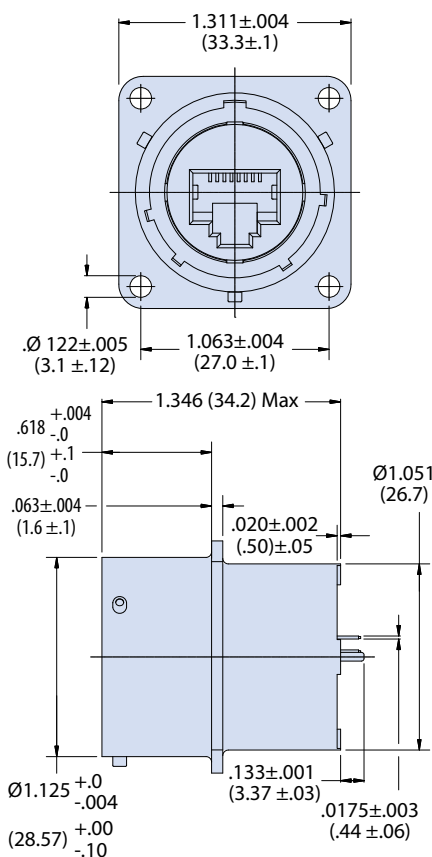
RJ45 Orientation Options (Plug Shown)



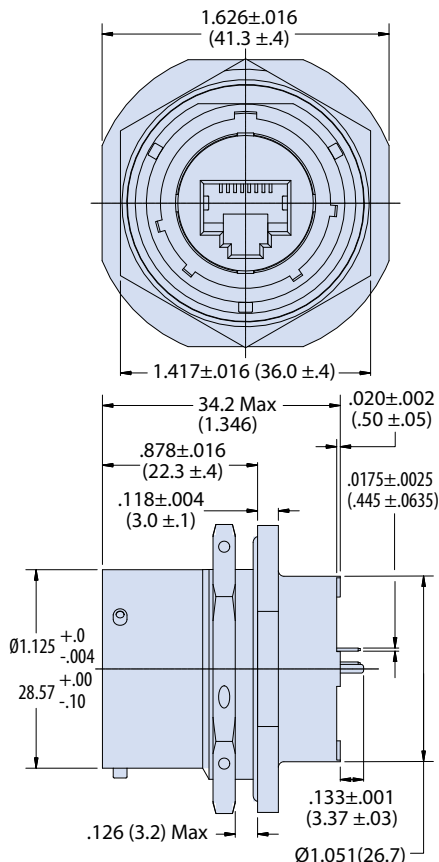
PC tail layout (Code 1 Orientation Shown)



02 - FRONT PANEL MOUNT SQUARE FLANGE RECEPTACLE



07 - REAR PANEL MOUNTING JAM NUT RECEPTACLE



NOTES

- See Section A for recommended panel cut out dimensions



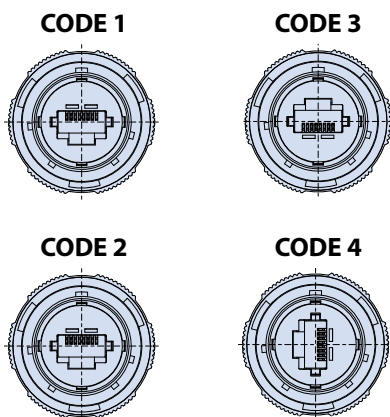
RJ45 CAT 5E ETHERNET Series IPT (26482 Type) Bayonet Coupler

IPT303 Receptacle with Jack to Solder Cup Termination

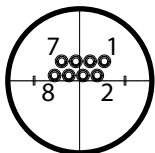


How to Order							
Sample Part Number	IPT303	02	G	18	5E	1	F7
Basic Number	IPT303						
Connector Style ¹	02 = Front Panel Square Flange Mount Receptacle 07 = Rear Panel Mount Jam Nut Receptacle						
Insert-to-Shell Grounding	G = Insert grounded to shell Omit for none (for use with shielded cable) (Use only with G3, F11 or F7 finish)						
Shell Size	18						
RJ45 Category ²	5E = Cat 5E For Cat 6A applications consult factory						
RJ45 Orientation	1,2,3 or 4						
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F6 = Aluminum/Black Polymer Electrocoat F7 = Aluminum/Conductive Black Zinc Nickel F11 = Aluminum/Electroless Nickel						

RJ45 Orientation Options (Plug Shown)



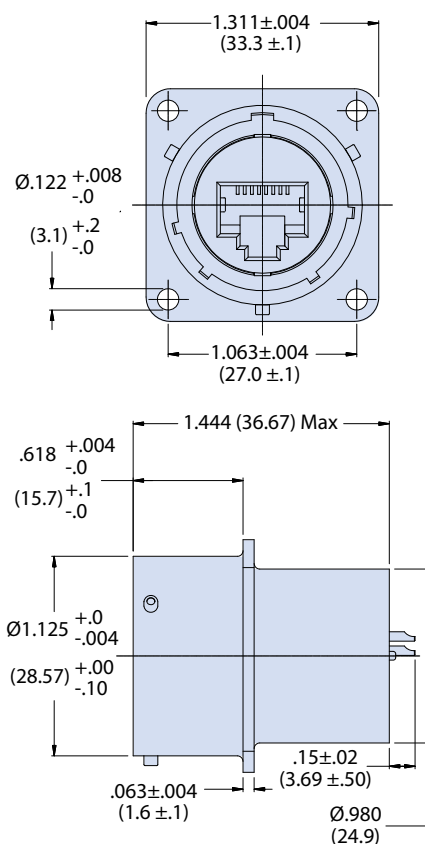
Solder cup layout (Code 1 Orientation Shown)



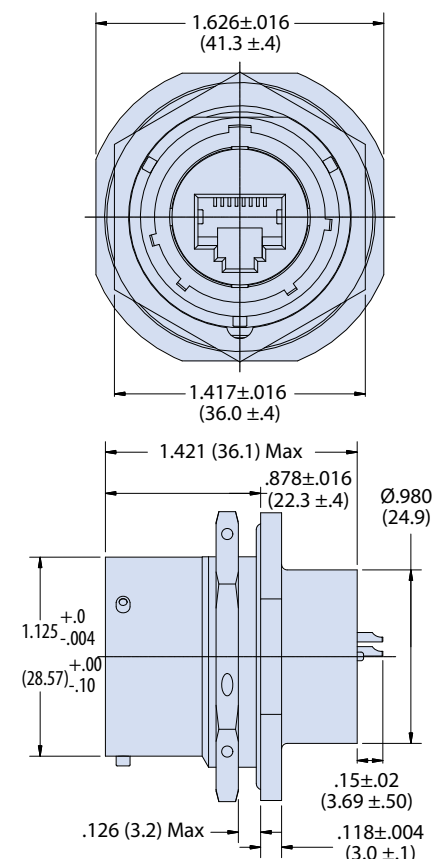
NOTES

- See Section A for recommended panel cut out dimensions and solder cup layout

02 - FRONT PANEL MOUNT SQUARE FLANGE RECEPTACLE



07 - REAR PANEL MOUNTING JAM NUT RECEPTACLE





RJ45 CAT 5E ETHERNET

Series IPT (26482 Type) Bayonet Coupler



IPT330 Feedthrough Receptacle with Jack-to-Jack RJ45

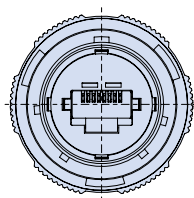


How to Order							
Sample Part Number	IPT330	02PP	G	18	5E	1	F7
Basic Number	IPT330						
Connector Style ¹	02PP = Front Panel Mount Square Flange receptacle						
Insert-to-Shell Grounding	G = Insert grounded to shell; Omit for none (for use with shielded cable) (Use only with G3, F11 or F7 finish)						
Shell Size	18						
RJ45 Category ²	5E = Cat 5E For Cat 6A applications consult factory						
RJ45 Orientation	1,2,3 or 4						
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F6 = Aluminum/Black Polymer Electrocoat F7 = Aluminum/Conductive Black Zinc Nickel F11 = Aluminum/Electroless Nickel						

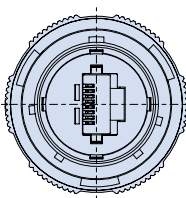
NOTES

1. See Section A for recommended panel cut out dimensions
2. Feedthrough is jack/jack layout

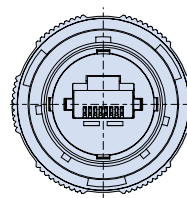
RJ45 Orientation Options (Plug Shown)



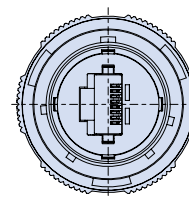
Code 1



Code 2

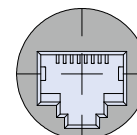
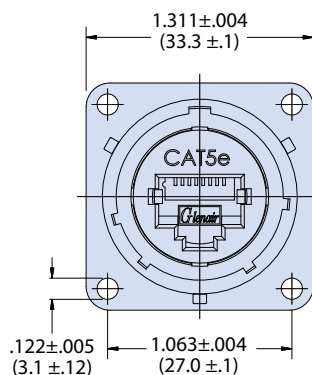
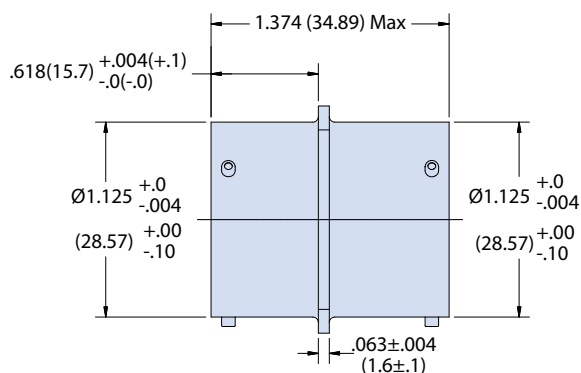


Code 3



Code 4

02 - FRONT PANEL SQUARE FLANGE MOUNT RECEPTACLE



Rear Connector View with RJ45 Jack



RJ45 CAT 5E ETHERNET Series IPT (26482 Type) Bayonet Coupler

IPT300H Connector and Backshell with Banding Porch and Boot Groove

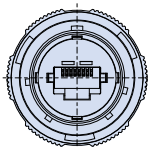


How to Order									
Sample Part Number		IPT300H	00	G	18	5E	1	ZL	F7
Basic Number	IPT300H								
Connector Style ¹	00 = Front Panel Mount Square Flange Receptacle 01 = In-Line Receptacle 070 = Rear Panel Mount Jam Nut Receptacle 06 = Straight Plug								
Insert-to-Shell Grounding	G = Insert grounded to shell Omit for none (for use with shielded cable and G3, F11 or F7 finish)								
Shell Size	18								
RJ45 Category	5E = Cat 5E (For Cat 6A applications consult factory)								
RJ45 Orientation	1,2,3 or 4								
Backshell	ZL = Backshell with Banding Porch and Boot Groove								
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F7 = Aluminum/Conductive Black Zinc Nickel F6 = Aluminum/Black Polymer Electrocoat F11 = Aluminum/Electroless Nickel								

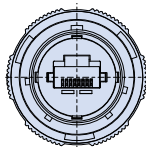


RJ45 Orientation Options (Plug Shown)

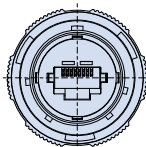
CODE 1



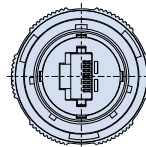
CODE 3



CODE 2



CODE 4



NOTES

1. See Section A for recommended panel cut out dimensions

HEAT SHRINK BOOT

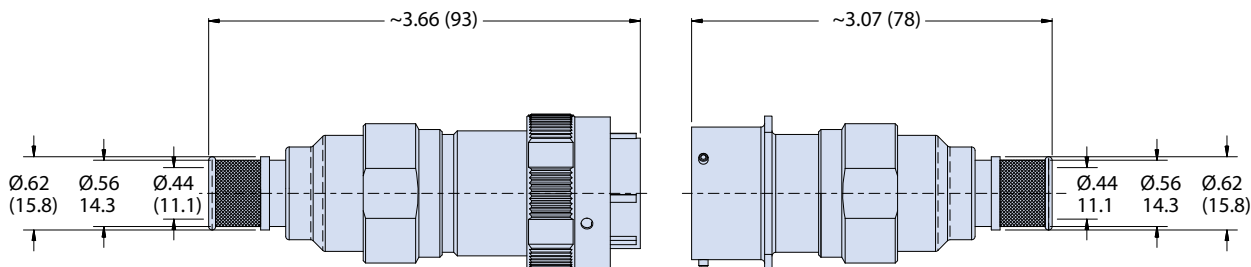


Glenair P/N : 770-004S903W2

Must be ordered separately

Type 9 flexible polyolefin short profile boots have an operating temperature range of -40°C to 100°C and provide very good resistance to fuels, oils and solvents. These boots fit most standard boot adapters for circular connectors and are specifically designed for low temperature rated CAT5e and USB cables.

CONNECTOR AND BACKSHELL WITH INTEGRAL BANDING PORCH AND BOOT GROOVE





RJ45 CAT 5E ETHERNET

Series IPT (26482 Type) Bayonet Coupler



ITS340H Connector and Backshell with Pigtail

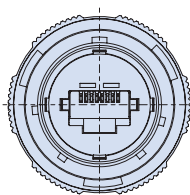
How to Order											
Sample Part Number			IPT300H	00	G	18	5E	1	T	ZL	1 F7
Basic Number	IPT300H										
Connector Style ¹	00 = Front Panel Mount Square Flange Receptacle with Accessory Threads 01 = In-Line Receptacle 070 = Rear Panel Mount Jam Nut Receptacle with Accessory Threads 06 = Straight Plug										
Insert-to-Shell Grounding	G = Insert grounded to shell (use only with F11 or F7 finish and shielded cable) Omit for none										
Shell Size	18										
RJ45 Category	5E = Cat 5E For Cat 6A applications consult factory										
RJ45 Orientation	1,2,3 or 4										
Shrink Boot	T = Shrink Boot Omit for none										
Backshell	ZL = Backshell with Banding Porch and Boot Groove										
Cable Length	.5 meter; order in .5 meter increments (approximately 20 inches)										
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F7 = Aluminum/Conductive Black Zinc Nickel F6 = Aluminum/Black Polymer Electrocoat F11 = Aluminum/Electroless Nickel										



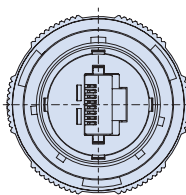
NOTES

- See Section A recommended panel cut out dimensions

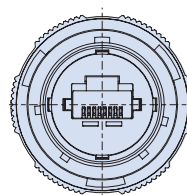
RJ45 Orientation Options (Plug Shown)



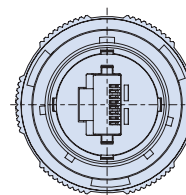
Code 1



Code 2

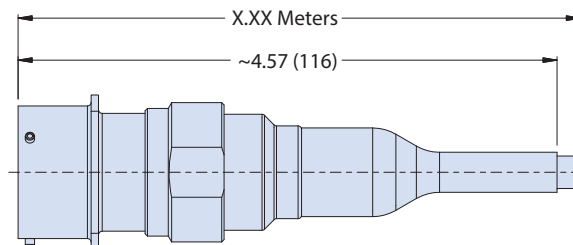
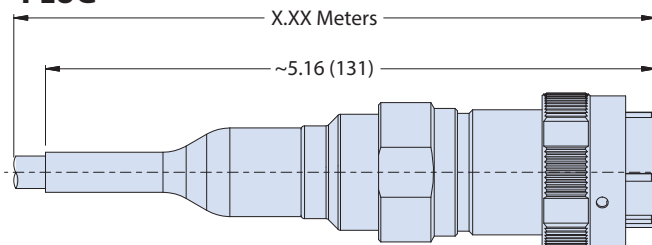


Code 3



Code 4

06 - PLUG

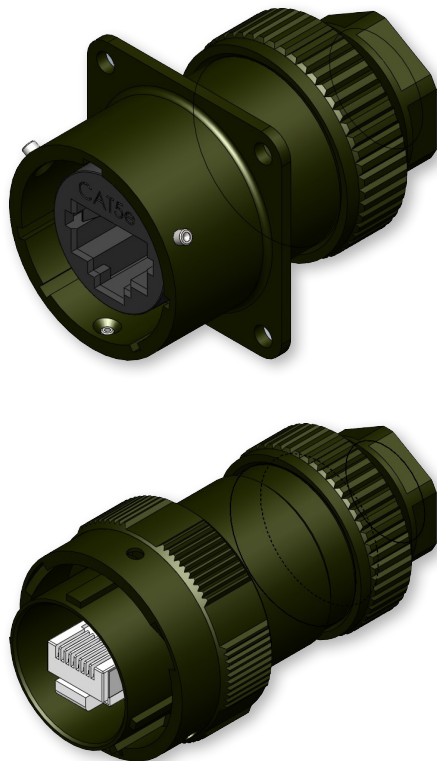


Cable to be ordered in 0.5 meter increments



RJ45 CAT 5E ETHERNET Series IPT (26482 Type) Bayonet Coupler

IPT300H Connector and Backshell with Internal Metric Thread

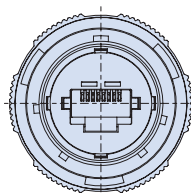


How to Order									
Sample Part Number	IPT300H	00	G	18	5E	1	M	F7	
Basic Number	IPT300H								
Connector Style ¹	00 = Front Panel Mount Square Flange Receptacle with Accessory Threads 01 = In-Line Receptacle 070 = Rear Panel Mount Jam Nut Receptacle with Accessory Threads 06 = Straight Plug								
Insert-to-Shell Grounding	G = Insert grounded to shell (for use with shielded cable) (Use only with G3, F11 or F7 finish) Omit for none								
Shell Size	18								
RJ45 Category	5E = Cat 5E For Cat 6A applications consult factory								
RJ45 Orientation	1,2,3 or 4								
Backshell	M = M16 x 1.5 Internal Thread PG9 = PG9 Internal Thread								
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F6 = Aluminum/Black Polymer Electrocoat F7 = Aluminum/Conductive Black Zinc Nickel F11 = Aluminum/Electroless Nickel								

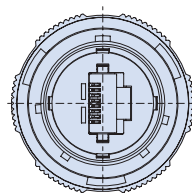
NOTES

- See Section A for recommended panel cut out dimensions

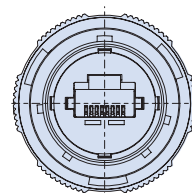
RJ45 Orientation Options (Plug Shown)



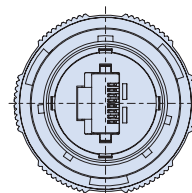
Code 1



Code 2

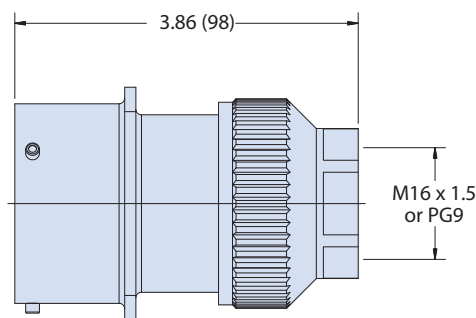
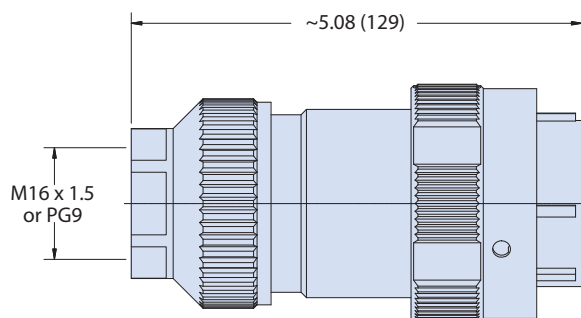


Code 3



Code 4

CONNECTOR AND BACKSHELL WITH M16 X 1.5 OR PG9 INTERNAL THREAD





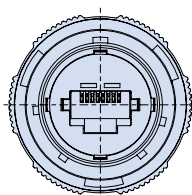
RJ45 CAT 5E ETHERNET Series IPT (26482 Type) Bayonet Coupler

IPT300H Connector and Backshell with Cable Gland and Optional Pigtail

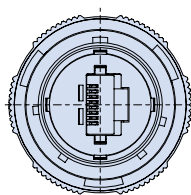


How to Order									
Sample Part Number	IPT300H	00	G	18	5E	1	M	0.5	F7
Basic Number	IPT300H								
Connector Style ¹	00 = Front Panel Mount Square Flange Receptacle with Accessory Threads 01 = In-Line Receptacle 070 = Rear Panel Mounting Jam Nut Receptacle 06 = Straight Plug								
Insert-to-Shell Grounding	G = Insert grounded to shell (for use with shielded cable) (Use only with G3, F11 or F7 finish) Omit for none								
Shell Size	18								
RJ45 Category	5E = Cat 5E For Cat 6A applications consult factory								
RJ45 Orientation	1, 2, 3 or 4								
Metallic Cable Gland	M1, M2, MS1, MS2 (see metallic cable gland table)								
Cable Length	0.5 = 0.5 meter increments; I.E. 1.5 = 1.5 meters								
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F6 = Aluminum/Black Polymer Electrocoat F7 = Aluminum/Conductive Black Zinc Nickel F11 = Aluminum/Electroless Nickel								

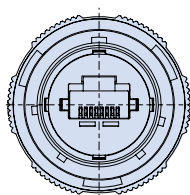
RJ45 Orientation Options (Plug Shown)



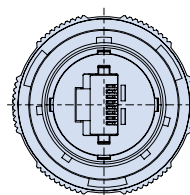
Code 1



Code2



Code 3



Code 4

Metallic Cable Gland		
Type	Cable Range	Shield
M1	.236 - .315 (6 - 8 mm)	No
M2	.315 - .394 (8 - 10)	No
MS1	.236 - .315 (6 - 8 mm)	Yes
MS2	.315 - .394 (8 - 10)	Yes

NOTES

1. See Section A for recommended panel cut out dimensions



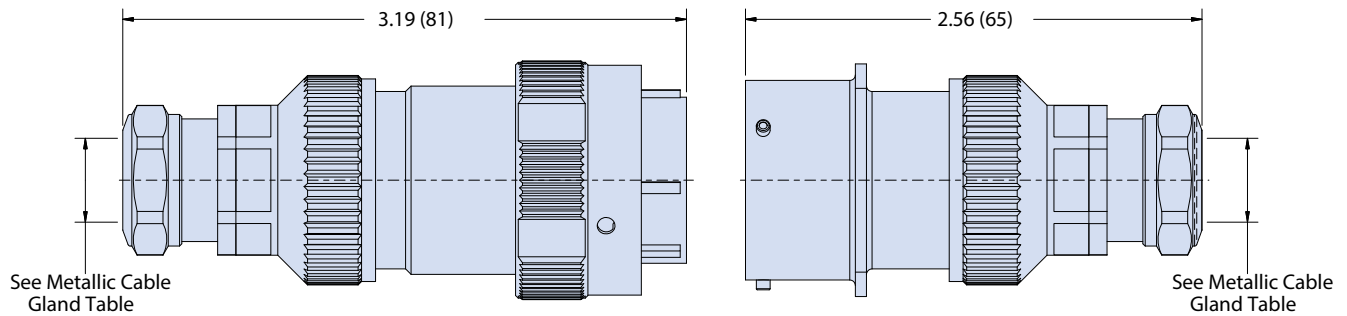
RJ45 CAT 5E ETHERNET

Series IPT (26482 Type) Bayonet Coupler

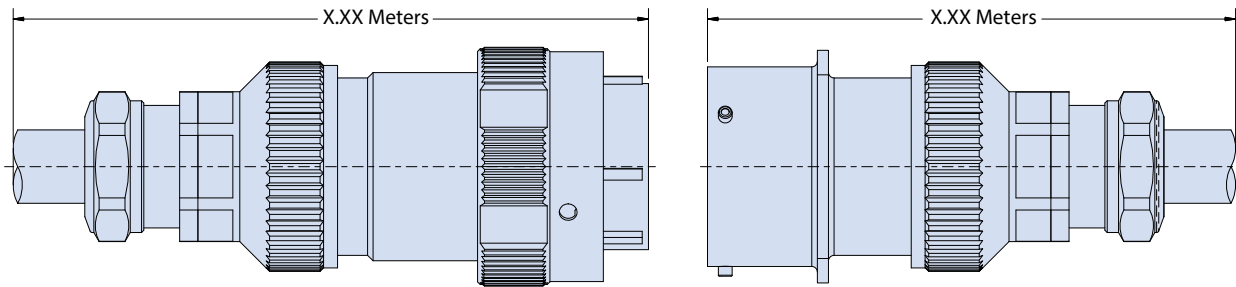


IPT300H Connector and Backshell with
Cable Gland and Optional Pigtail

PLUG AND RECEPTACLE WITHOUT PIGTAIL



PLUG AND RECEPTACLE WITH PIGTAIL



Cable to be ordered in 0.5 meter increments

**SERIES IPT
FIELD-READY
USB 2.0**

SUPERSEAL™

Rugged environmental Series IPT bayonet connectors with IP67 sealing, robust shielding, and a complete range of wire, cable, and circuit board terminations.



Series IPT SuperSeal™ Advantages

- 26482 Type bayonet connectors for mil-aero applications
- Superior sealing—IP67 open face and IP68 mated — for complete system protection against water, sand and dust
- Highly durable USB design, including enhanced operating temperature, increased life-cycle, and rugged vibration and shock performance
- Crimp, solder-cup, PC-tail, and wire termination options
- USB 2.0 plug and receptacle versions
- Available backshells provide strain-relief and environmental protection



Glenair, Inc.
1211 Air Way
Glendale, CA 91201-2497
818-247-6000
sales@glenair.com
www.glenair.com



USB 2.0 TYPE A Series IPT (26482 Type) Bayonet Coupler

Product Selection Guide



G



IPT340

Page G-2

SuperSeal™ Coupler with Accessory Threads and USB Male-to-Female (Plug) or Female-to-Female (Receptacle) Interface.



IPT342

Page G-4

SuperSeal™ Receptacle with USB Female Interface to PC Tail Termination.



IPT343

Page G-6

SuperSeal™ Receptacle with USB Female Interface to Solder Cup Termination.



IPT345

Page G-8

SuperSeal™ Connectors with Accessory Threads and USB Male (Plug) or Female (Receptacle) Interface to Crimp Removable Contacts.



IPT370

Page G-10

SuperSeal™ Feedthrough Receptacle with USB Female-to-Female Interface.



IPT340H

Page G-11

SuperSeal™ USB Connector and Backshell with Accessory Options.



USB 2.0 TYPE A

Series IPT (26482 Type) Bayonet Coupler



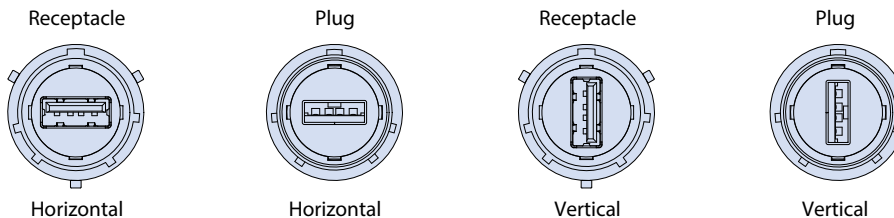
IPT340 Coupler with Accessory Threads and USB
Male-to-Female (Plug) or Female-to-Female (Receptacle)

G

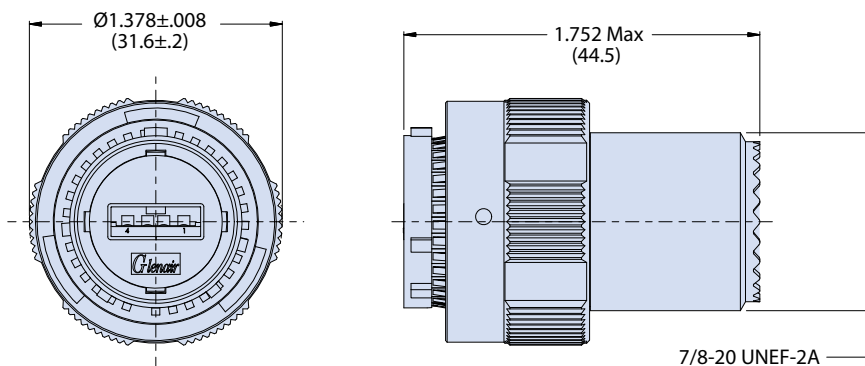


How to Order							
Sample Part Number	IPT340	00	16	2	A	H	F6
Basic Number	IPT340						
Connector Style ¹	06 = Plug 01 = In-Line Receptacle 070 = Rear Panel Mount Jam Nut Receptacle 00 = Wall Mount Receptacle						
Shell Size	16						
USB Performance	2 = 2.0						
USB Type	A = Type A						
Orientation Option	H = Horizontal V = Vertical						
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab F6 = Black Polymer Electrocoat F7 = Conductive Black Zinc Nickel F11 = Electroless Nickel						

USB Orientation Options



06 - PLUG WITH ACCESSORY THREADS



NOTES

1. See Section A panel cutout dimensions



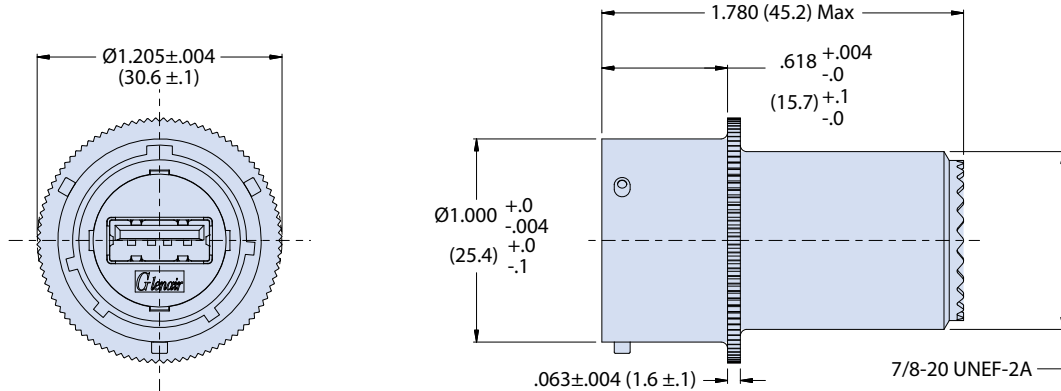
USB 2.0 TYPE A

Series IPT (26482 Type) Bayonet Coupler

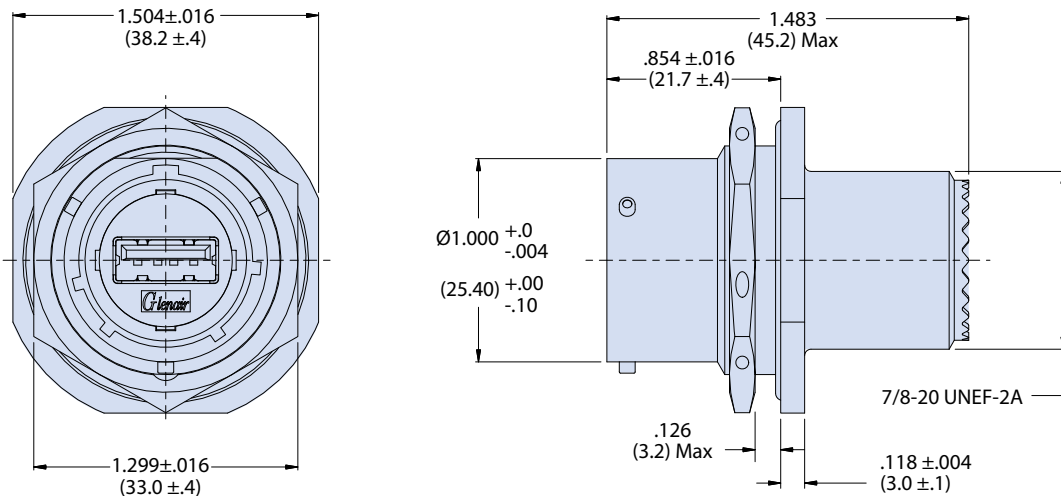


IPT340 Coupler with Accessory Threads and USB
Male-to-Female (Plug) or Female-to-Female (Receptacle)

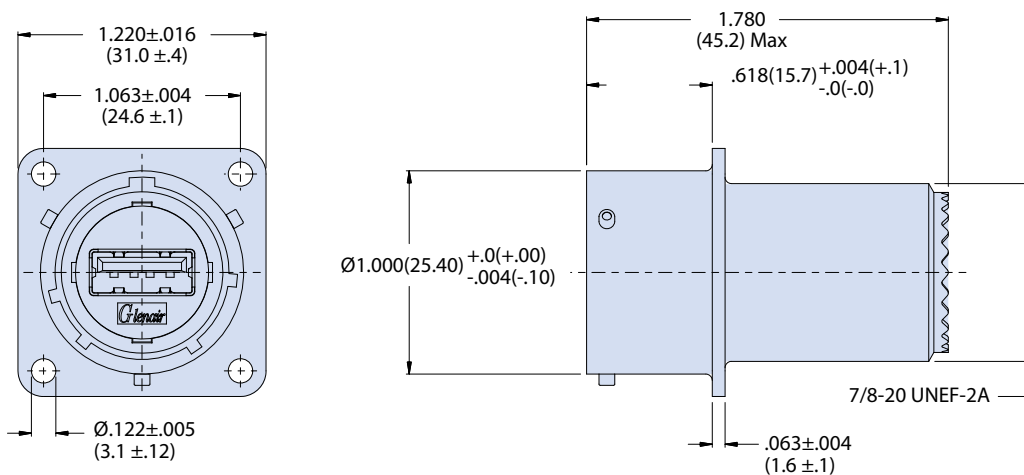
01 - INLINE RECEPTACLE WITH ACCESSORY THREADS



070 - REAR PANEL MOUNT JAM NUT RECEPTACLE WITH ACCESSORY THREADS



00 - WALL MOUNT RECEPTACLE WITH ACCESSORY THREADS





USB 2.0 TYPE A

Series IPT (26482 Type) Bayonet Coupler



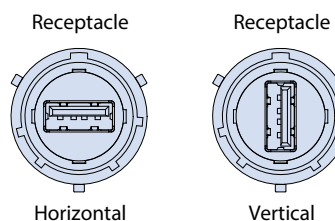
IPT342 Receptacle with USB Female Interface to PC Tail Termination

G



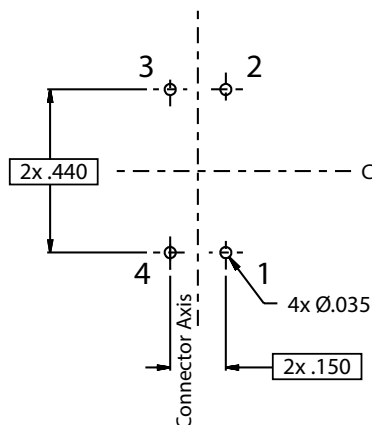
How to Order							
Sample Part Number	IPT342	02	16	2	A	H	F6
Basic Number	IPT342						
Connector Style ¹	02 = Wall Mount Receptacle 07 = Rear Panel Mount Jam Nut Receptacle						
Shell Size	16						
USB Performance	2 = 2.0						
USB Type	A = Type A						
Orientation Option	H = Horizontal V = Vertical						
Material/Finish	Omit for Cadmium/Olive Drab F6 = Black Polymer Electrocoat F7 = Conductive Black Zinc Nickel F11 = Electroless Nickel						

USB Orientation Options



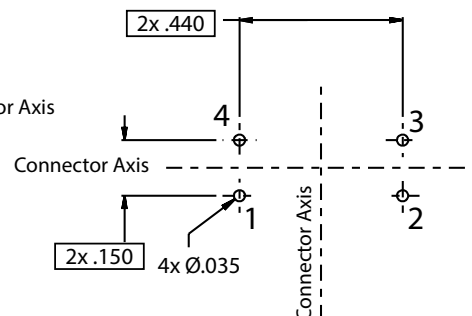
RECOMMENDED PCB LAYOUT

Receptacle USB 2.0 / Type A
(Horizontal Orientation)



Recommended
(Solder Side)

Receptacle USB 2.0 / Type A
(Vertical Orientation)



Recommended
(Solder Side)

NOTES

1. See Section A for panel cutout dimensions



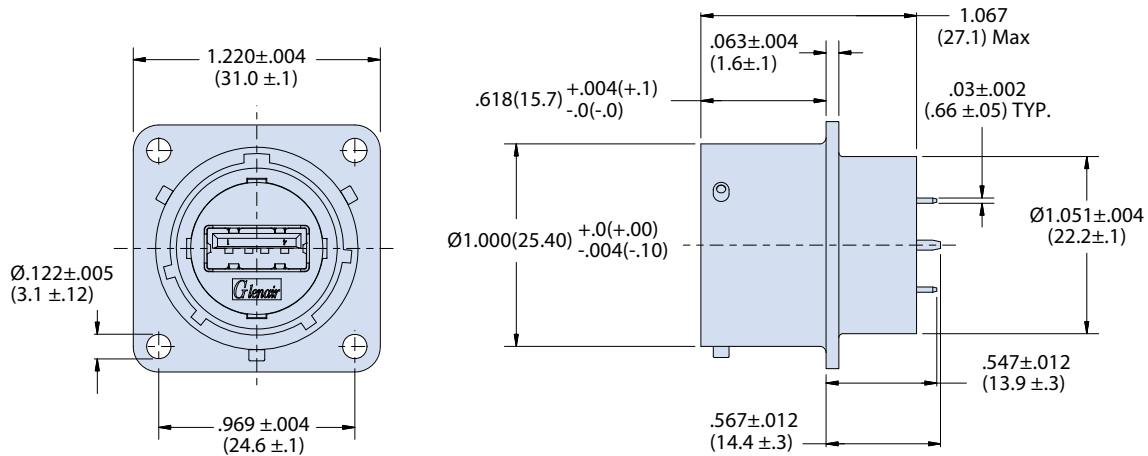
USB 2.0 TYPE A

Series IPT (26482 Type) Bayonet Coupler

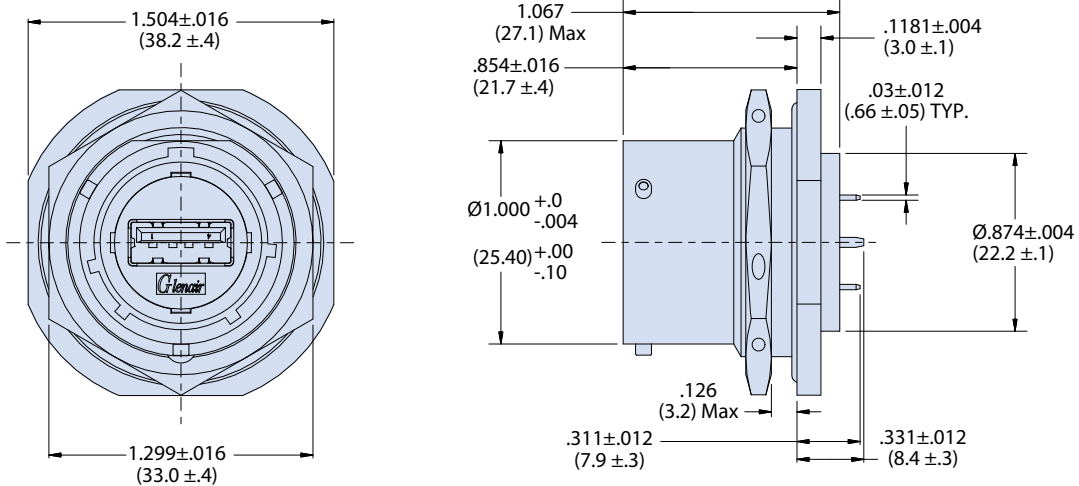


IPT342 Receptacle with
USB Female Interface to PC Tail Termination

02 - WALL MOUNT RECEPTACLE



07 - REAR PANEL MOUNT JAM NUT RECEPTACLE





USB 2.0 TYPE A

Series IPT (26482 Type) Bayonet Coupler



IPT343 Receptacle with USB

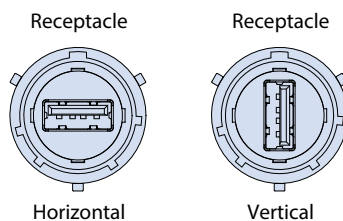
Female Interface to Solder Cup Termination

G



How to Order							
Sample Part Number	IPT343	02	16	2	A	H	F6
Basic Number	IPT343						
Connector Style ¹	02 = Wall Mount Receptacle 07 = Rear Panel Mount Jam Nut Receptacle						
Shell Size	16						
USB Performance	2 = 2.0						
USB Rear Jack Type	A = Type A						
Orientation Option	H = Horizontal V = Vertical						
Material/Finish	Omit for Cadmium/Olive Drab F6 = Black Polymer Electrocoat F7 = Conductive Black Zinc Nickel F11 = Electroless Nickel						

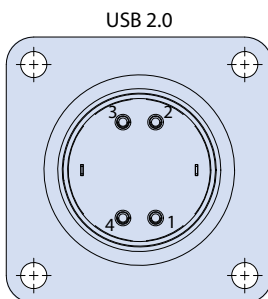
USB Orientation Options



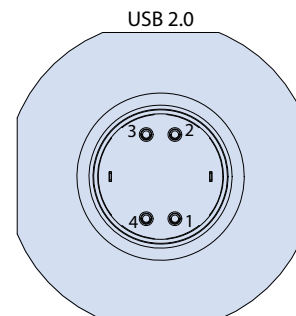
SOLDER CUP LAYOUTS FOR USB 2.0

Horizontal USB layout

-02 Style Solder Cup Layouts



-07 Style Solder Cup Layouts





USB 2.0 TYPE A

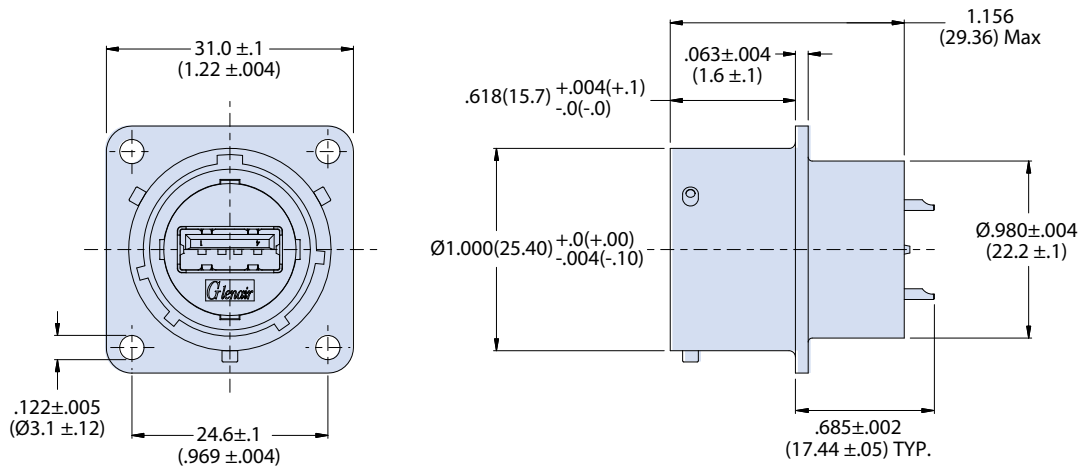
Series IPT (26482 Type) Bayonet Coupler



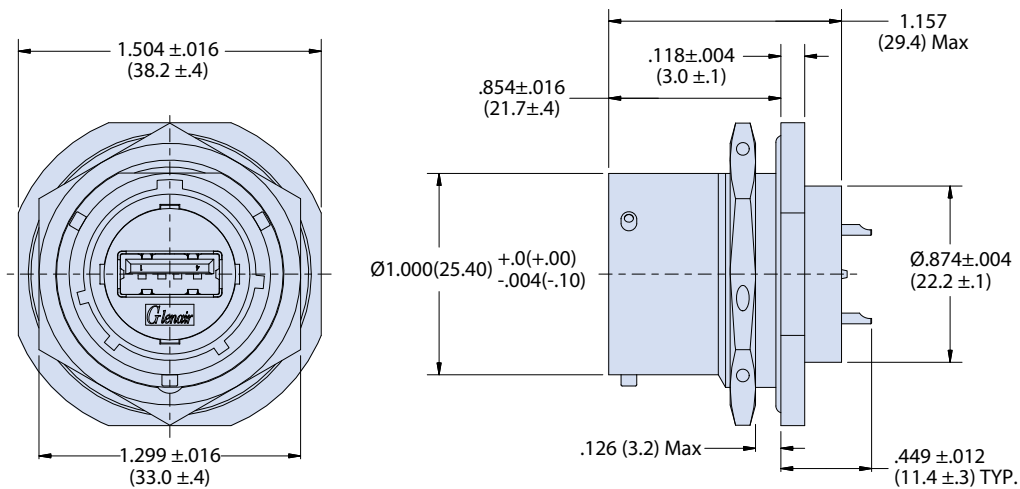
IPT343 Receptacle with USB

Female Interface to Solder Cup Termination

02 - WALL MOUNT RECEPTACLE



07 - REAR PANEL MOUNT JAM NUT RECEPTACLE



NOTES

1. See Section A panel cutout dimensions



USB 2.0 TYPE A

Series IPT (26482 Type) Bayonet Coupler



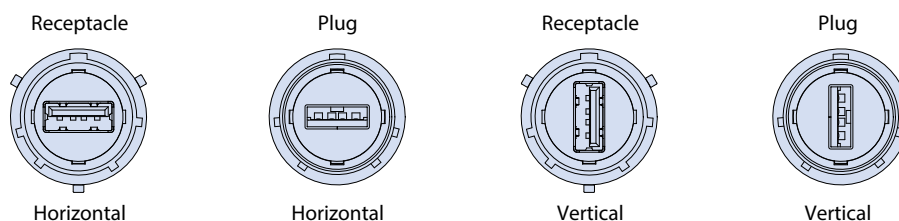
IPT345 Connectors with USB Male (Plug) or Female (Receptacle) Interface to Crimp Removable Contacts

G



How to Order							
Sample Part Number	IPT345	00	16	2	A	H	F6
Basic Number	IPT345						
Connector Style	00 = Wall Mount Receptacle 070 = Rear Panel Mount Jam Nut Receptacle 06 = Straight Plug						
Shell Size	16						
USB Performance	2 = 2.0						
USB Rear Jack Type	A = Type A						
Orientation Option	H = Horizontal V = Vertical						
Material/Finish	Omit for Cadmium/Olive Drab F6 = Black Polymer Electrocoat F7 = Conductive Black Zinc Nickel F11 = Electroless Nickel						

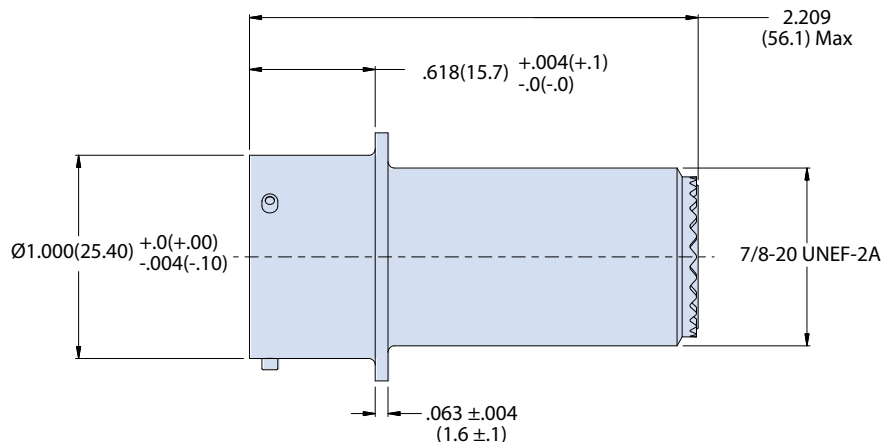
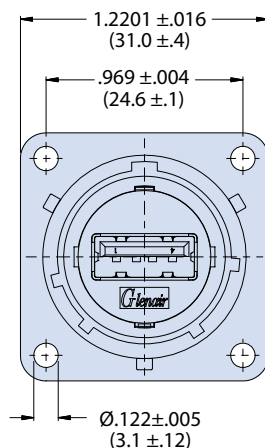
USB Orientation Options



NOTES

1. See Section A for panel cutout dimensions

00 - WALL MOUNT RECEPTACLE WITH ACCESSORY THREADS





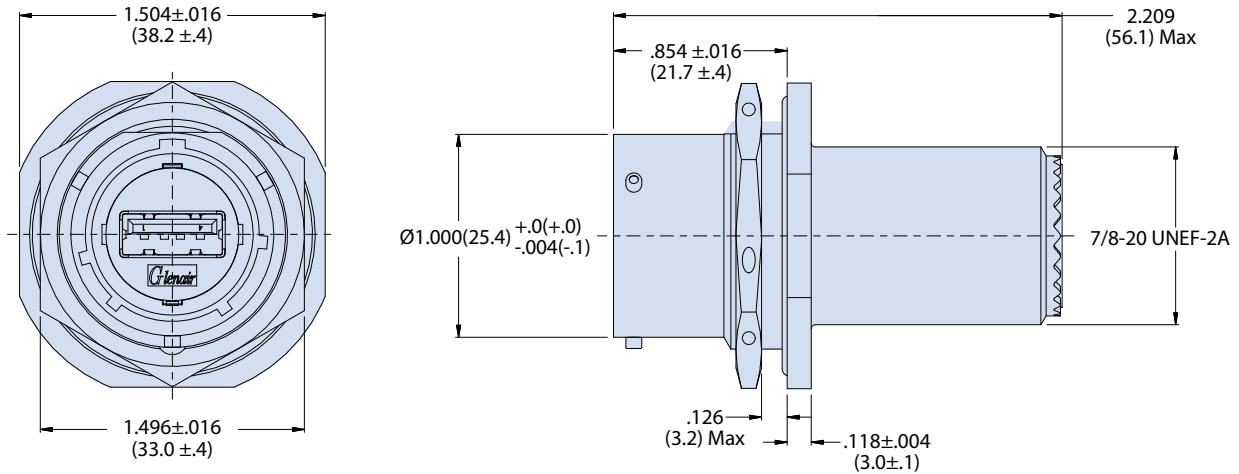
USB 2.0 TYPE A

Series IPT (26482 Type) Bayonet Coupler

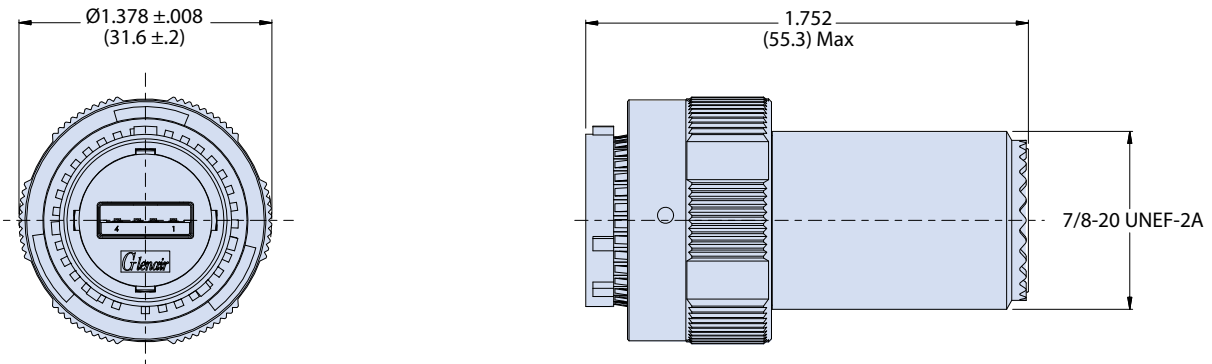


IPT345 Connectors with USB Male (Plug) or Female (Receptacle) Interface to Crimp Removable Contacts

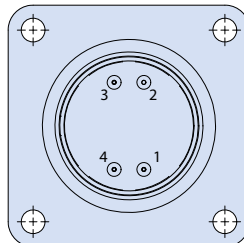
070 - REAR PANEL MOUNT JAM NUT RECEPTACLE WITH ACCESSORY THREADS



06 - PLUG WITH ACCESSORY THREADS



Crimp Contact Layout (Horizontal Orientation Shown)





USB 2.0 TYPE A

Series IPT (26482 Type) Bayonet Coupler



IPT370 Feedthrough Receptacle with USB Female-to-Female Interface

G

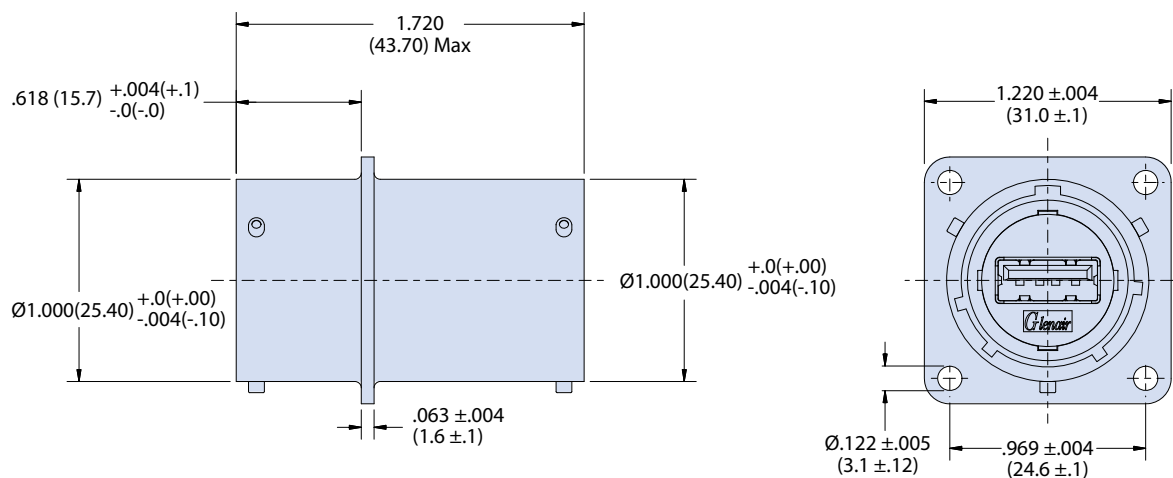
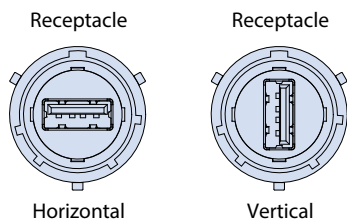


How to Order								
Sample Part Number	IPT370	02PP	16	2	A	A	H	F6
Basic Number	IPT370							
Connector Style ¹	02PP = Rear Panel Mounting Receptacle Bulkhead Feed Through							
Shell Size	16							
USB Performance	2 = 2.0							
USB Rear Jack Type	A = Type A							
USB Front Jack Type	A = Type A							
USB Orientation	H = Horizontal V = Vertical							
Material/Finish	Omit for Cadmium/Olive Drab F6 = Black Polymer Electrocoat F7 = Conductive Black Zinc Nickel F11 = Electroless Nickel							

NOTES

- See Section A for panel cutout dimensions and complete finish options

USB Orientation Options





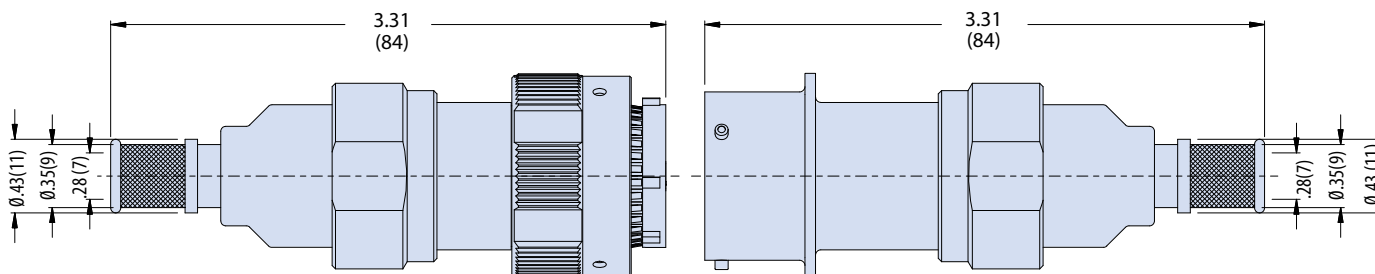
USB 2.0 TYPE A

Series IPT (26482 Type) Bayonet Coupler

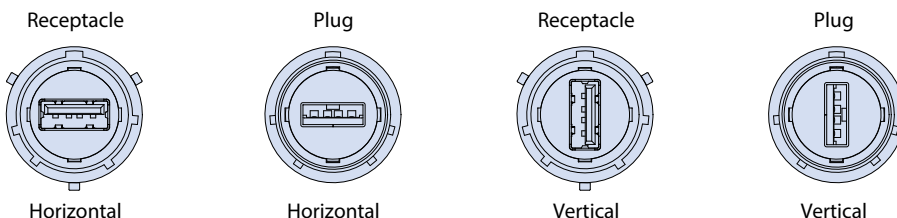


IPT340H Connector and Backshell with Banding Porch and Shrink Boot Groove

How to Order									
Sample Part Number		IPT340H	00	16	2	A	A	H	ZL F6
Basic Number	IPT340H								
Connector Style ¹	00 = Wall Mount Receptacle with Accessory Threads 01 = InLine Receptacle with Accessory Threads 070 = Rear Panel Mount Jam Nut Receptacle with Accessory Threads 06 = Straight Plug Connector with Accessory Threads								
Shell Size	16								
USB Performance	2 = 2.0								
USB Rear Jack Type	A = Type A								
USB Front Jack Type	A = Type A								
USB Orientation	H = Horizontal V = Vertical								
Backshell	ZL = With banding platform for direct attachment of cable shield and shrink boot groove								
Material/Finish	Omit for Cadmium/Olive Drab F7 = Conductive Black Zinc Nickel F6 = Black Polymer Electrocoat F11 = Electroless Nickel								



USB Orientation Options



HEAT SHRINK BOOT



NOTES

1. See Section A for panel cutout dimensions

Glenair P/N : 770-004S903W2

Must be ordered separately

Type 9 flexible polyolefin short profile boots have an operating temperature range of -40°C to 100°C and provide very good resistance to fuels, oils and solvents. These boots fit most standard boot adapters for circular connectors and are specifically designed for low temperature rated CAT5e and USB cables.



USB 2.0 TYPE A

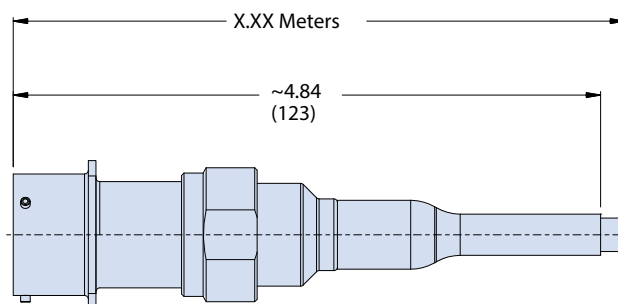
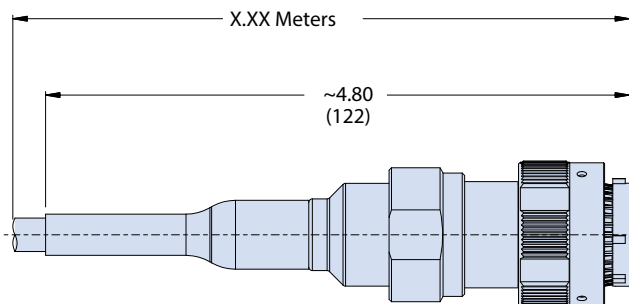
Series IPT (26482 Type) Bayonet Coupler



IPT340H Connector and Backshell with Pigtail

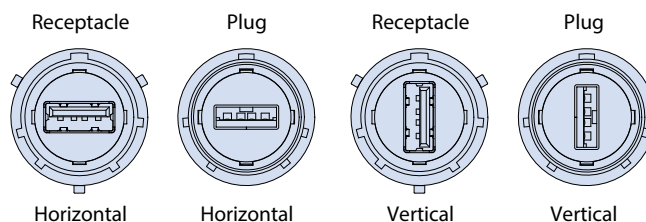
G

How to Order											
Sample Part Number			IPT340H	00	16	2	A	A	H	ZL	0.5 F6
Basic Number	IPT340H										
Connector Style ¹	00 = Wall Mount Receptacle 01 = InLine Receptacle 070 = Rear Panel Mounting Jam Nut Receptacle 06 = Straight Plug Connector										
Shell Size	16										
USB Performance	2 = 2.0										
USB Rear Jack Type	A = Type A										
USB Front Jack Type	A = Type A										
USB Orientation	H = Horizontal V = Vertical										
Backshell	ZL = Backshell with banding platform for direct attachment of cable shield and shrink boot pre-installed										
Cable Length	0.5 = 0.5 inch pigtail (See High Data Rate Cable P/N 963-012)										
Material/Finish	Omit for Cadmium/Olive Drab F6 = Black Polymer Electrocoat		F7 = Conductive Black Zinc Nickel F11 = Electroless Nickel								



Plug and Receptacle with Pigtail

USB Orientation Options



NOTES

1. See Section A for panel cutout dimensions



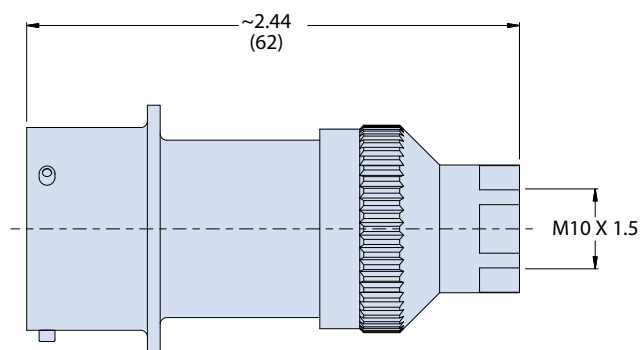
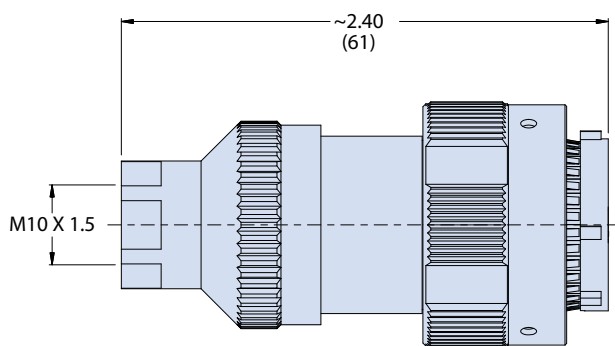
USB 2.0 TYPE A Series IPT (26482 Type) Bayonet Coupler

IPT340H Connector with Internal Metric Thread Backshell



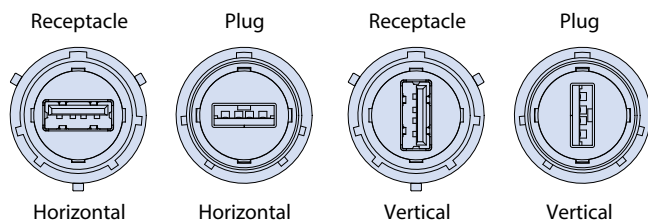
G

How to Order										
Sample Part Number			IPT340H	00	16	2	A	A	H	M F6
Basic Number	IPT340H									
Connector Style¹	00 = Wall Mount Receptacle 01 = InLine Receptacle 070 = Rear Panel Mounting Jam Nut Receptacle 06 = Straight Plug Connector									
Shell Size	16									
USB Performance	2 = 2.0									
USB Rear Jack Type	A = Type A									
USB Front Jack Type	A = Type A									
Orientation Option	H = Horizontal V = Vertical									
Backshell	M = Backshell with metric thread									
Material/Finish	Omit for Cadmium/Olive Drab F6 = Black Polymer Electrocoat F7 = Conductive Black Zinc Nickel F11 = Electroless Nickel									



Plug and Receptacle without Cable Gland
(Other Backshell options are available, please consult the factory)

USB Orientation Options



NOTES

1. See Section A panel cutout dimensions



USB 2.0 TYPE A

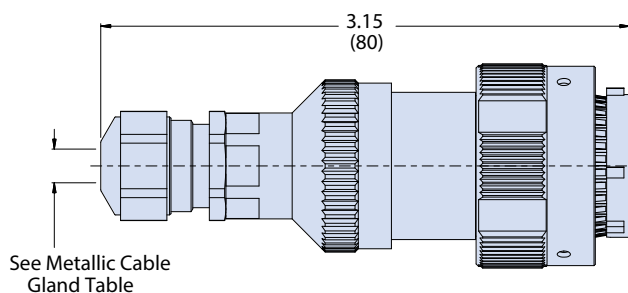
Series IPT (26482 Type) Bayonet Coupler



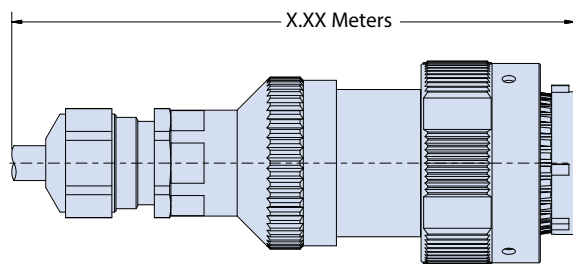
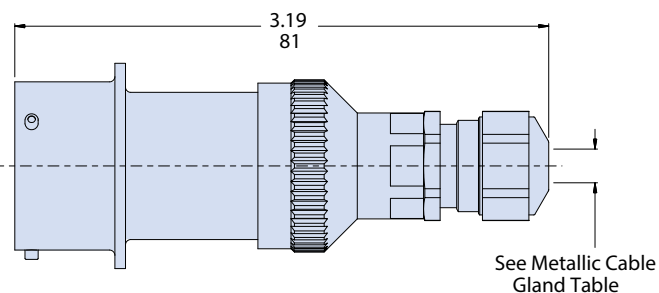
IPT340H Connector and Backshell with Cable Gland, with or without Pigtails

G

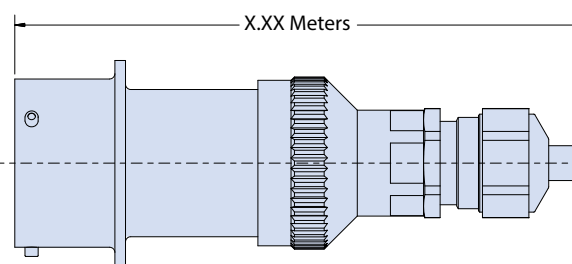
How to Order													
Sample Part Number				IPT340H	00	16	2	A	A	H	MS1	0.5	F6
Basic Number	IPT340H												
Connector Style ¹	00 = Wall Mount Receptacle 01 = InLine Receptacle 070 = Rear Panel Mounting Jam Nut Receptacle 06 = Straight Plug Connector with Accessory Threads												
Shell Size	16												
USB Performance	2 = 2.0												
USB Rear Jack Type	A = Type A												
USB Front Jack Type	A = Type A												
USB Orientation	H = Horizontal V = Vertical												
Metallic Cable Gland	M1, M2, MS1, MS2 See Metallic Cable Gland Table												
Cable Length	0.5 = 0.50 inch pigtail Omit for None												
Material/Finish	Omit for Aluminum/Cadmium, Olive Drab (G3) F6 = Black Polymer Electrocoat				F7 = Conductive Black Zinc Nickel F11 = Electroless Nickel								



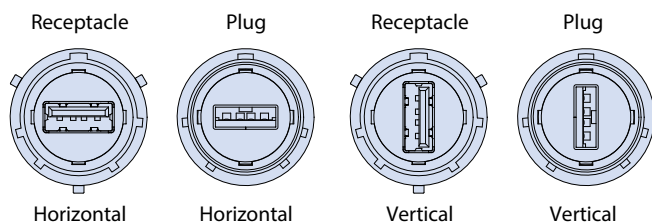
Plug and Receptacle without Pigtail



Plug and Receptacle with Pigtail



USB Orientation Options



Metallic Cable Gland		
Type	Cable Range	Shield
M1	3 – 4	No
M2	4 – 6	No
MS1	3 – 4	Yes
MS2	4 – 6	Yes

NOTES

1. See Section A for panel cutout dimensions



RJ12, RJ45, AND USB 2.0 TYPE A SuperSeal™ 28840 Type Connectors

Product Selection Guide



H



900-320

Page H-2

SuperSeal™ Coupler with Accessory Threads and RJ12 Plug-to-Jack (Plug) or Jack-to-Jack (Receptacle).



900-300

Page H-4

SuperSeal™ Coupler with Accessory Threads and RJ45 Plug-to-Jack (Plug) or Jack-to-Jack (Receptacle).



900-301

Page H-6

SuperSeal™ Connector with Accessory Threads and RJ45 Plug (Plug) or Jack (Receptacle) to Crimp Removable Contacts.



900-340

Page H-8

SuperSeal™ Coupler with Accessory Threads and USB Male-to-Female (Plug) or Female-to-Female (Receptacle).



900-345

Page H-10

SuperSeal™ Connector with Accessory Threads and USB Male (Plug) or Female (Receptacle) to Crimp Removable Contacts.



RJ12 PHONE INTERFACE 28840 SuperSeal™



900-320 Coupler with Accessory Threads and RJ12 Plug-to-Jack (Plug) or Jack-to-Jack (Receptacle)

How to Order							
Part Number Example	900-320	NF	D0	-	17	1	1
Basic Number	900-320						
Material/Finish	See Material and Finish Options Table						
Connector Style	D0 = Receptacle, Wall Mount 05 = Receptacle, Inline 07 = Receptacle, Jam Nut G6 = Plug						
Shielding	- = Inline Shielded RJ45 G = Inline Shielded and Grounded to Shell (See Note 2)						
Shell Size	15 or 17						
Alternate Polarization	1, 2, 3, 4, 5, 6 See Section A for details (Per MIL-DTL-28840)						
RJ12 Orientation Option	1, 2, 3, 4 (See below for options)						

NOTES

1. Receptacle meets IP67 requirements in the unmated condition and plug meets IP68 requirements in the mated condition, consult factory for details.
2. "G" option only with receptacle.
3. Connector accessory features per M28840 connector designator G. Consult factory for accessory selection.

SPECIFICATIONS

- RJ12 coupler maintains shield continuity
- Wiring: straight through
- RoHS compliant
- Electrical: current rating: 1.5 Amp
- D.W.V.: 1000 VDC (700 VAC)
- Operating temperature: -40°C to +120°C

Wall Mount & Inline Receptacle Dimensions						
Shell Size	A Thread	B Sq	C Bsc	D Thread	E	ØF
15	1.062-.1P-.2L-DS-2A	1.278 (32.46) 1.238 (31.45)	.968 (24.59)	1.000-20 UNEF 2A	1.080 (27.43) 1.070 (27.18)	1.275 (32.39) 1.255 (31.88)
17	1.125-.1P-.2L-DS-2A	1.403 (35.64) 1.363 (34.62)	1.015 (25.78)	1.125-18 UNEF 2A	1.143 (29.03) 1.133 (28.78)	1.338 (33.99) 1.318 (33.48)

Jam Nut Receptacle & Plug Dimensions					
Shell Size	ØG	H	J Flat	K Thread	ØL Max
15	1.681 (42.70) 1.661 (42.19)	1.587 (40.31) 1.567 (39.80)	1.153 (29.29) 1.144 (29.06)	1.1875-18 UNEF 2A	1.263 (32.08)
17	1.743 (44.27) 1.723 (43.76)	1.649 (41.88) 1.629 (41.38)	1.216 (30.89) 1.207 (30.66)	1.250-18 UNEF 2A	1.387 (35.23)

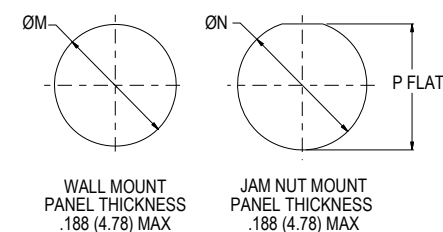
Material and Finish Options		
Code	Material	Finish Description
NF	Aluminum	Cadmium O. D. Over Electroless Nickel (500 hour Salt Spray)
ZN		Zinc Nickel, Olive Drab
MT		Nickel-PTFE, 1000 Hour Grey™
Z1	Stainless Steel	Passivate
ZU		Black Cadmium Over Nickel
AB	Marine Bronze	None (Clean Only)

Wiring Diagram*			
Pin	Modern Color Code (UTP)	Old Color Code	Destination
1	white/green	white	T3 (Tip 3)
2	white/orange	black	T2 (Tip 2)
3	blue/white	red	R1 (Ring 1)
4	white/blue	green	T1 (Tip 1)
5	orange/white	orange	R2 (Ring 2)
6	green/white	blue	R3 (Ring 3)

- Pair 1 = Primary dial tone or talk circuit on a single line
- Pair 2 = Secondary dial tone on a two line or data control circuit for an electronic key phone
- Pair 3 = Third dial tone on a three line or an accessory circuit for an electronic key phone

*Wiring Diagram based on industry standard USOC-6

Recommended Panel Cutouts			
Shell Size	ØM	ØN	P Flat
15	1.124 (28.55)	1.203 (30.56) 1.193 (30.30)	1.165 (29.59) 1.155 (29.34)
17	1.187 (30.15)	1.265 (32.13) 1.255 (31.88)	1.228 (31.19) 1.218 (30.94)



RJ12 JACK ORIENTATION OPTIONS

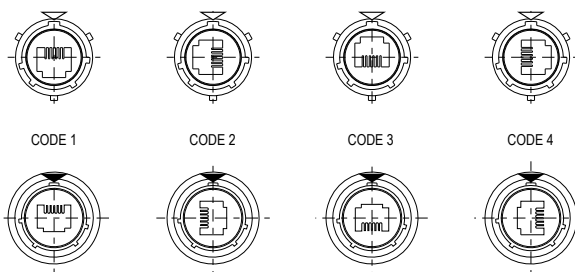
▽ = KEYWAY

RJ12 JACK ORIENTATION OPTIONS

(Partial Front Views Shown)

▼ = KEY

RJ12 PLUG ORIENTATION OPTIONS



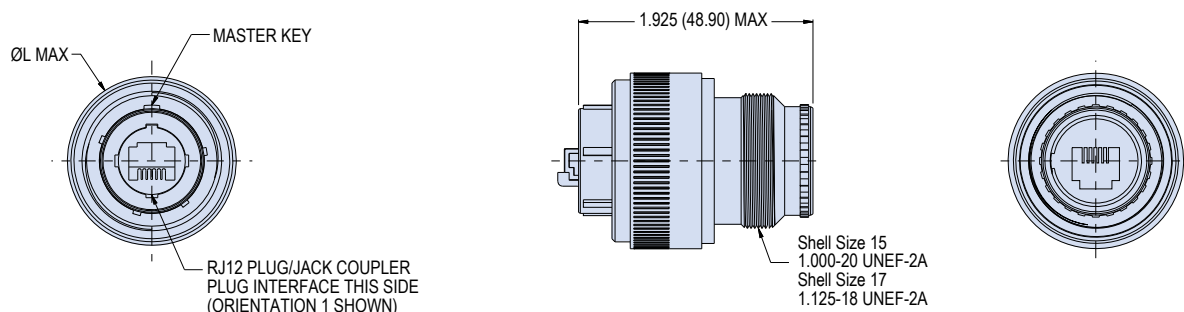


RJ12 PHONE INTERFACE 28840 SuperSeal™

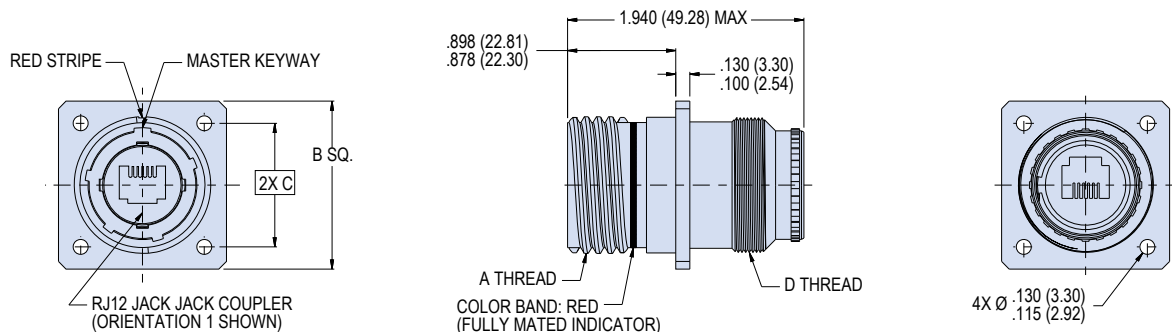


900-320 Coupler with Accessory Threads and RJ12
Plug-to-Jack (Plug) or Jack-to-Jack (Receptacle)

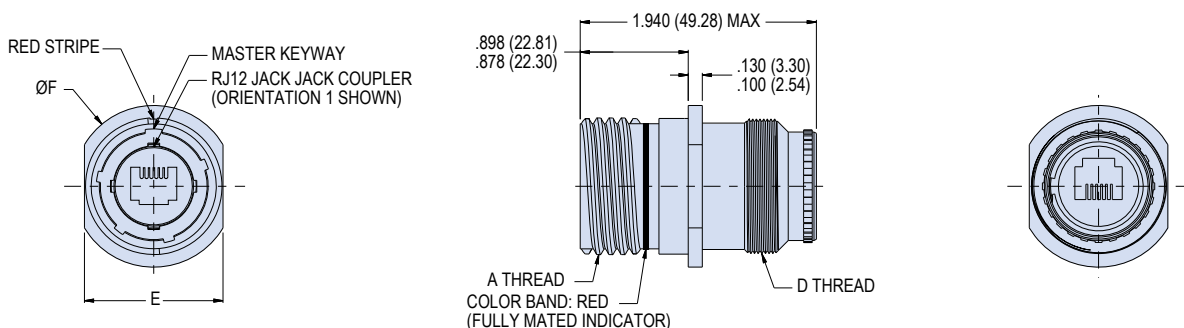
G6 - PLUG (JAM NUT RECEPTACLE & PLUG DIMENSIONS TABLE)



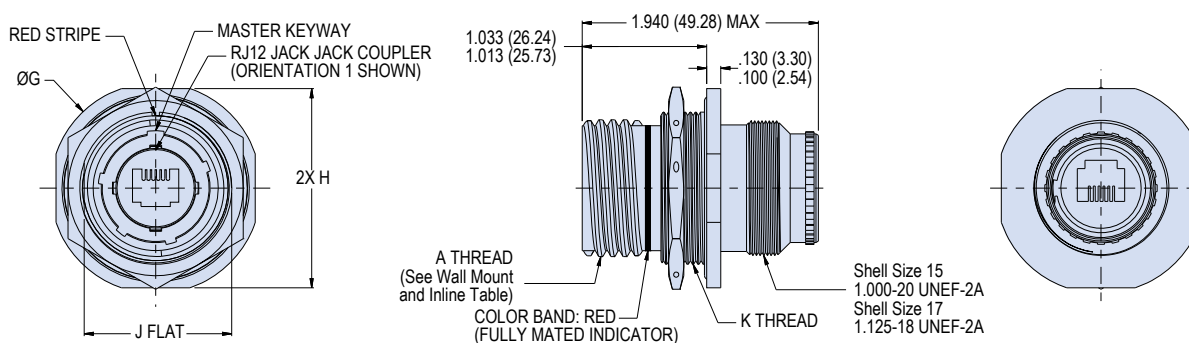
D0 - WALL MOUNT RECEPTACLE (SEE WALL MOUNT & INLINE RECEPTACLE DIMENSIONS TABLE)



05 - RECEPTACLE, INLINE (SEE WALL MOUNT & INLINE RECEPTACLE DIMENSIONS TABLE)



07 - JAM NUT MOUNT RECEPTACLE (JAM NUT RECEPTACLE & PLUG DIMENSIONS TABLE)





RJ45 CAT 5E ETHERNET 28840 SuperSeal™



900-300 Coupler with Accessory Threads and RJ45 Plug-to-Jack (Plug) or Jack-to-Jack (Receptacle)

H

How to Order									
Part Number Example	900-300	NF	D0	-	17	5H	1	1	
Basic Number	900-300								
Material/Finish	See Material and Finish Options Table								
Connector Style	D0 = Receptacle, Wall Mount 05 = Receptacle, Inline 07 = Receptacle, Jam Nut G6 = Plug								
Shielding	- = Inline Shielded RJ45 G = Inline Shielded and Grounded to Shell								
Shell Size	17 or 19 (See Note 1)								
RJ45 Category	5H = Cat 5E For Cat 6A applications consult factory								
Alternate Polarization	1, 2, 3, 4, 5, 6 See connector specifications page for further information (Per MIL-DTL-28840)								
RJ45 Orientation Option	1, 2, 3, 4 (See below for options)								

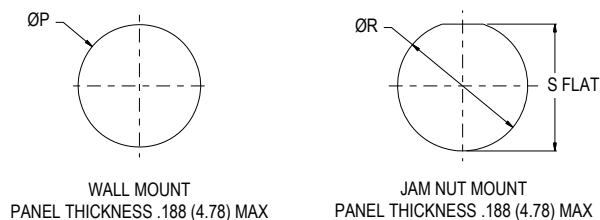
Wall Mount & Inline Receptacle Dimensions						
Shell Size	A Thread	B Sq	C Bsc	D Thread	E	ØF
17	1.125-.1P-.2L-DS-2A	1.403 (35.64) 1.363 (34.62)	1.015 (25.78)	1.125-18 UNEF 2A	1.143 (29.03) 1.133 (28.78)	1.338 (33.99) 1.318 (33.48)
19	1.312-.1P-.2L-DS-2A	1.528 (38.81) 1.488 (37.80)	1.140 (28.96)	1.250-18 UNEF 2A	1.330 (33.78) 1.320 (33.53)	1.525 (38.74) 1.505 (38.23)

Jam Nut Receptacle & Plug Dimensions						
Shell Size	ØG	H	J Flat	K Thread	ØL	ØN Max
17	1.743 (44.27) 1.723 (43.76)	1.649 (41.88) 1.629 (41.38)	1.216 (30.89) 1.207 (30.66)	1.250-18 UNEF 2A	1.354 (34.39) 1.344 (34.14)	1.387 (35.23)
19	1.931 (49.05) 1.911 (48.54)	1.837 (46.66) 1.817 (46.16)	1.403 (35.64) 1.394 (35.41)	1.4375-18 UNEF 2A	1.542 (39.17) 1.532 (38.91)	1.513 (38.43)

Panel Cutouts			
Shell Size	ØP	ØR	S Flat
17	1.187 (30.15)	1.265 (32.13) 1.255 (31.88)	1.228 (31.19) 1.218 (30.94)
19	1.374 (34.90)	1.453 (36.91) 1.443 (36.65)	1.415 (35.94) 1.405 (35.69)

Material and Finish Options		
Code	Material	Finish Description
NF	Aluminum	Cadmium O. D. Over Electroless Nickel (500 hour Salt Spray)
ZN		Zinc Nickel, Olive Drab
MT		Nickel-PTFE, 1000 Hour Grey™
Z1	Stainless Steel	Passivate
ZU		Black Cadmium Over Nickel
AB	Marine Bronze	None (Clean Only)

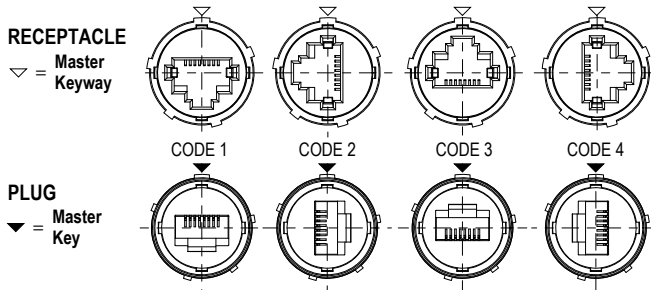
RECOMMENDED PANEL CUT-OUTS



NOTES

- Size 17 uses rear shielding sleeve.
Size 19 uses front and rear shielding sleeve.
- Connector accessory features per M28840 connector designator G. Consult factory for accessory selection.
- Receptacle connector meets IP67 requirements in the unmated condition and plug meets IP68 requirements in the mated condition, consult factory for details.

RJ45 ORIENTATION OPTIONS



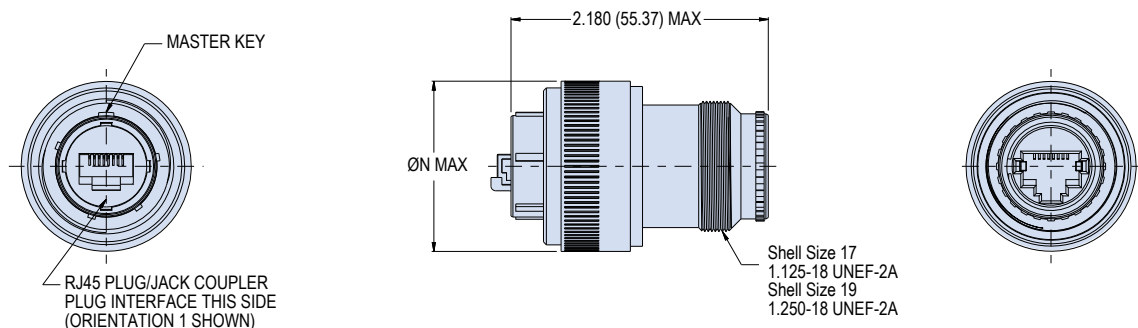


RJ45 CAT 5E ETHERNET 28840 SuperSeal™

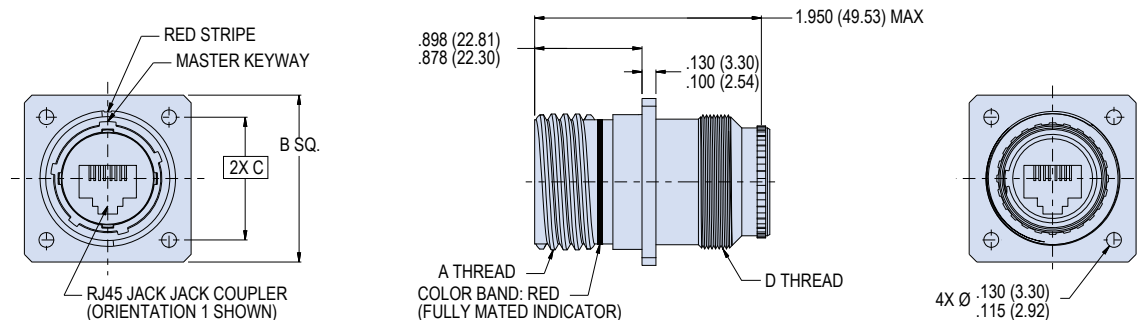


900-300 Coupler with Accessory Threads and RJ45
Plug-to-Jack (Plug) or Jack-to-Jack (Receptacle)

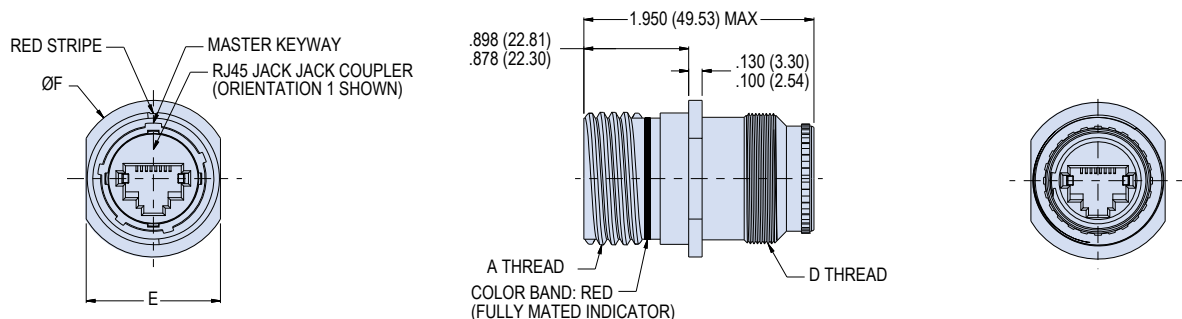
G6 - PLUG (JAM NUT RECEPTACLE & PLUG DIMENSIONS TABLE)



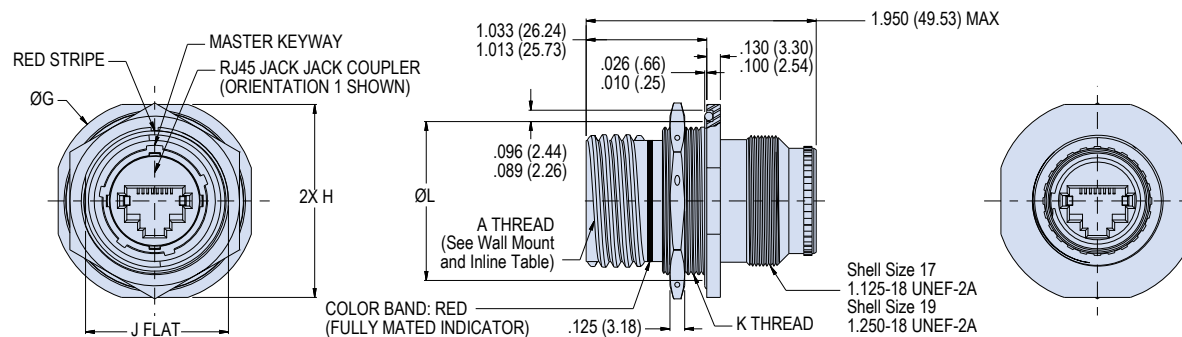
D0 - WALL MOUNT RECEPTACLE (WALL MOUNT & INLINE RECEPTACLE DIMENSIONS TABLE)



05 - RECEPTACLE, INLINE (WALL MOUNT & INLINE RECEPTACLE DIMENSIONS TABLE)



07 - JAM NUT MOUNT RECEPTACLE (JAM NUT RECEPTACLE & PLUG DIMENSIONS TABLE)





RJ45 CAT 5E ETHERNET 28840 SuperSeal™



900-301 Connector with RJ45 Plug (Plug) or Jack (Receptacle) to Crimp Removable Contacts

H

How to Order									
Part Number Example	900-301	NF	D0	-	17	5H	1	1	
Basic Number	900-301 = Connector with Accessory Threads								
Material/Finish	See Material and Finish Options Table								
Connector Style	D0 = Receptacle, Wall Mount 05 = Receptacle, Inline 07 = Receptacle, Jam Nut G6 = Plug								
Shielding	- = Inline Shielded RJ45 G = Inline Shielded and Grounded to Shell (See Note 4)								
Shell Size	17 or 19								
RJ45 Category	5H = CAT5E For Cat 6A applications consult factory								
Alternate Polarization	1, 2, 3, 4, 5, 6 See connector specifications page for further information (Per MIL-DTL-28840)								
RJ45 Orientation	1, 2, 3, 4 (See below for options)								

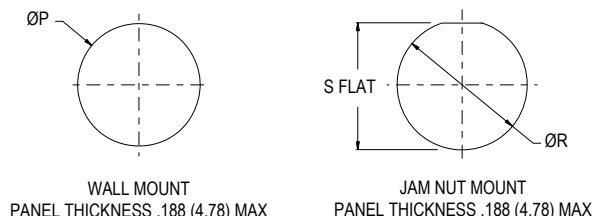
Wall Mount & Inline Receptacle Dimensions						
Shell Size	A Thread	B Sq	C Bsc	D Thread	E	ØF
17	1.125-.1P-.2L-DS-2A	1.403 (35.64) 1.363 (34.62)	1.015 (25.78)	1.125-18 UNEF 2A	1.143 (29.03) 1.133 (28.78)	1.338 (33.99) 1.318 (33.48)
19	1.312-.1P-.2L-DS-2A	1.528 (38.81) 1.488 (37.80)	1.140 (28.96)	1.250-18 UNEF 2A	1.330 (33.78) 1.320 (33.53)	1.525 (38.74) 1.505 (38.23)

Jam Nut Receptacle & Plug Dimensions					
Shell Size	ØG	H	J Flat	K Thread	ØL Max
17	1.743 (44.27) 1.723 (43.76)	1.649 (41.88) 1.629 (41.38)	1.216 (30.89) 1.207 (30.66)	1.250-18 UNEF 2A	1.387 (35.23)
19	1.931 (49.05) 1.911 (48.54)	1.837 (46.66) 1.817 (46.16)	1.403 (35.64) 1.394 (35.41)	1.4375-18 UNEF 2A	1.513 (38.43)

Panel Cutouts			
Shell Size	ØP	ØR	S Flat
17	1.187 (30.15)	1.265 (32.13) 1.255 (31.88)	1.228 (31.19) 1.218 (30.94)
19	1.374 (34.90)	1.453 (36.91) 1.443 (36.65)	1.415 (35.94) 1.405 (35.69)

Material and Finish Options		
Code	Material	Finish Description
NF	Aluminum	Cadmium O. D. Over Electroless Nickel (500 hour Salt Spray)
ZN		Zinc Nickel, Olive Drab
MT		Nickel-PTFE, 1000 Hour Grey™
Z1	Stainless Steel	Passivate
ZU		Black Cadmium Over Nickel
AB	Marine Bronze	None (Clean Only)

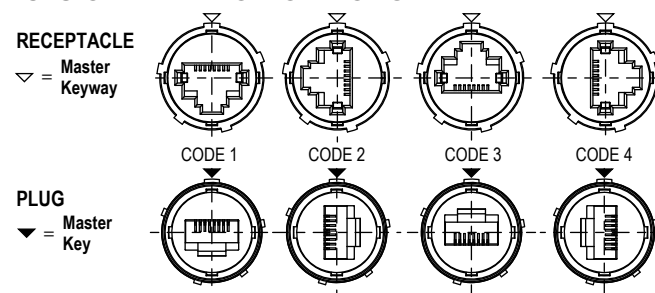
RECOMMENDED PANEL CUT-OUTS



NOTES

- Connector meets general requirements of MIL-DTL-28840 and RJ45 connector meets TIA 568B standard.
- Crimp removable contacts to conform to M39029/58-360 - size 22 pin contacts supplied loose.
- Receptacle connector designed to meet IP67 unmated condition. Plug connector designed to meet IP68 mated condition, consult factory for detailed information.
- "G" indicates RJ45 coupler is shielded inline and grounded to shell.
- Connector accessory features per M28840 connector designator G. Consult factory for crimp tool and accessory selection.

RJ45 ORIENTATION OPTIONS



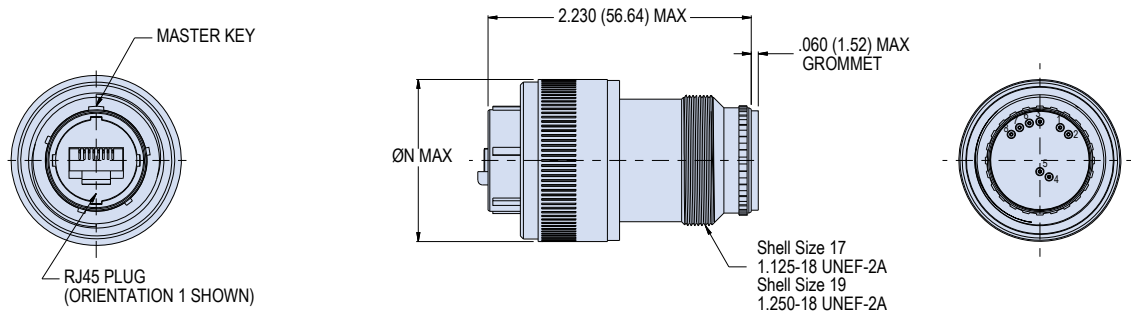


RJ45 CAT 5E ETHERNET 28840 SuperSeal™

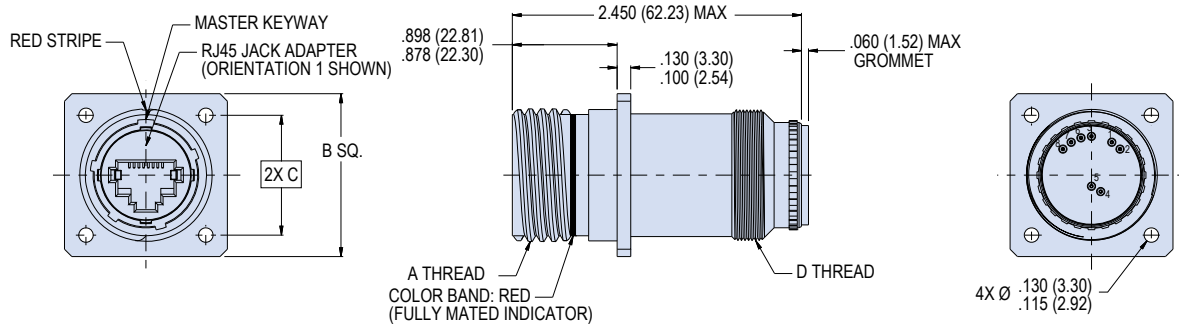


900-301 Connector with RJ45 Plug (Plug) or Jack (Receptacle) to Crimp Removable Contacts

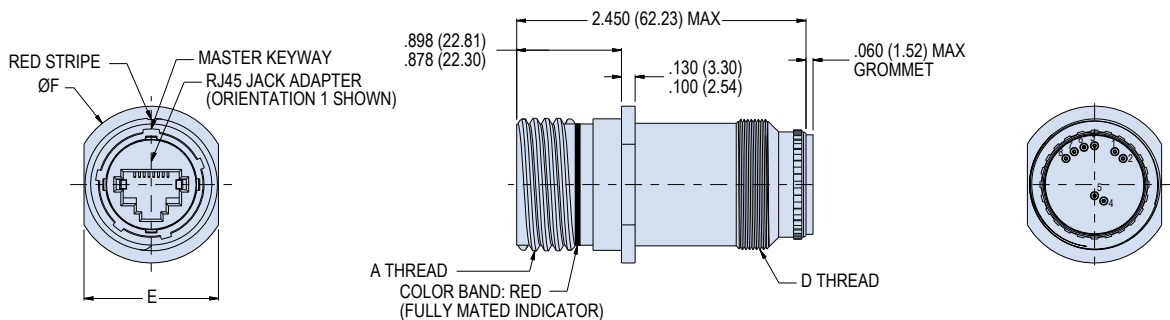
G6 - PLUG (JAM NUT RECEPTACLE & PLUG DIMENSIONS TABLE)



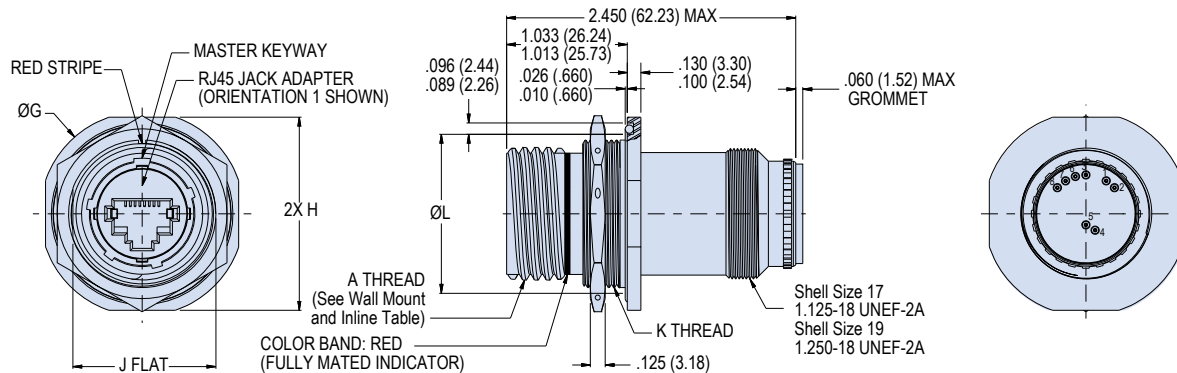
D0 - WALL MOUNT RECEPTACLE (WALL MOUNT & INLINE RECEPTACLE DIMENSIONS TABLE)



05 - RECEPTACLE, INLINE (WALL MOUNT & INLINE RECEPTACLE DIMENSIONS TABLE)



07 - JAM NUT MOUNT RECEPTACLE (JAM NUT RECEPTACLE & PLUG DIMENSIONSTABLE)





USB 2.0 TYPE A 28840 SuperSeal™



900-340 Coupler with Accessory Threads and USB
Male-to-Female (Plug) or Female-to-Female (Receptacle)

H

How to Order										
Part Number Example		900-340	NF	D0	-15	2	A	A	1	H
Basic Number	900-340									
Material/Finish	See Material and Finish Options Table									
Connector Style	D0 = Receptacle, Wall Mount 05 = Receptacle, Inline 07 = Receptacle, Jam Nut G6 = Plug									
Shell Size	15									
USB Performance	2 = USB 2.0									
USB Interface Type (Front)	A = Type A									
USB Interface Type (Back)	A = Type A									
Alternate Polarization	1, 2, 3, 4, 5, and 6 See connector specifications page for further information (Per MIL-DTL-28840)									
USB Orientation	H = Horizontal V = Vertical (See below for options)									

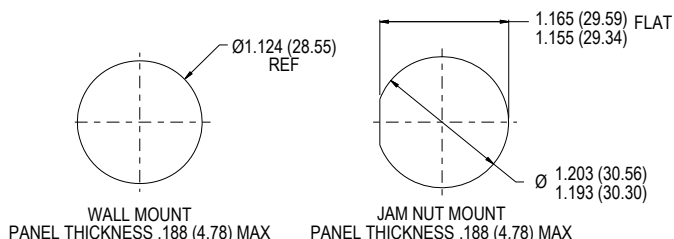
USB 2.0 Wiring			
Pin	Name	Cable Color (USB)	Description
1	(V BUS)	Red	+5 V
2	(D-)	White	Data -
3	(D+)	Green	Data +
4	(GND)	Black	Ground

Material and Finish Options		
Code	Material	Finish Description
NF	Aluminum	Cadmium O. D. Over Electroless Nickel (500 hour Salt Spray)
ZN		Zinc Nickel, Olive Drab
MT		Nickel-PTFE, 1000 Hour Grey™
Z1	Stainless Steel	Passivate
ZU		Black Cadmium Over Nickel
AB	Marine Bronze	None (Clean Only)

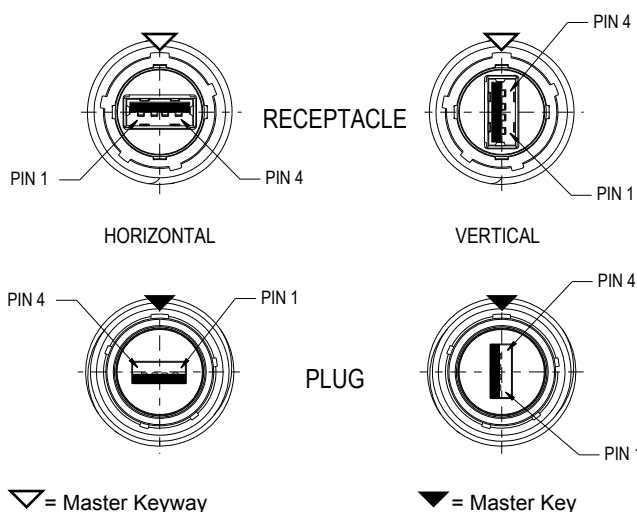
NOTES

1. Connector and contacts shall meet general requirements of MIL-DTL-28840 and USB receptacle meets USB 2.0 standard.
2. Connector meets IP67 in the unmated condition.
3. Connector accessory features per M28840 connector designator G. Consult factory for shrink boot option and accessory selection.

RECOMMENDED PANEL CUT-OUTS



USB ORIENTATION OPTIONS



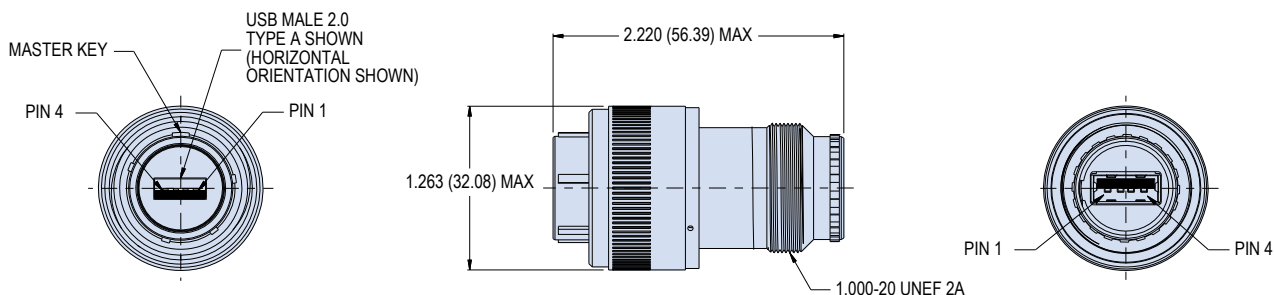


USB 2.0 TYPE A 28840 SuperSeal™

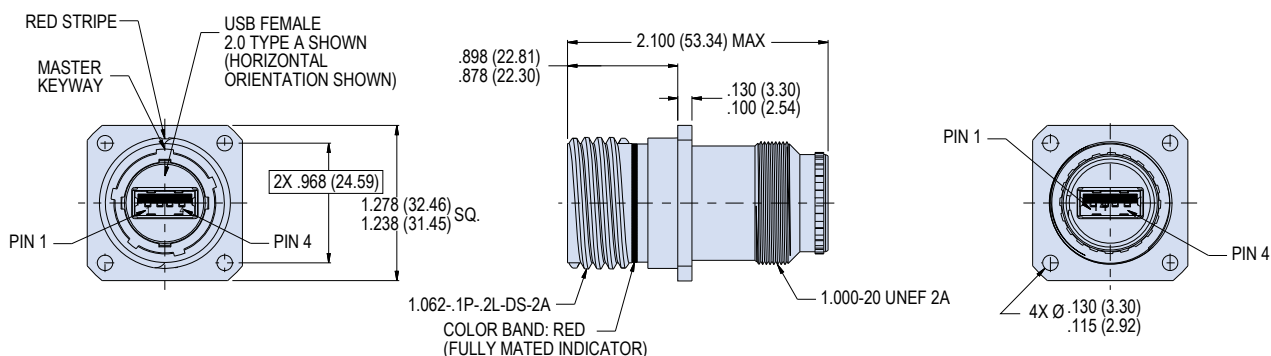


900-340 Coupler with Accessory Threads and USB Male-to-Female (Plug) or Female-to-Female (Receptacle)

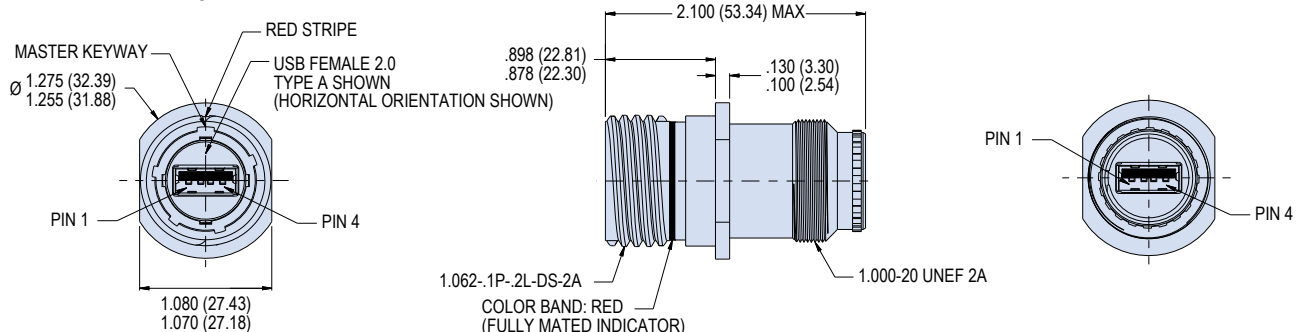
G6 - PLUG



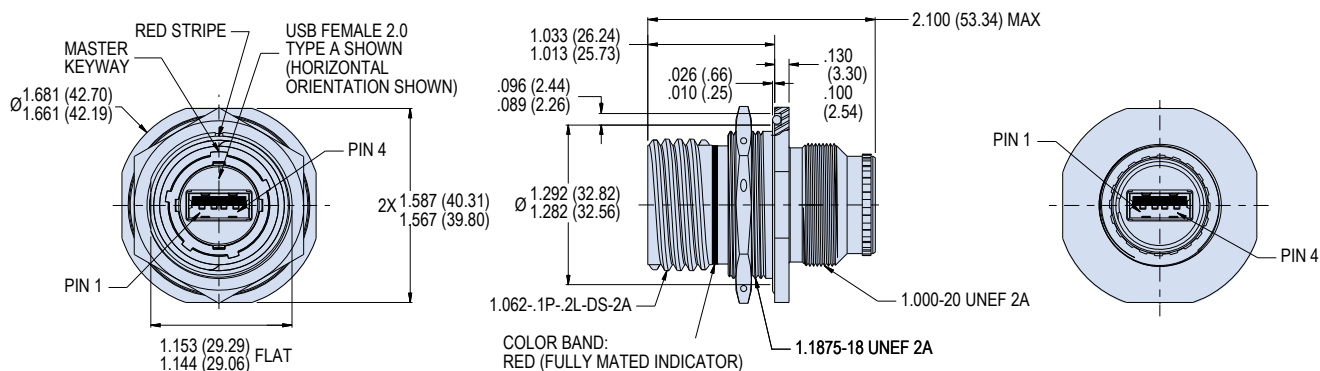
D0 - WALL MOUNT RECEPTACLE



05 - RECEPTACLE, INLINE



07 - JAM NUT MOUNT RECEPTACLE





USB 2.0 TYPE A 28840 SuperSeal™



900-345 Connector with USB Male (Plug) or Female (Receptacle) to Crimp Removable Contacts

H

How to Order									
Part Number Example	900-345	NF	D0	-15	2	A	1	H	
Basic Number	900-345								
Material/Finish	See Material and Finish Options Table								
Connector Style	D0 = Receptacle, Wall Mount 05 = Receptacle, Inline 07 = Receptacle, Jam Nut G6 = Plug								
Shell Size	15								
USB Performance	2 = USB 2.0								
USB Interface Type	A = Type A								
Alternate Polarization	1, 2, 3, 4, 5, and 6 See connector specifications page for further information (Per MIL-DTL-28840)								
USB Orientation	H = Horizontal V = Vertical								

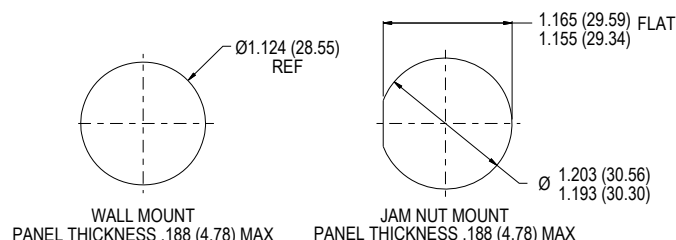
Material and Finish Options		
Code	Material	Finish Description
NF	Aluminum	Cadmium O. D. Over Electroless Nickel (500 hour Salt Spray)
ZN		Zinc Nickel, Olive Drab
MT		Nickel-PTFE, 1000 Hour Grey™
Z1	Stainless Steel	Passivate
ZU		Black Cadmium Over Nickel
AB	Marine Bronze	None (Clean Only)

USB 2.0 Wiring				
Pin	Name	Cable Color (USB)	Description	Recommended Wire Sizes (AWG)
1	(V BUS)	Red	+5 V	22
2	(D-)	White	DATA -	28
3	(D+)	Green	DATA +	28
4	(GND)	Black	GROUND	22

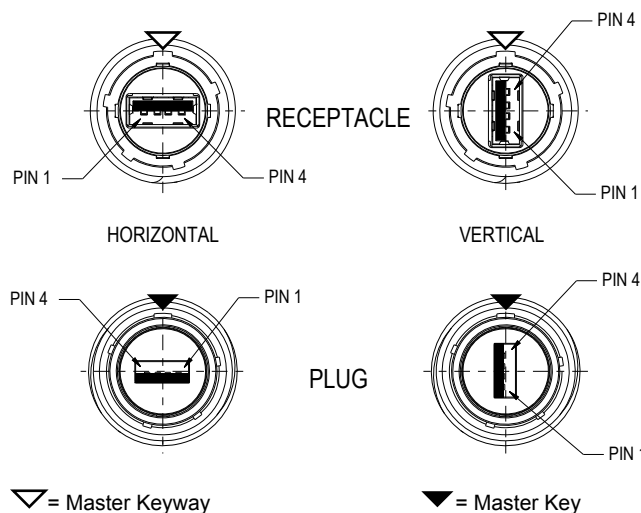
NOTES

- Connector shall meet general requirements of MIL-DTL-28840. USB connector shall be per USB 2.0 standard.
- Crimp removable contacts conform to: M39029/56-348 - size 22 socket contacts (supplied loose). Connector meets IP67 in the unmated condition
- Connector accessory features per M28840 connector designator G. Consult factory for crimp tool and accessory selection.

RECOMMENDED PANEL CUT-OUTS



USB ORIENTATION OPTIONS



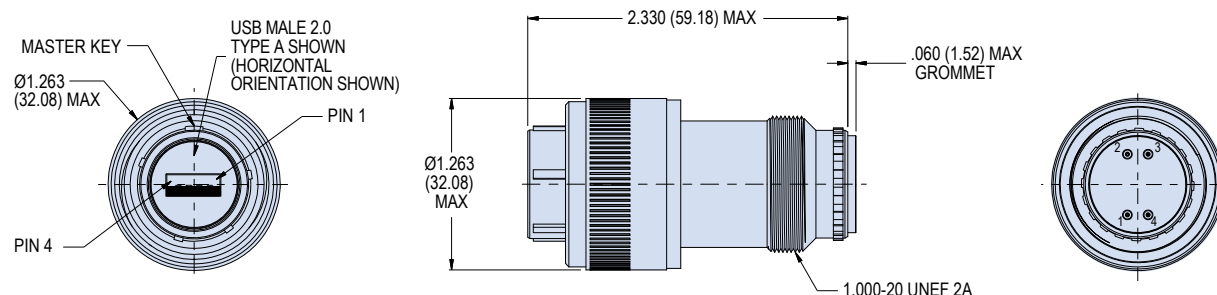


USB 2.0 TYPE A 28840 SuperSeal™

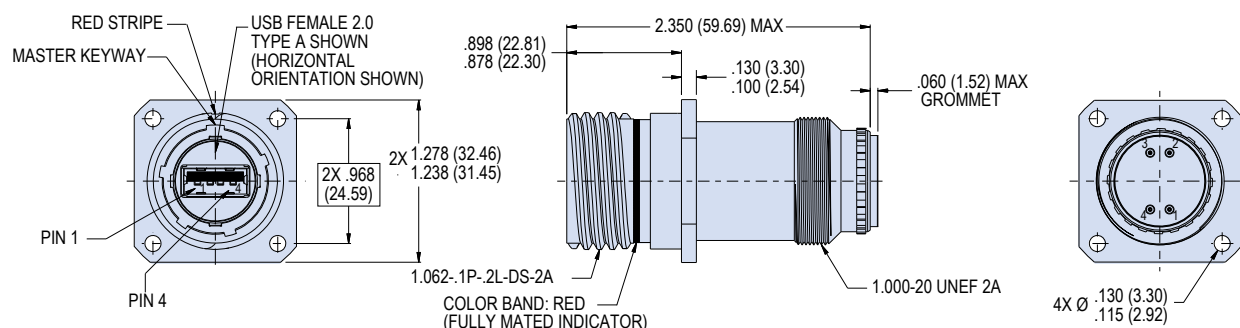


900-345 Connector with USB Male (Plug) or Female (Receptacle) to Crimp Removable Contacts

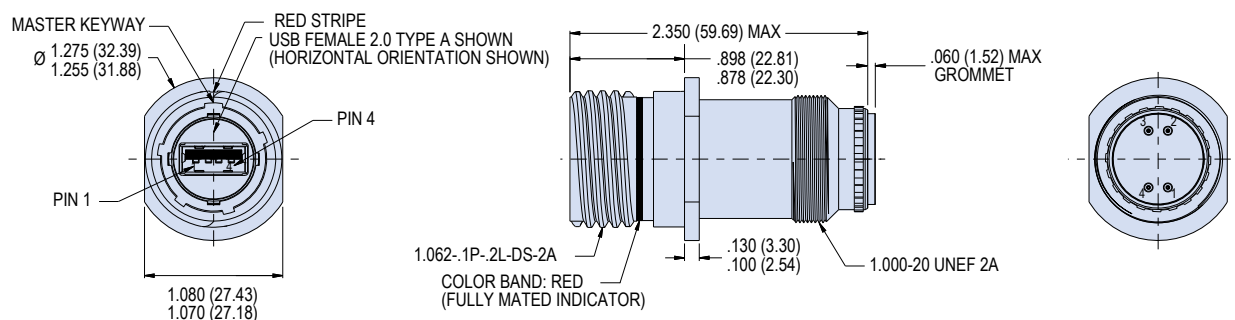
G6 - PLUG



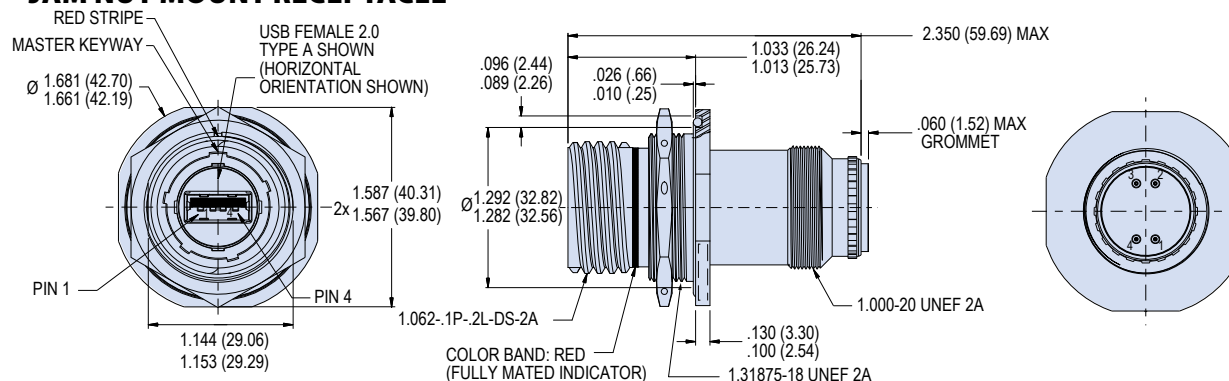
D0 - WALL MOUNT RECEPTACLE



05 - RECEPTACLE, INLINE



07 - JAM NUT MOUNT RECEPTACLE



SERIES 80
MIGHTY MOUSE
MICRO USB

SUPERSEAL™

Series 801, 804 and 805 Mighty Mouse Micro USB connectors with robust sealing, shielding and a variety of termination options.



Mighty Mouse Micro USB Advantages

- Reliable sealing—IP67 unmated, IP68 mated—for complete system protection against water, sand and dust
- Fast and reliable crimp contact termination
- Versatile back end: integrated banding porch shrink boot or connector accessory interface
- Support for both micro USB 2.0 “B” male and “AB” female interfaces
- Mating style for every application requirement including double-start stub ACME threaded coupling, QDC push-pull, and triple-start threaded versions
- Less than half the size and weight compared to MIL-DTL-38999 type solutions



Glenair, Inc.
1211 Air Way
Glendale, CA 91201-2497
818-247-6000
sales@glenair.com
www.glenair.com



MICRO USB 2.0

Series 801, 804 and 805 Mighty Mouse



Product Selection Guide

Series 801 Double Start



801-082 and 801-083 Page J-2
SuperSeal™ Plug with USB Micro “B” Male Interface to Crimp Removable Contacts and Accessory Options.

801-084 and 801-085 Page J-3
SuperSeal™ Receptacle with USB Micro “AB” Female Interface to Crimp Removable Contacts and Accessory Options.

801-087 and 801-088 Page J-4
SuperSeal™ Plug Adapter with USB Micro “B” Male-to-Male Interface and Accessory Options.

801-089 and 801-090 Page J-5
SuperSeal™ Receptacle Adapter with USB Micro “AB” Female-to-Female Interface. and Accessory Options

801-091 Page J-6
SuperSeal™ Sav-Con® Connector Saver with USB Micro “B” Male Interface to “AB” Female Interface.

Series 804 Push/Pull



804-082 and 804-083 Page J-7
SuperSeal™ Plug with USB Micro “AB” Female Interface to Crimp Removable Contacts and Accessory Options.

804-084 and 804-085 Page J-8
SuperSeal™ Receptacle with USB Micro “AB” Female Interface to Crimp Removable Contacts and Accessory Options.

804-087 and 804-088 Page J-9
SuperSeal™ Plug Adapter with USB Micro “AB” Female-to-Female Interface. and Accessory Options

804-091 Page J-10
SuperSeal™ Sav-Con® Connector Saver with USB Micro “AB” Female Interface to Micro “B” Male Interface.

Series 805 Triple Start



805-082 and 805-083 Page J-11
SuperSeal™ Plug with USB Micro “B” Male Interface to Crimp Removable Contacts and Accessory Options.

805-084 and 805-085 Page J-12
SuperSeal™ Receptacle with USB Micro “AB” Female Interface to Crimp Removable Contacts and Accessory Options.

805-087 and 805-088 Page J-13
SuperSeal™ Plug Adapter with USB Micro “B” Male-to-Male Interface and Accessory Options.

805-089 and 805-090 Page J-14
SuperSeal™ Receptacle Adapter with USB Micro “AB” Female-to-Female Interface. and Accessory Options

805-091 Page J-15
SuperSeal™ Sav-Con® Connector Saver with USB Micro “B” Male Interface to Micro “AB” Female Interface.



MICRO USB 2.0 Series 801 Mighty Mouse



801-082 and 801-083 Plug with USB Micro "B" Male Interface to Crimp Removable Contacts

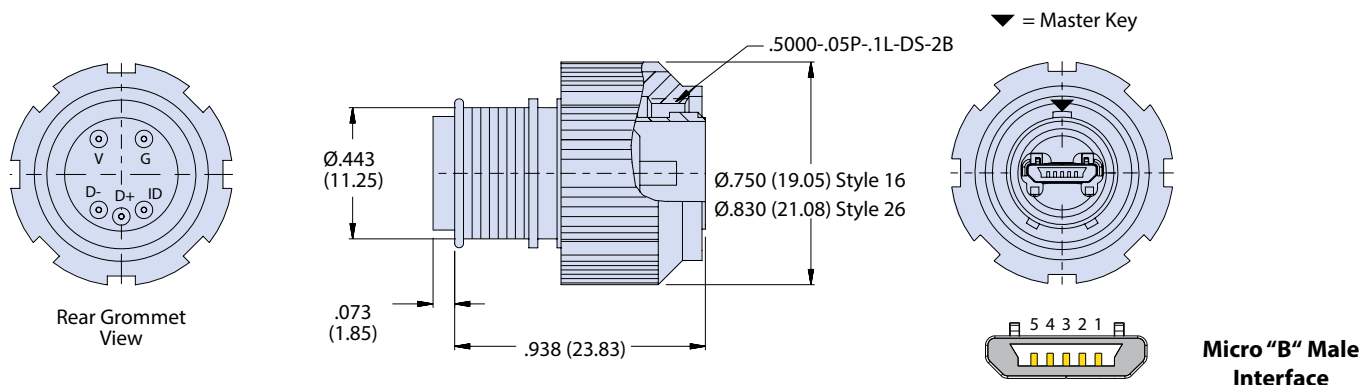
Series 801 Double Start



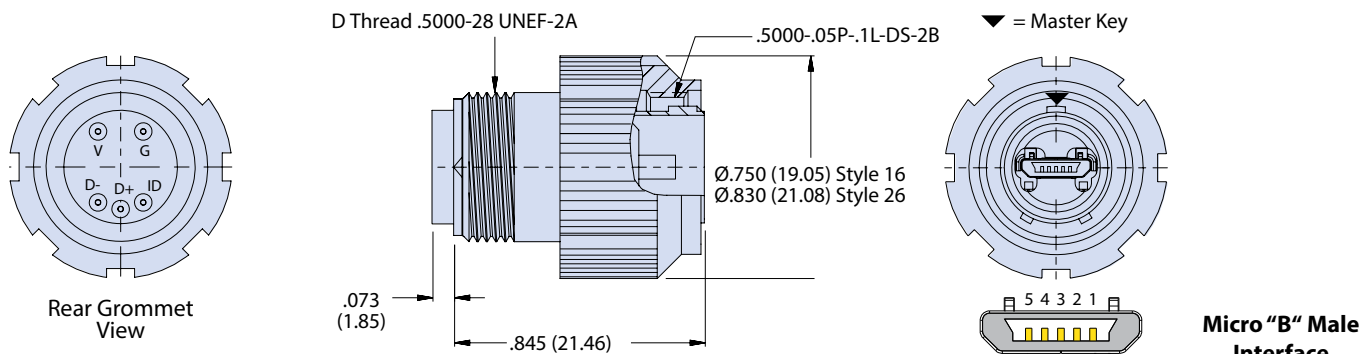
Plug and Rear
View of Crimp
Termination

How To Order				
Sample Part Number	801-082	-16 MUSB	-M	A
Series	801-082 = Shield Termination Porch 801-083 = Accessory Threads			
Shell Style ¹	16 = Plug with Anti-Decoupling Spring 26 = Self-Locking Plug with Ratchet Mechanism			
Shell Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel			
Alternate Key Positions ¹	A, B, C, D, E, F			

801-082 PLUG WITH SHIELD TERMINATION PORCH, SHELL SIZE 8



801-083 PLUG WITH ACCESSORY THREADS, SHELL SIZE 8



NOTES

- See Section A for alternate keyway positions and additional finishes.
- Plug connectors mate with Glenair receptacles 801-084, 801-085, 801-089 and 801-090
- Contacts are crimp type, and used in rear release retention system (809-001)

Wire Schematic				
Rear Grommet Side			Mating Side	
Label	Cable Color (Typ)		ID	Micro USB Pin Description
V	Red		1	VBUS (V)
G	Black		2	D-
D-	White		3	D+
D+	Green		4	ID
ID	None		5	GND (G)
		⏏ Ground		



MICRO USB 2.0 Series 801 Mighty Mouse



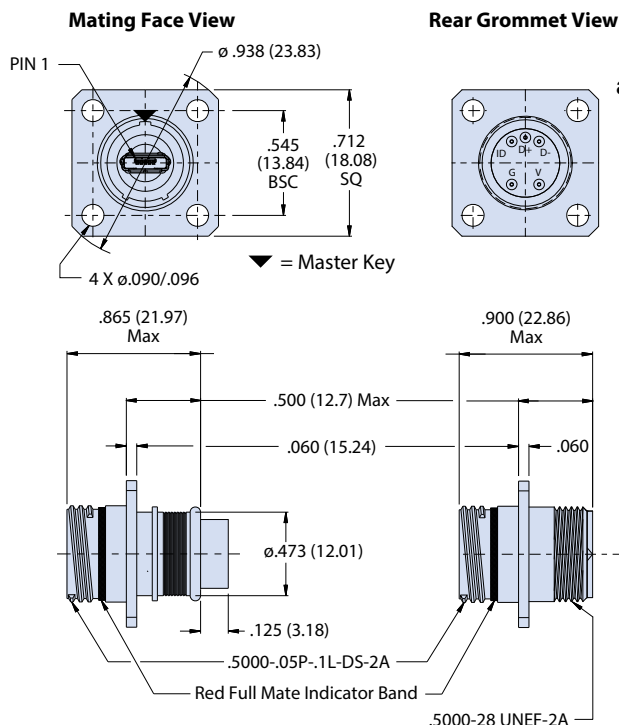
801-084 and 801-085 Receptacle with USB Micro "AB" Female Interface to Crimp Removable Contacts



Receptacles
and Rear View of
Crimp Termination

How To Order				
Sample Part Number	801-084	-02 MUSB	-M	A
Series	801-084 = Shield Termination Porch 801-085 = Accessory Threads			
Shell Style ¹	02 = Square Flange Mount Receptacle 07 = Jam Nut Mount Receptacle			
Shell Material and Finish ¹	NF = AL/Cadmium, Olive Drab M = AL/Electroless Nickel MT = AL/Nickel PTFE ZNU = AL/Black Zinc Nickel			
Alternate Key Positions ¹	A, B, C, D, E, F			

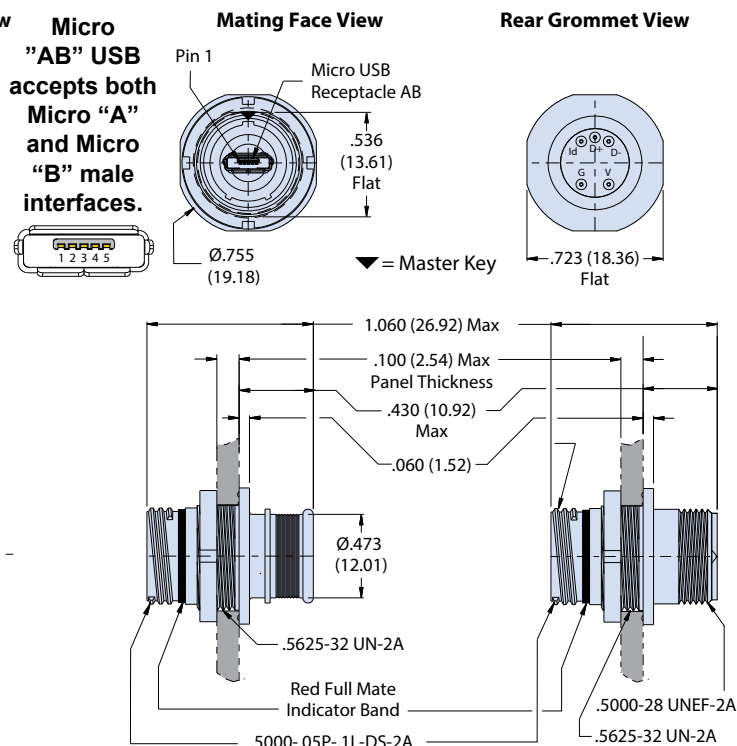
801-084-02 AND 801-085-02 SQUARE FLANGE



801-084-02 Receptacle
with Shield Termination Porch

801-085-02 Receptacle
with Accessory Threads

801-085-07 AND 801-085-07 JAM NUT



801-084-07 Receptacle
with Shield Termination Porch

801-085-07 Receptacle
with Accessory Threads

NOTES

- See Section A for recommended panel, additional finishes and alternate keyway positions.
- Receptacle connectors mate with Glenair plugs 801-082, 801-083, 801-087 and 801-088
- Contacts are crimp type, and used in rear release retention system (809-001)

Wire Schematic				
Rear Grommet Side			Mating Side	
Label	Cable Color (Typ)		ID	Micro USB Pin Description
V	Red		1	VBUS (V)
G	Black		2	D-
D-	White		3	D+
D+	Green		4	ID
ID	None		5	GND (G)
		⏏ Ground		



MICRO USB 2.0

Series 801 Mighty Mouse

801-087 and 801-088 Plug Adapter with USB Micro "B" Male Interface

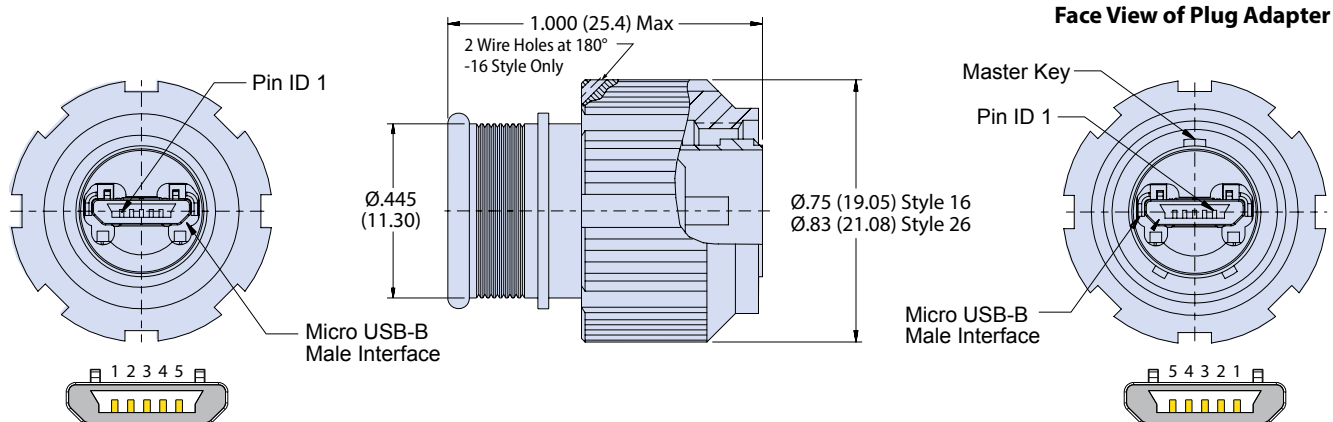


Plug and Rear View of Micro "B" Male Interface

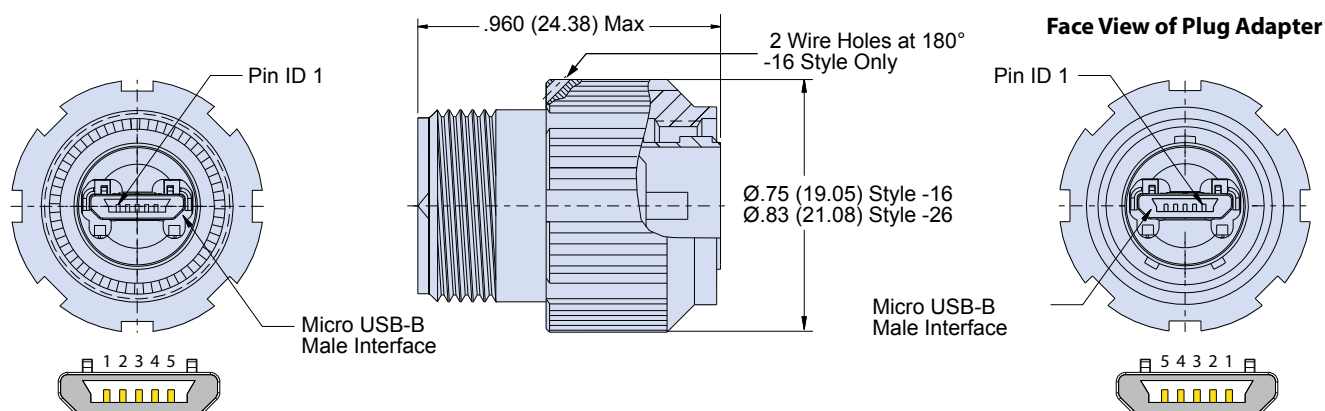


How To Order				
Sample Part Number	801-087	-16 MUSB	-M	A
Series	801-087 = Shield Termination Porch 801-088 = Accessory Threads			
Shell Style ¹	16 = Plug with Anti-Decoupling Spring 26 = Self-Locking Plug with Ratchet Mechanism			
Shell Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel			
Shell Key Positions	A, B, C, D, E, F			

801-087 WITH SHIELD TERMINATION PORCH, SHELL SIZE 8



801-088 PLUG WITH ACCESSORY THREADS, SHELL SIZE 8



NOTES

1. See Section A for alternate keyway positions, and additional finishes
2. Plug connectors mate with Glenair receptacles 801-084, 801-085, 801-089 and 801-090



MICRO USB 2.0

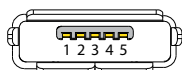
Series 801 Mighty Mouse



801-089 and 801-090 Receptacle Adapter with USB Micro "AB" Female-to-Female Interface



Receptacle with Micro "AB" Front and Rear Female Interface



Receptacle and Rear View of Micro "AB" Female Interface

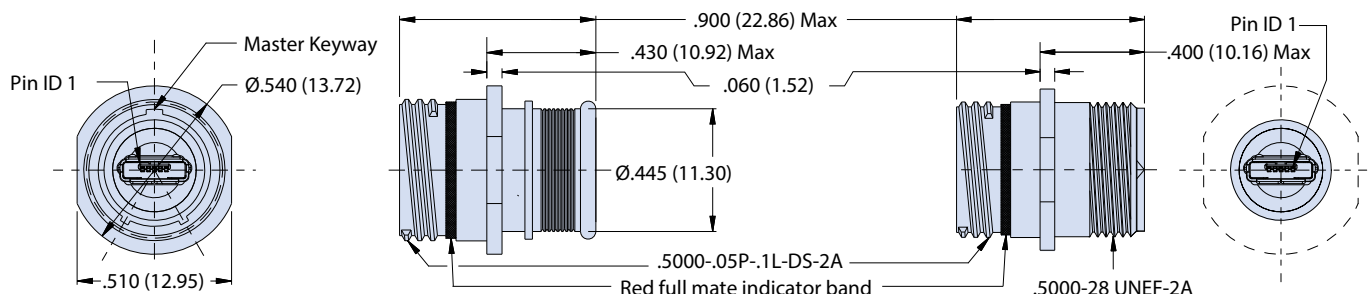
How To Order				
Sample Part Number	801-089	-02 MUSB	-M	A
Series	801-089 = Shield Termination Porch 801-090 = Accessory Threads			
Shell Style*	01 = In Line Receptacle 07 = Jam Nut Rear Mount Receptacle 02 = Square Flange Front or Rear Mount Receptacle			
Shell Material and Finish*	NF = AL/Cadmium, Olive Drab M = AL/Electroless Nickel MT = AL/Nickel PTFE ZNU = AL/Black Zinc Nickel			
Shell Key Positions*	A, B, C, D, E, F			

*See Section A for recommended panel cutout, alternate keyway positions, and additional finishes.
Mates with Glenair plugs 801-082, 801-083, 801-087, and 801-088

801-089-01 AND 801-090-01 INLINE RECEPTACLE ADAPTER, SHELL SIZE 8

805-089-01 Receptacle with Shield Termination Porch

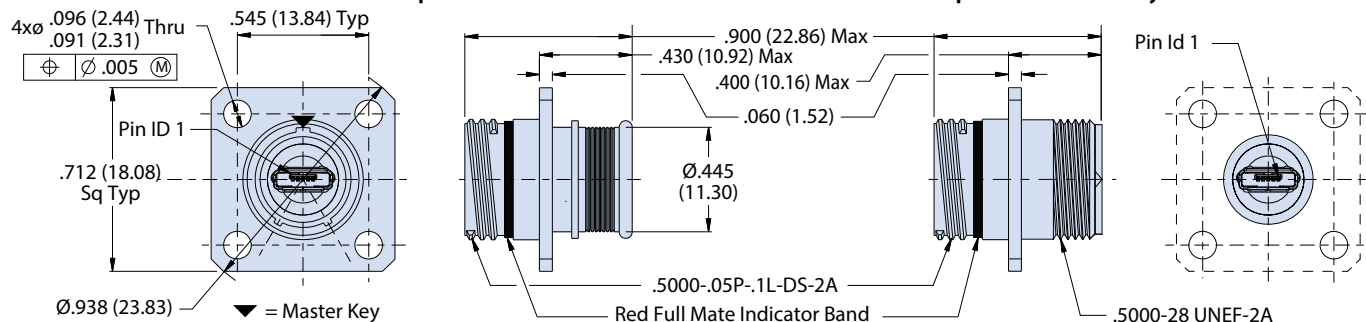
801-090-01 Receptacle with Accessory Thread



801-089-02 AND 801-090-02 SQ FLANGE RECEPTACLE ADAPTER, SHELL SIZE 8

805-089-02 Receptacle with Shield Termination Porch

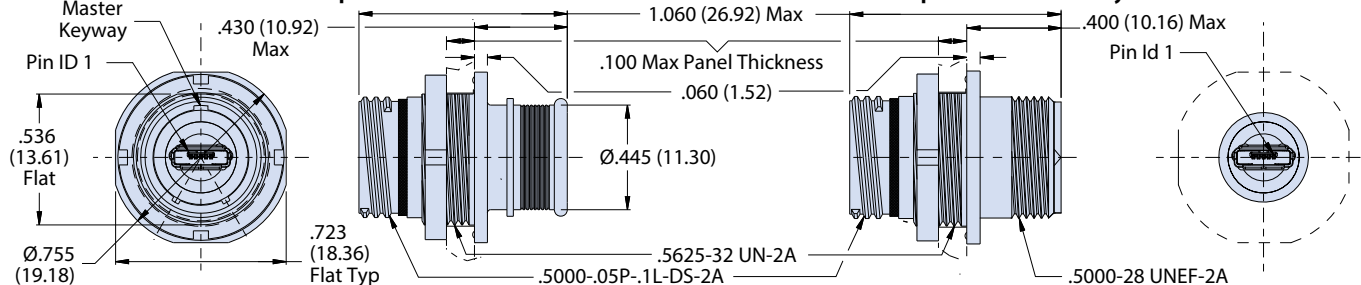
801-090-02 Receptacle with Accessory Thread



801-089-07 AND 801-090-07 JAM NUT RECEPTACLE WITH, SHELL SIZE 8

805-089-07 Receptacle with Shield Termination Porch

801-090-07 Receptacle with Accessory Thread





MICRO USB 2.0

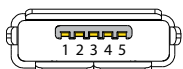
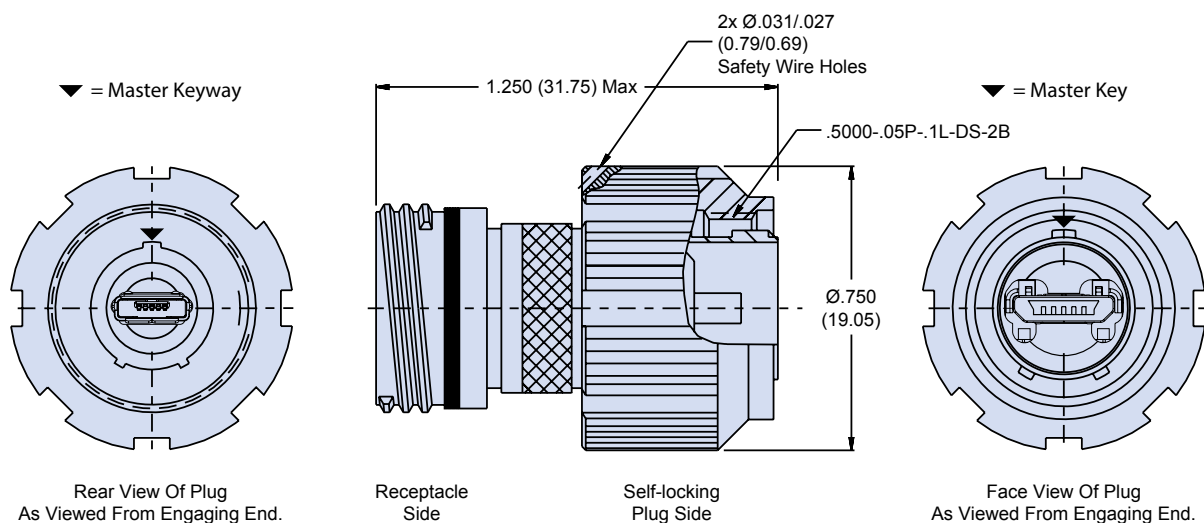
Series 801 Mighty Mouse



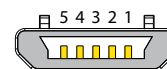
801-091 Sav-Con® Connector Saver with USB Micro “B” Male Interface to “AB” Female Interface

How To Order			
Sample Part Number	801-091 -MUSB	-M	A
Series	801-091 = Plug/Receptacle Sav-Con® Connector Saver		
Shell Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab		
	M = Electroless Nickel		
	MT = Nickel PTFE		
	ZNU = Black Zinc Nickel		
Shell Key Positions	A, B, C, D, E, F		

801-091 SAV-CON MICRO “B” MALE TO “AB” FEMALE INTERFACE, SHELL SIZE 8



Receptacle Side with
Micro “AB” Female Interface



Plug Side with
Micro “B” Male Interface

NOTES

1. See Section A for additional finishes and alternate keyway positions.



MICRO USB 2.0

Series 804 Push/Pull Mighty Mouse



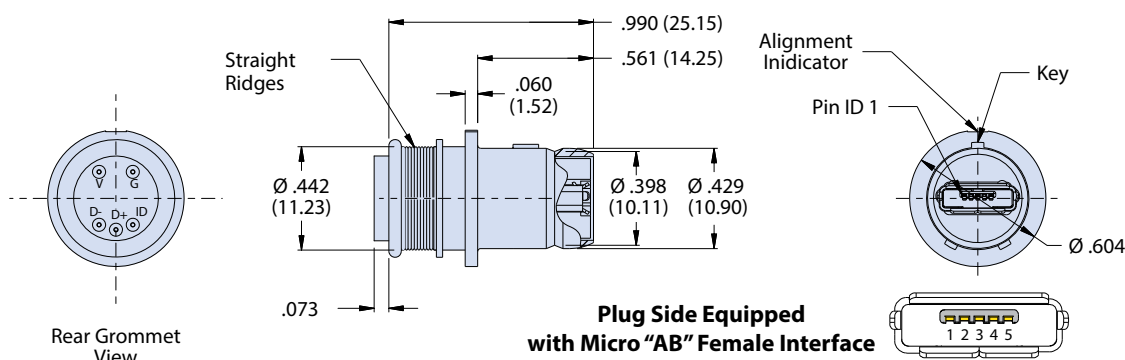
804-082 and 804-083 Plug with USB Micro "AB" Female Interface to Crimp Removable Contacts



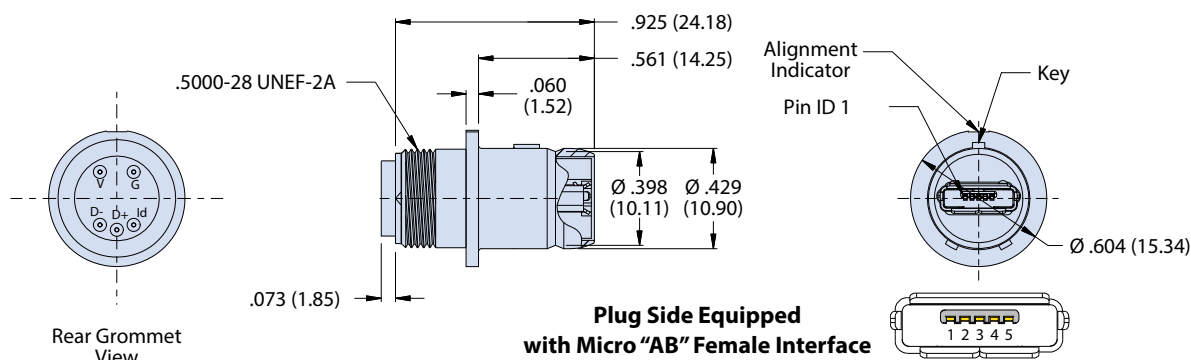
Plug and Rear View of Crimp Termination

How To Order				
Sample Part Number	804-082	-06 MUSB	-M	A
Series	804-082 = Shield Termination Porch 804-083 = Accessory Threads			
Shell Style	06 = Plug			
Shell Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel			
Alternate Key Positions ¹	A, B, C, D, E, F			

804-082 PLUG, SHELL SIZE 8



804-083 PLUG, SHELL SIZE 8



NOTES

1. See Section A alternate keyway positions, and additional finishes.
2. These plug connectors mate with Glenair receptacles 804-084, 804-085.
3. Contacts are crimp type, and used in rear release retention system (809-005)

Wire Schematic				
Rear Grommet Side			Mating Side	
Label	Cable Color (Typ)		ID	Micro USB Pin Description
V	Red		1	VBUS (V)
G	Black		2	D-
D-	White		3	D+
D+	Green		4	ID
ID	None		5	GND (G)
		Ground		



MICRO USB 2.0

Series 804 Push/Pull Mighty Mouse



804-084 and 804-085 Receptacle with USB Micro "B" Female Interface to Crimp Removable Contacts

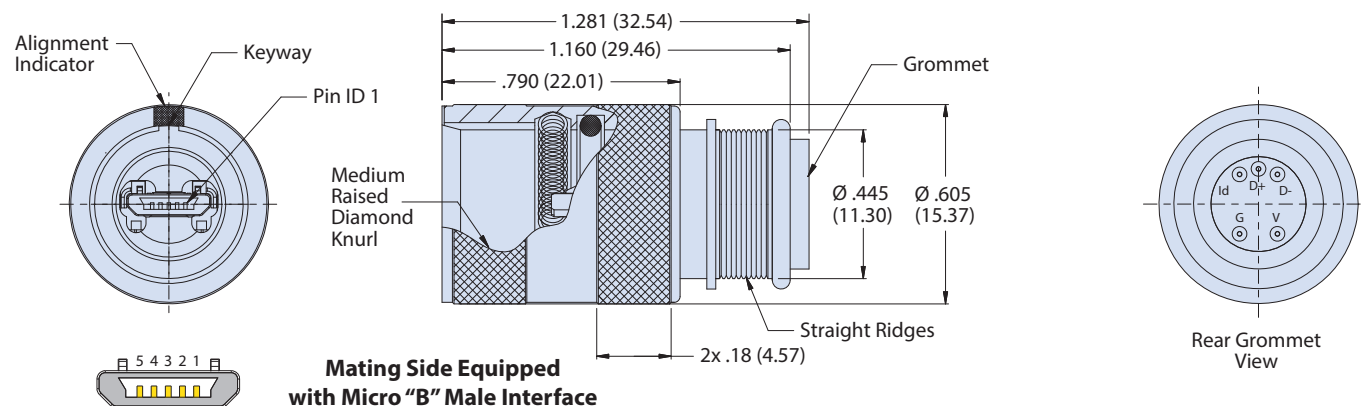
Series 804 Push/Pull



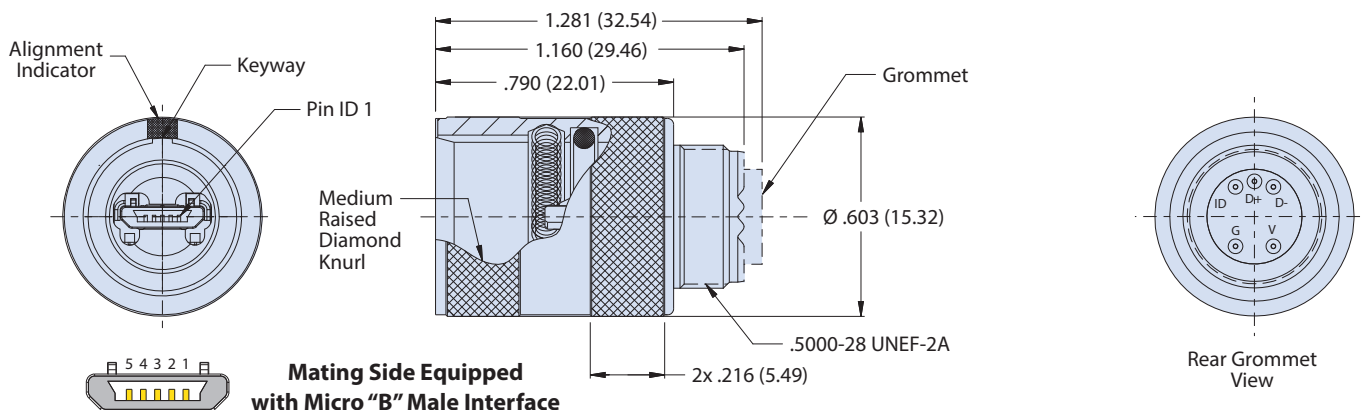
Receptacle and Rear View of Crimp Termination

How To Order					
Sample Part Number		804-084	-01 MUSB	-M	A
Series	804-084 = Shield Termination Porch 804-085 = Accessory Threads				
Shell Style	01 = In Line Receptacle				
Shell Material and Finish¹	NF = AL/Cadmium, Olive Drab MT = AL/Nickel PTFE		M = AL/Electroless Nickel ZNU = AL/Black Zinc Nickel		
Aternate Key Positions¹	A, B, C, D, E, F				

804-084 RECEPTACLE, SHELL SIZE 8^{1,2}



804-085 RECEPTACLE, SHELL SIZE 8^{1,2}



NOTES

1. See Section A for alternate keyway positions and additional finishes.
2. These plug connectors mate with Glenair receptacles 804-082, 804-083, 804-087 and 804-088.
3. Contacts are rear crimp type and are used in a rear retention system (809-005).

Wire Schematic

Rear Grommet Side		Mating Side	
Label	Cable Color (Typ)	ID	Micro USB Pin Description
V	Red	1	VBUS (V)
G	Black	2	D-
D-	White	3	D+
D+	Green	4	ID
ID	None	5	GND (G)

Ground



MICRO USB 2.0

Series 804 Push/Pull Mighty Mouse

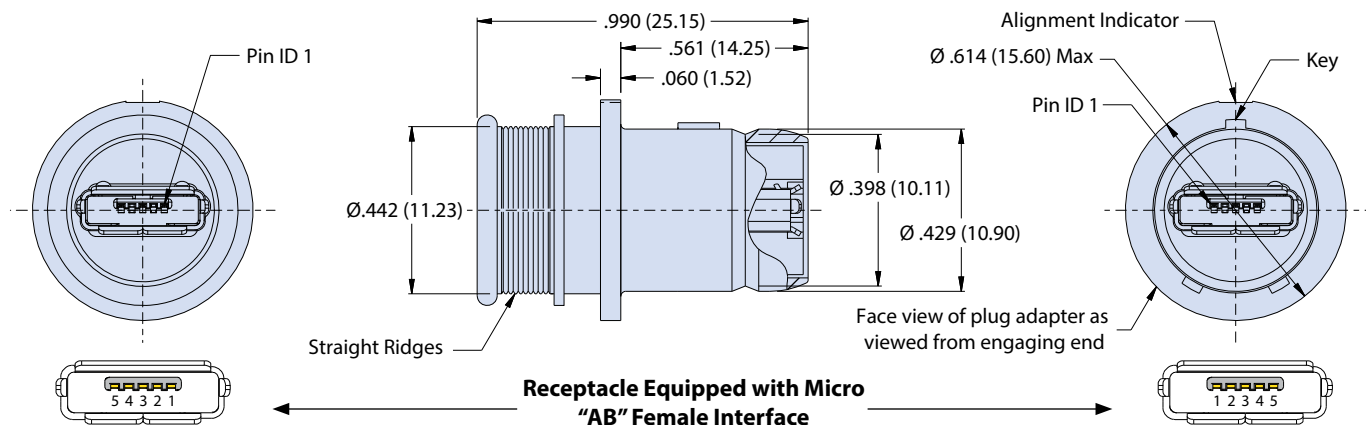
804-087 and 804-088 Plug Adapter with USB Micro "AB" Female-to-Female Interface



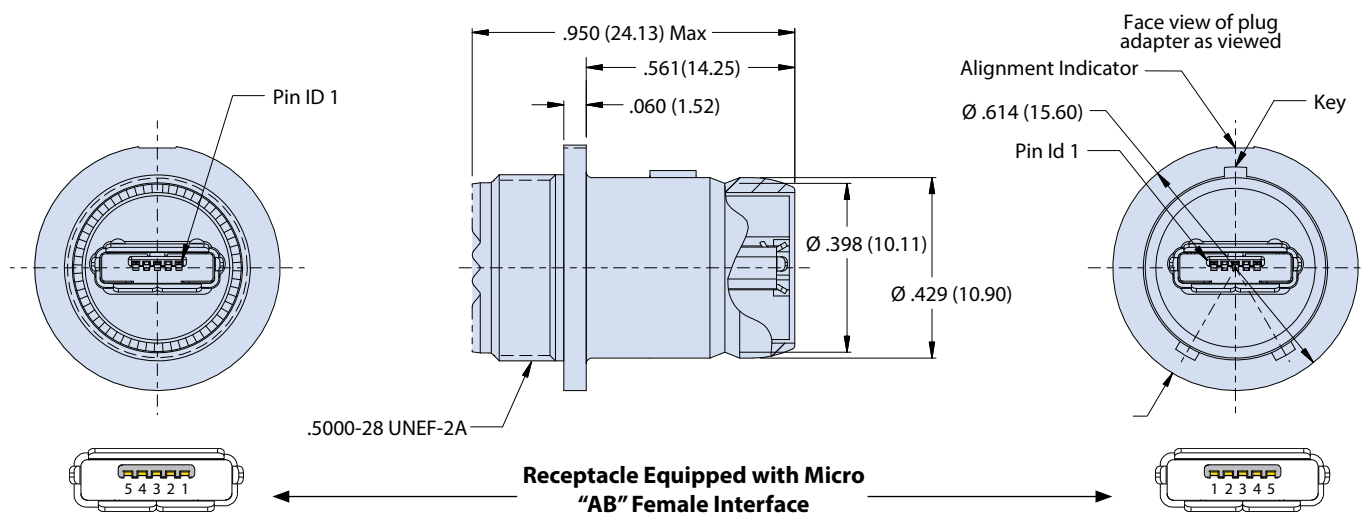
Plug and Rear View of Micro "AB" Female Interface

How To Order				
Sample Part Number	804-087	-06 MUSB	-M	A
Series	804-087 = Shield Termination Porch 804-088 = Accessory Threads			
Shell Style	06 = Plug			
Shell Material and Finish ¹	NF = AL/Cadmium, Olive Drab M = AL/Electroless Nickel MT = AL/Nickel PTFE ZNU = AL/Black Zinc Nickel			
Alternate Key Positions ¹	A, B, C, D, E, F			

804-087 PLUG ADAPTER, SHELL SIZE 8^{1,2}



804-088 PLUG ADAPTER, SHELL SIZE 8^{1,2}



NOTES

1. See Section A for recommended panel cutout, alternate keyway positions and additional finishes.
2. These plug connectors mate with Glenair receptacles 804-082, 804-083, 804-084 and 804-085.



MICRO USB 2.0

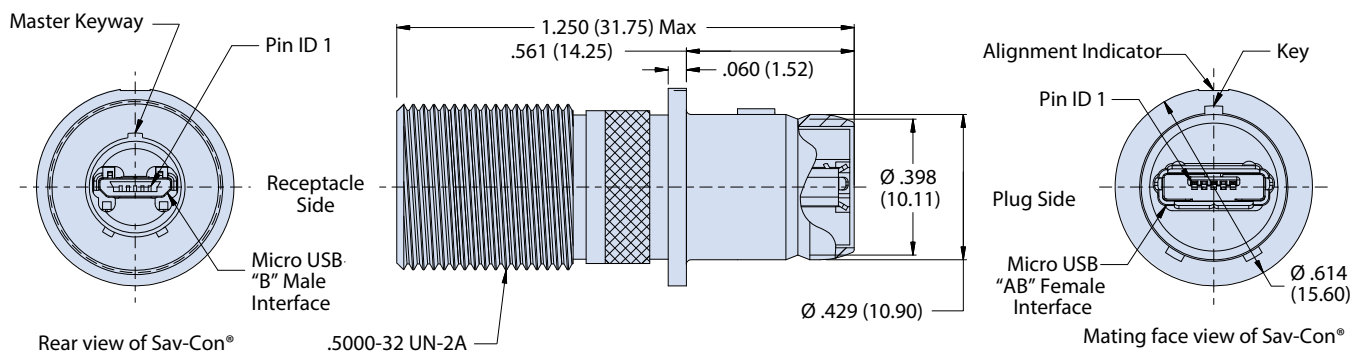
Series 804 Push/Pull Mighty Mouse



804-091 Sav-Con® Connector Saver with USB Micro "AB" Female Interface to Micro "B" Male Interface

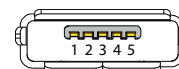
How To Order			
Sample Part Number	804-091 -MUSB	-M	A
Series	804-091 = Sav-Con® connect saver		
Shell Material and Finish ¹	NF = AL/Cadmium Olive Drab M = AL/Electroless Nickel MT = AL/Nickel PTFE ZNU = AL/Black Zinc Nickel		
Alternate Key Positions ¹	A, B, C, D, E, F		

804-091 SAV-CON®, SHELL SIZE 8¹



Rear Equipped with Micro B USB Male Interface

Plug Side Equipped with Micro AB USB Female Interface



NOTES

1. See Section A for additional finishes and alternate keyway positions.



MICRO USB 2.0 Series 805 Mighty Mouse



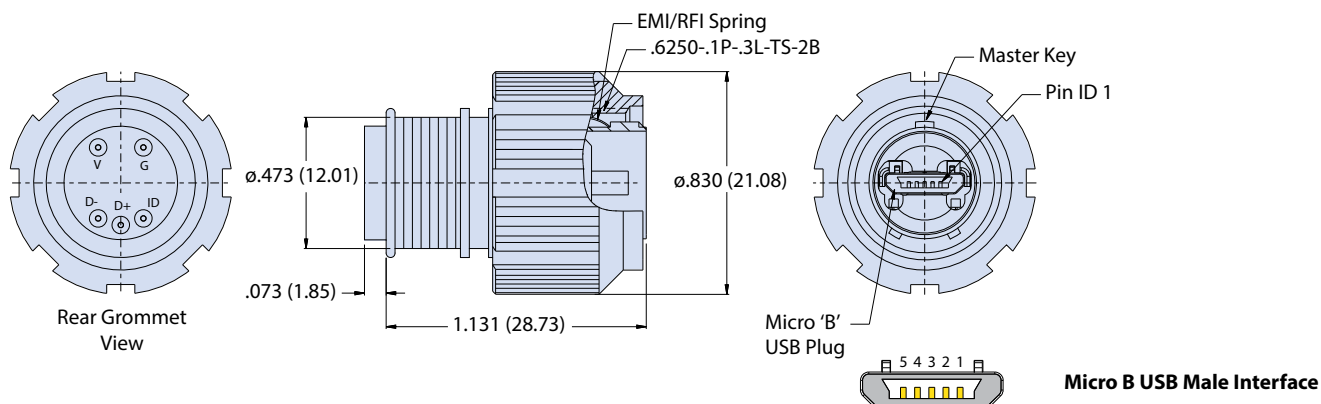
805-082 and 805-083 Plug with USB Micro "B" Male Interface to Crimp Removable Contacts



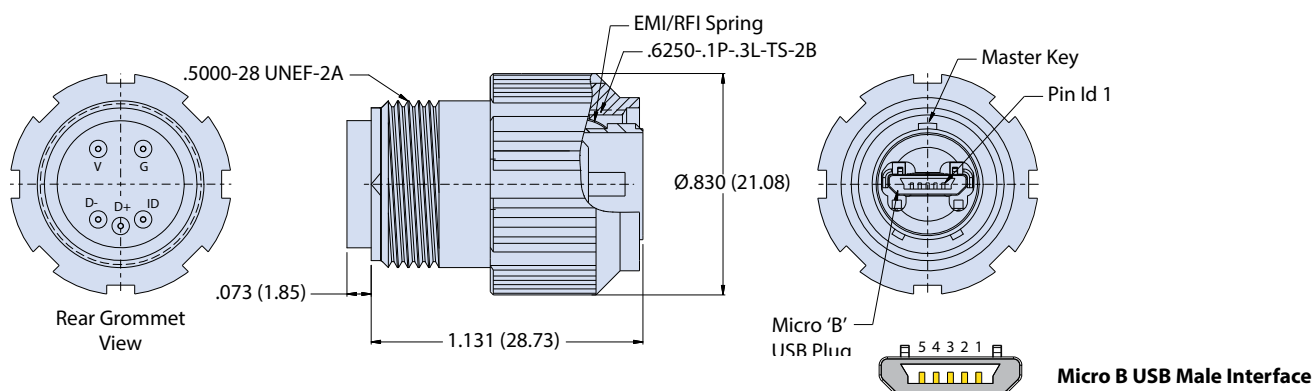
Plug and Rear View of
Crimp Termination

How To Order				
Sample Part Number	805-082	-16 MUSB	-M	A
Series	805-082 = Shield Termination Porch 805-083 = Accessory Threads			
Shell Style	16 = Plug with Anti-decoupling Spring			
Shell Material and Finish ¹	NF = AL/Cadmium, Olive Drab M = AL/Electroless Nickel MT = AL/Nickel PTFE ZNU = AL/Black Zinc Nickel			
Alternate Key Positions ¹	A, B, C, D, E, F			

805-082 PLUG WITH INTEGRAL SHIELD TERMINATION PORCH, SHELL SIZE 10^{1,2}



805-083 PLUG WITH INTEGRAL ACCESSORY THREAD, SHELL SIZE 10^{1,2}



NOTES

- See Section A for alternate keyway positions and additional finishes.
- These plug connectors mate with Glenair receptacles 805-084, 805-085, 805-089 and 805-090.

Wire Schematic				
Rear Grommet Side		Mating Side		
Label	Cable Color (Typ)	ID	Micro USB Pin Description	
V	Red	1	VBUS (V)	
G	Black	2	D-	
D-	White	3	D+	
D+	Green	4	ID	
ID	None	5	GND (G)	

Ground



MICRO USB 2.0 Series 801 Mighty Mouse



805-084 and 805-085 Receptacle with USB Micro "AB" Female Interface to Crimp Removable Contacts

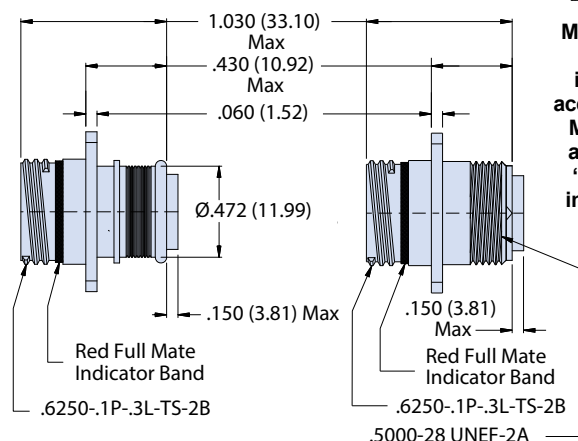
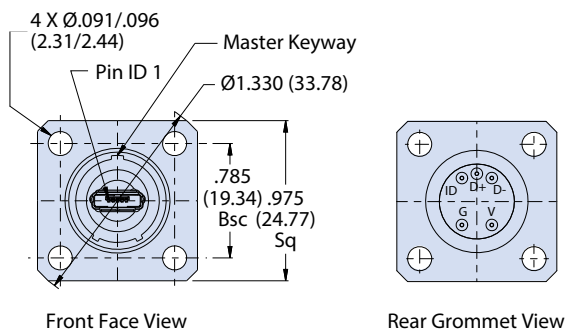
Series 805 Triple Start



Receptacles and Rear View of Crimp Termination

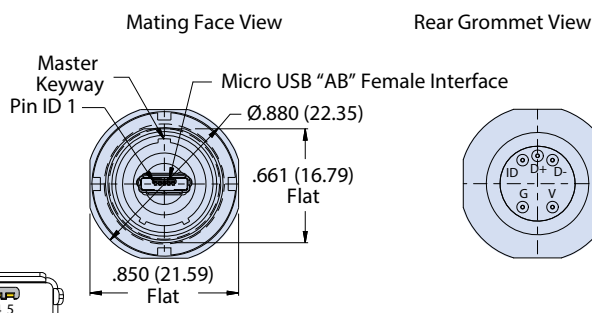
How To Order				
Sample Part Number	805-084	-07 MUSB	-M	A
Series	805-084 = Shield Termination Porch 805-085 = Accessory Threads			
Shell Style	02 = Square Flange Mount Receptacle 07 = Jam Nut Mount Receptacle			
Shell Material and Finish ¹	NF = AL/Cadmium, Olive Drab M = AL/Electroless Nickel MT = AL/Nickel PTFE ZNU = AL/Black Zinc Nickel			
Alternate Key Positions ¹	A, B, C, D, E, F			

805-084-02 AND 805-085-02 SQUARE FLANGE, SHELL SIZE 10^{1,2}

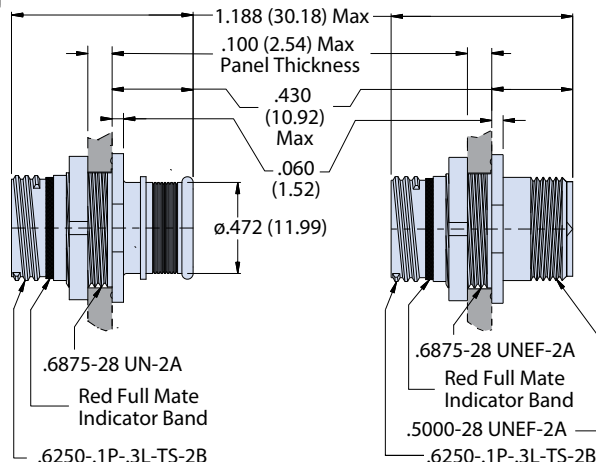


805-084-02 Receptacle with Shield Termination Porch **805-085-02 Receptacle with Accessory Threads**

805-084-07 AND 805-085-07 JAM NUT, SHELL SIZE 10^{1,2}



Micro "AB" female interface accepts both Micro "A" and Micro "B" male interfaces.



805-084-07 Receptacle with Shield Termination Porch **805-085-07 Receptacle with Accessory Threads**

NOTES

- See Section A for recommended panel cutout, additional finishes and alternate keyway positions.
- These plug connectors mate with Glenair receptacles 805-082, 805-083, 805-087 and 805-088.

Wire Schematic				
Rear Grommet Side			Mating Side	
Label	Cable Color (Typ)		ID	Micro USB Pin Description
V	Red	1	1	VBUS (V)
G	Black	2	2	D-
D-	White	3	3	D+
D+	Green	4	4	ID
ID	None	5	5	GND (G)

Ground



MICRO USB 2.0 Series 805 Mighty Mouse



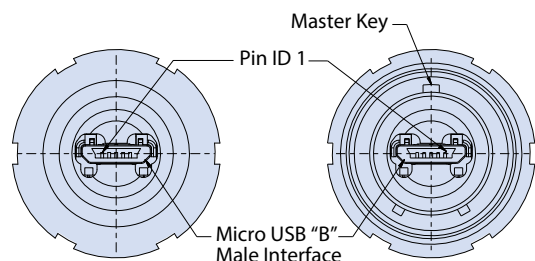
805-087 and 805-088 Plug Adapter with USB Micro "B" Male-to-Male Interface



Plug and Rear View
of Micro "B" Male Interface

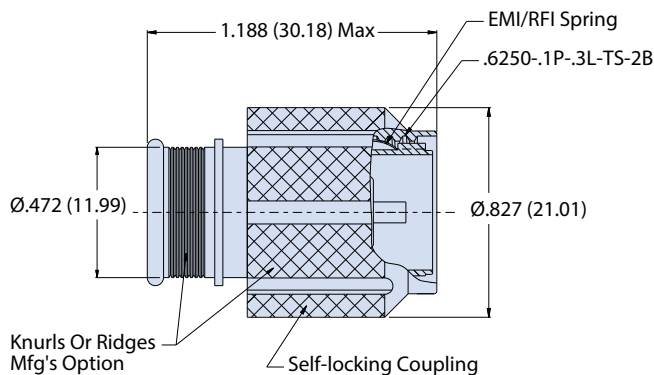
How To Order				
Sample Part Number	805-087	-16 MUSB	-M	A
Series	805-087 = Shield Termination Porch 804-088 = Accessory Threads			
Shell Style	16 = Plug with Anti-decoupling Spring			
Shell Material and Finish ¹	NF = AL/Cadmium, Olive Drab M = AL/Electroless Nickel MT = AL/Nickel PTFE ZNU = AL/Black Zinc Nickel			
Alternate Key Positions ¹	A, B, C, D, E, F			

805-087 PLUG ADAPTER, SHELL SIZE 10

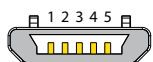


Face view of plug adapter
as viewed from cable end.

Face view of plug adapter
as viewed from engaging end.

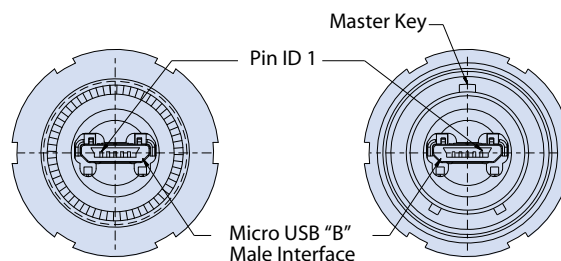


**805-087 Plug Adapter
with Shield Termination Porch**



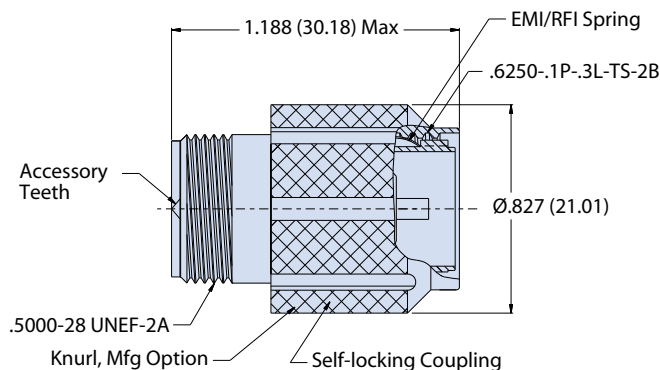
Rear Micro "B" USB Plug (Cable End)

805-088 PLUG ADAPTER, SHELL SIZE 10

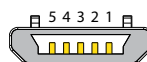


Face view of plug adapter
as viewed from cable end.

Face view of plug adapter
as viewed from engaging end.



**805-088 Plug Adapter
with Accessory Thread**



Front Micro "B" USB Plug (engaging end)

NOTES

1. See Section A for alternate keyway positions and additional finishes.
2. These plug connectors mate with Glenair receptacles 805-084, 805-085, 805-089 and 805-090.



MICRO USB 2.0 Series 805 Mighty Mouse



805-089 and 805-090 Receptacle Adapter with USB Micro "AB" Female-to-Female Interface

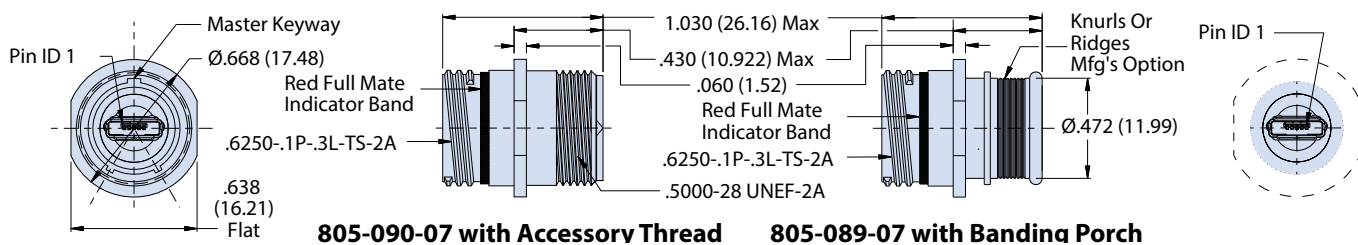
Series 805 Triple Start



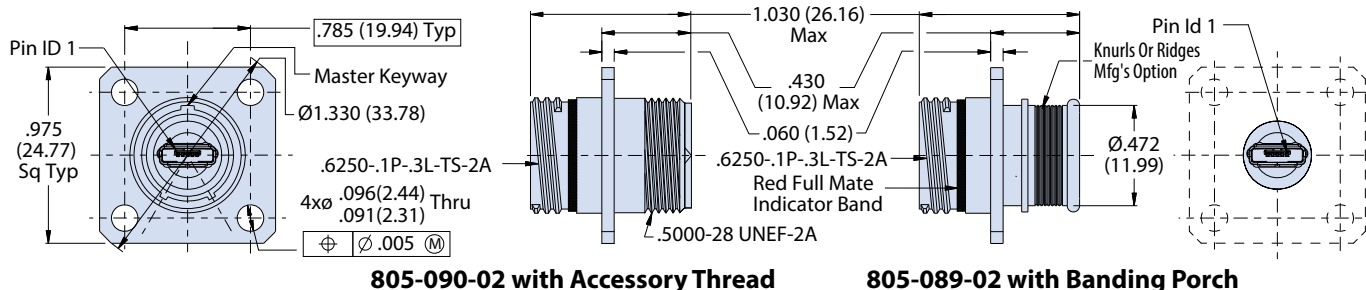
Receptacles and Rear
View of Micro-AB
Female Interface

How To Order				
Sample Part Number	805-089	-02 MUSB	-M	A
Series	805-089 = Shield Termination Porch 805-090 = Accessory Threads			
Shell Style	01 = In-line Receptacle 02 = Square Flange Mount Receptacle 07 = Jam Nut Mount Receptacle			
Shell Material and Finish ¹	NF = AL/Cadmium, Olive Drab M = AL/Electroless Nickel MT = AL/Nickel PTFE ZNU = AL/Black Zinc Nickel			
Alternate Key Positions ¹	A, B, C, D, E, F			

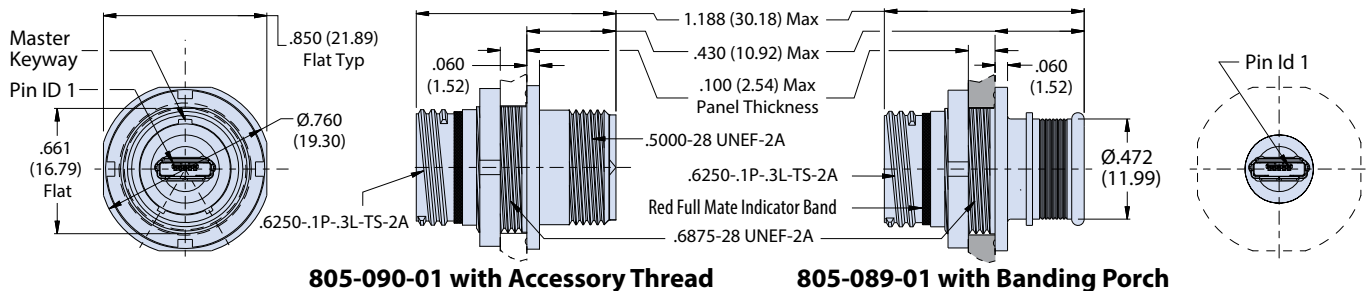
805-089 AND 805-090 IN-LINE RECEPTACLE, SHELL SIZE 10^{1,2}



805-089 AND 805-090 SQUARE FLANGE RECEPTACLE, SHELL SIZE 10^{1,2}



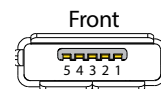
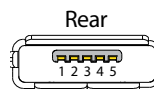
805-089 AND 805-090 JAM NUT RECEPTACLE, SHELL SIZE 10^{1,2}



NOTES

- See Section A for recommended panel cutout, finishes and alternate keyway positions.
- These plug connectors mate with Glenair receptacles 805-082, 805-083, 805-087 and 805-088.

Micro "AB" accepts both Micro "A" and "B" male interfaces.





MICRO USB 2.0

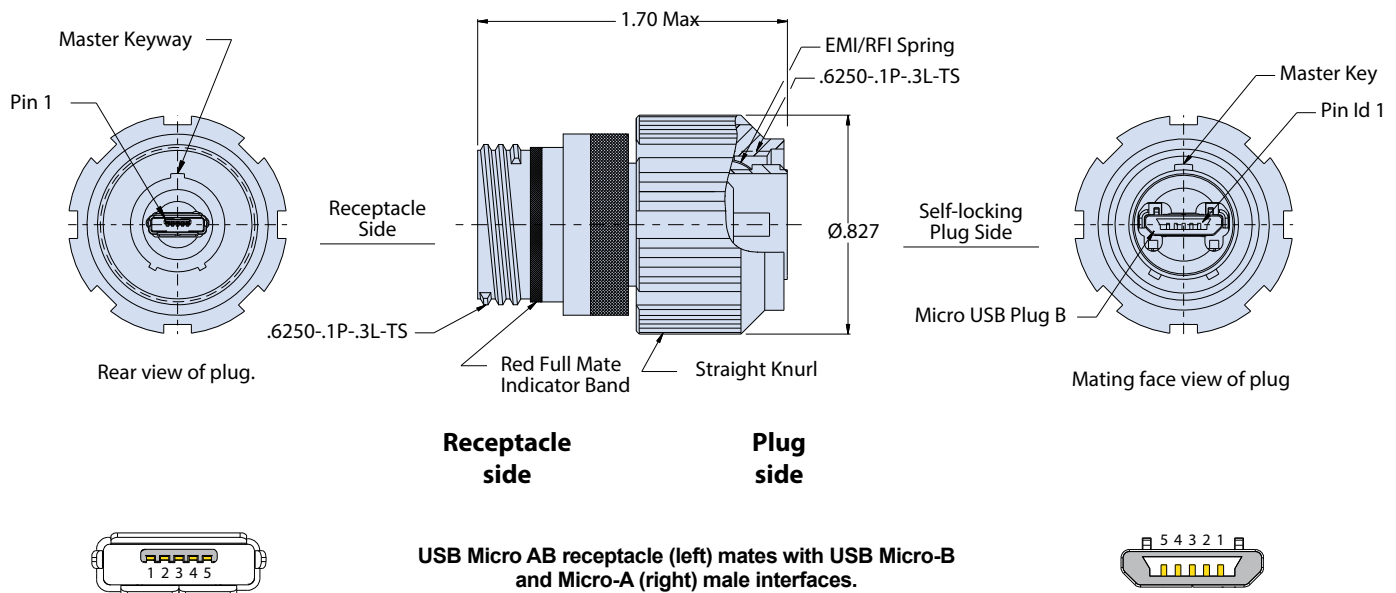
Series 805 Mighty Mouse



805-091 Sav-Con® Connector Saver with USB Micro “B” Male Interface to Micro “AB” Female Interface

How To Order			
Sample Part Number	805-091 -MUSB	-M	A
Series	805-091 = Sav-Con Connector Saver		
Shell Material and Finish ¹	NF = AL/Cadmium, Olive Drab M = AL/Electroless Nickel MT = AL/Nickel PTFE ZNU = AL/Black Zinc Nickel		
Alternate Key Positions ¹	A, B, C, D, E, F		

805-091 SAV-CON, SHELL SIZE 10^{1,2}



NOTES

- See Section A for recommended panel cutout, finishes and alternate key/keyway positions.

SERIES 80
MIGHTY MOUSE
RJ45 ETHERNET

SUPERSEAL™



The harsh environment, light weight, small form factor field Ethernet connector ideally suited for land forces communications and data networking applications



Field ready ruggedized SuperSeal™ Mighty Mouse connectors with USB 2.0 inserts are available for Series 801 with double start ACME thread, Series 804 push/pull connectors, and Series 805 with triple-start ACME thread. All three Series meet IP67 requirements in the open-face condition and are in-line shielded. Mounting styles include In-line, front or rear panel mount square flange with or without clinch nuts, jam-nut and plug connectors. Connectors are offered with RJ45 CAT 5e interfaces and support current ethernet protocols. RJ45 offers separate orientation options in addition to standard Mighty Mouse® keyway position offerings to provide greater control and convenience over the connector engagement. Connectors are available with size #23 crimp contacts, solder cup termination, PC tail termination, pin/socket contacts or Quadrax contact to standard RJ45 interface. Rear accessory options include accessory thread, integrated shrink boot adapter or integrated banding platform.



Glenair, Inc.
1211 Air Way
Glendale, CA 91201-2497
818-247-6000
sales@glenair.com
www.glenair.com

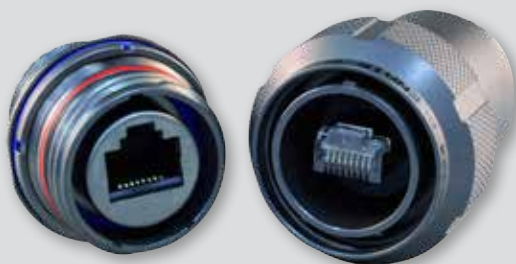


RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse Product Selection Guide



Series 801

Double-Start Threaded
Mighty Mouse Shell



801-300

Page K-2

SuperSeal™ Double-Start Coupler with Accessory Options and RJ45 Jack-to-Jack (Receptacle) or Plug-to-Jack (Plug).

801-301

Page K-4

SuperSeal™ Double-Start Connector with Accessory Options and RJ45 Plug (Plug) or Jack (Receptacle) to Crimp Removable Contacts.

801-302 and 801-303

Page K-6

SuperSeal™ Double-Start Receptacle with RJ45 Jack to PC Tail or Solder Cup Termination.

801-304

Page K-8

SuperSeal™ Double-Start Receptacle Adapter with Accessory Options and Pin/Socket Contacts to RJ45 Jack.

801-305

Page K-10

SuperSeal™ Double-Start Receptacle Adapter with Accessory Options and Quadrax Contacts to RJ45 Jack.

Series 804

Push/Pull
Mighty Mouse Shell



804-300

Page K-12

SuperSeal™ Push/Pull Coupler with Accessory Options and RJ45 Jack-to-Jack (Receptacle) or Plug-to-Jack (Plug).

804-301

Page K-14

SuperSeal™ Push/Pull Connector with Accessory Options and RJ45 Plug (Plug) or Jack (Receptacle) to Crimp Removable Contacts.

804-302 and 804-303

Page K-16

SuperSeal™ Push/Pull Receptacle with RJ45 Jack-to-PC Tail or Solder Cup Termination.

804-305

Page K-18

SuperSeal™ Push/Pull Receptacle Adapter with Accessory Options and Quadrax Contacts to RJ45 Jack.

Series 805

Triple-Start Threaded
Mighty Mouse Shell



805-300

Page K-20

SuperSeal™ Triple-Start Coupler with Accessory Options and RJ45 Jack-to-Jack (Receptacle) or Plug-to-Jack (Plug).

805-301

Page K-22

SuperSeal™ Triple-Start Connector with Accessory Options and RJ45 Plug (Plug) or Jack (Receptacle) to Crimp Removable Contacts.

805-302

Page K-24

SuperSeal™ Triple-Start Receptacle with RJ45 Jack to PC Tail Termination.

805-303

Page K-26

SuperSeal™ Triple-Start Receptacle with RJ45 Jack to Solder Cup Termination.



RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse



801-300 Double-Start Coupler with RJ45 Jack-to-Jack (Receptacle) or Plug-to-Jack (Plug)

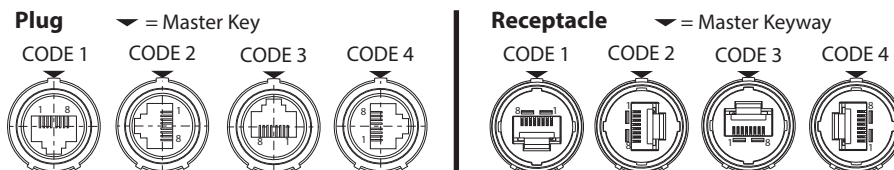
Series 801 Double Start

How To Order										
Sample Part Number	801-300	-	NF	07	G	17	5H	A	1	
Series	801-300 = plug (plug) or jack (receptacle) to jack									
Rear Accessory Option	- = Accessory Thread and Teeth S = Integral Banding Platform B = Integral Boot Adapter									
Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel									
Shell Style ¹	01 = In Line Receptacle 02 = Front or Rear Panel Mount Square Flange Receptacle 07 = Rear Panel Mount Jam Nut Receptacle 26 = Plug									
Grounding	- = Inline Shielded G = Shielded and grounded to shell For improved 360° shielding performance select shell size 19									
Shell Size	17 = Shell Size 17 19 = Shell Size 19									
RJ45 Category	5H = Cat 5E For Cat 6A applications consult factory									
Alternate Key Positions ¹	A, B, C, D, E, F									
RJ45 Orientation	1, 2, 3, 4									

NOTES

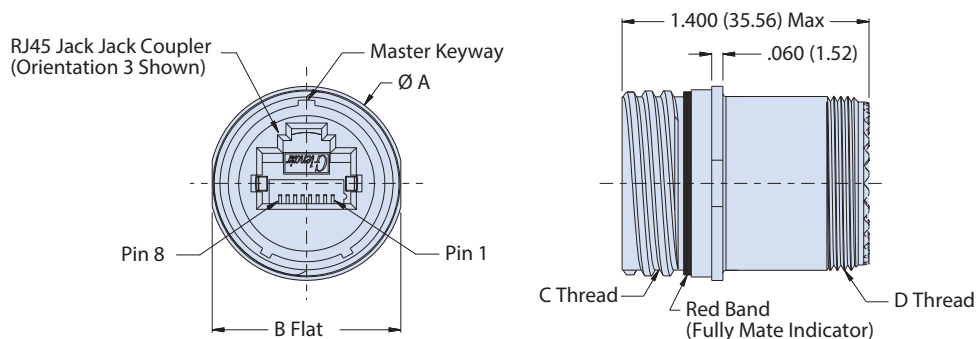
- See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
- Meets IP67 sealing requirement in unmated condition

RJ45 ORIENTATION OPTIONS



Receptacle Dimensions																			
Shell Size	Ø A		B Flat		C Threads	D Threads	Ø E		F SQ		G BSC		Ø J		K Flat		M Threads	Ø N	
	in	mm	in	mm			in	mm	in	mm	in	mm	in	mm	in	mm		in	mm
17	1.110	28.19	1.070	27.18	1.0625-.1P-.2L-DS-2A	.9375-20 UNEF-2A	1.700	43.18	1.280	32.51	1.060	26.92	1.325	33.66	1.290	32.77	1.1250-28 UN-2A	0.850	21.59
19	1.243	31.57	1.191	30.25	1.1875-.1P-.2L-DS-2A	1.0625-18 UNEF-2A	1.900	48.26	1.432	36.37	1.191	30.25	1.450	36.83	1.415	35.94	1.2500-28 UN-2A	1.003	25.48

SHELL STYLE 01 INLINE RECEPTACLE





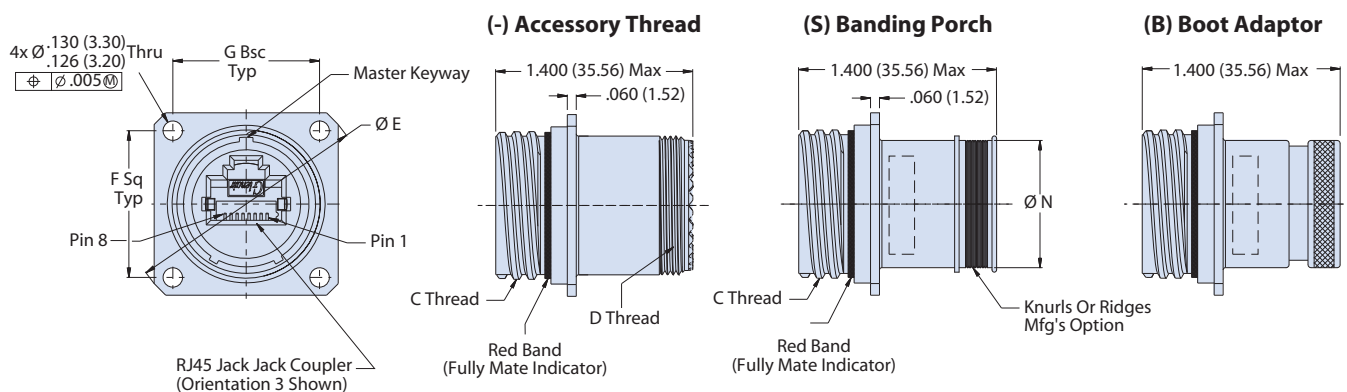
RJ45 CAT 5E ETHERNET COMPATIBLE

Series 801, 804 and 805 Mighty Mouse

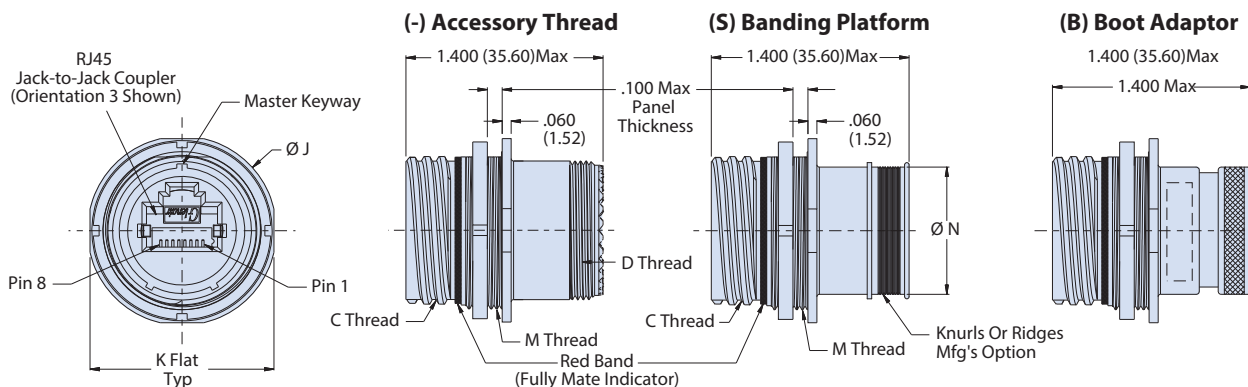


801-300 Double-Start Coupler with RJ45
Jack-to-Jack (Receptacle) or Plug-to-Jack (Plug)

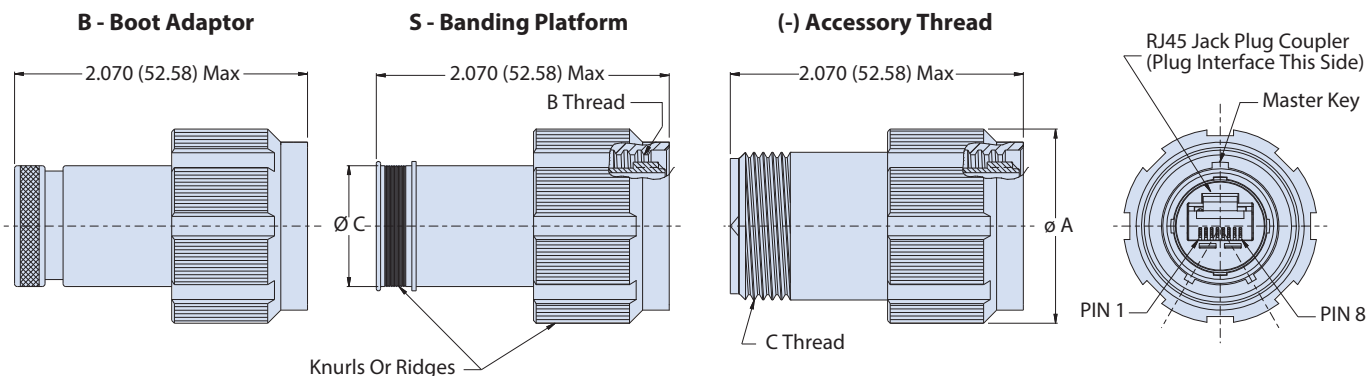
SHELL STYLE 02 FRONT OR REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE



SHELL STYLE 07 REAR PANEL MOUNT JAM NUT RECEPTACLE



SHELL STYLE 26 PLUG



Plug Dimensions

Shell Size	Ø A	B Threads	C Threads
17	1.450 (36.83)	1.0625-1P-.2L-DS-2B	.9375-20 UNEF-2A
19	1.500 (38.1)	1.0625-1P-.2L-DS-2B	1.0625-18 UNEF-2A



RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse



801-301 Double-Start Connector with RJ45 Plug (Plug) or Jack (Receptacle) to Crimp Removable Contacts

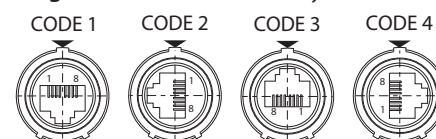
Series 801 Double Start

How To Order										
Sample Part Number	801-301	-	NF	07	G	19	5H	A	1	
Series	801-301									
Rear Accessory Option	- = Accessory Thread and Teeth B = Integral Boot Adapter S = Integral Banding Platform									
Material and Finish ¹	NF = Al/Cadmium, Olive Drab M = Al/Electroless Nickel MT = Al/Nickel PTFE ZNU = Al/Black Zinc Nickel									
Shell Style ¹	01 = In Line Receptacle 02 = Front or Rear Panel Mount Square Flange Receptacle 07 = Rear Panel Mount Jam Nut Receptacle 26 = Plug									
Grounding ²	- = Inline Shielded G = Shielded and grounded to shell									
Shell Size	17 = Shell Size 17 19 = Shell Size 19									
RJ45 Category	5H = Cat 5E For Cat 6A applications consult factory									
Alternate Key Positions ¹	A, B, C, D, E, F									
RJ45 Orientation	1, 2, 3, 4									

RJ45 ORIENTATION OPTIONS

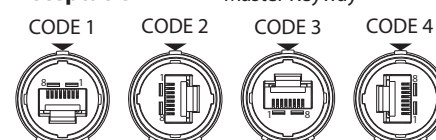
Plug

▼ = Master Key



Receptacle

▼ = Master Keyway

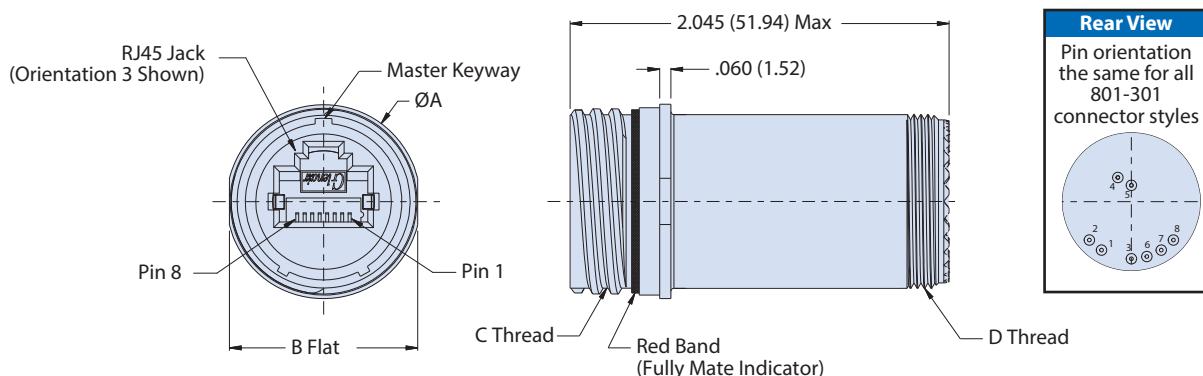


NOTES

1. See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
2. G option is inline shielded and grounded to shell, receptacle only
3. Meets IP67 sealing requirement in unmated condition
4. Supplied with size 23 socket contacts (809-002 supplied loose) 1 extra contact provided

Receptacle Dimensions																			
Shell Size	Ø A		B Flat		C Threads	D Threads	Ø E		F SQ		G BSC		Ø J		K Flat		M Threads	Ø N	
	in	mm	in	mm			in	mm	in	mm	in	mm	in	mm	in	mm		in	mm
17	1.110	28.19	1.070	27.18	1.0625-.1P-.2L-DS-2A	.9375-20 UNEF-2A	1.700	43.18	1.280	32.51	1.060	26.92	1.325	33.66	1.290	32.77	1.1250-28 UN-2A	0.850	21.59
19	1.243	31.57	1.191	30.25	1.1875-.1P-.2L-DS-2A	1.0625-18 UNEF-2A	1.900	48.26	1.432	36.37	1.191	30.25	1.450	36.83	1.415	35.94	1.2500-28 UN-2A	1.003	25.48

SHELL STYLE 01 IN-LINE RECEPTACLE





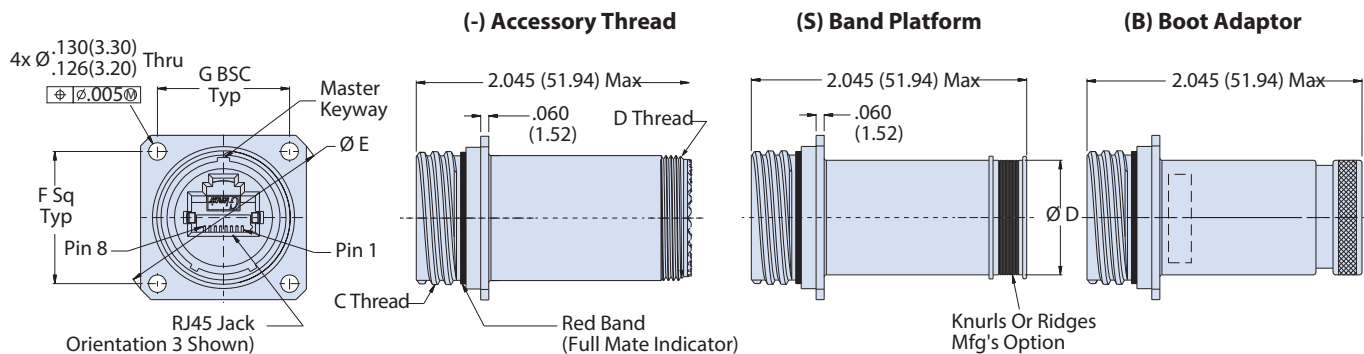
RJ45 CAT 5E ETHERNET COMPATIBLE

Series 801, 804 and 805 Mighty Mouse

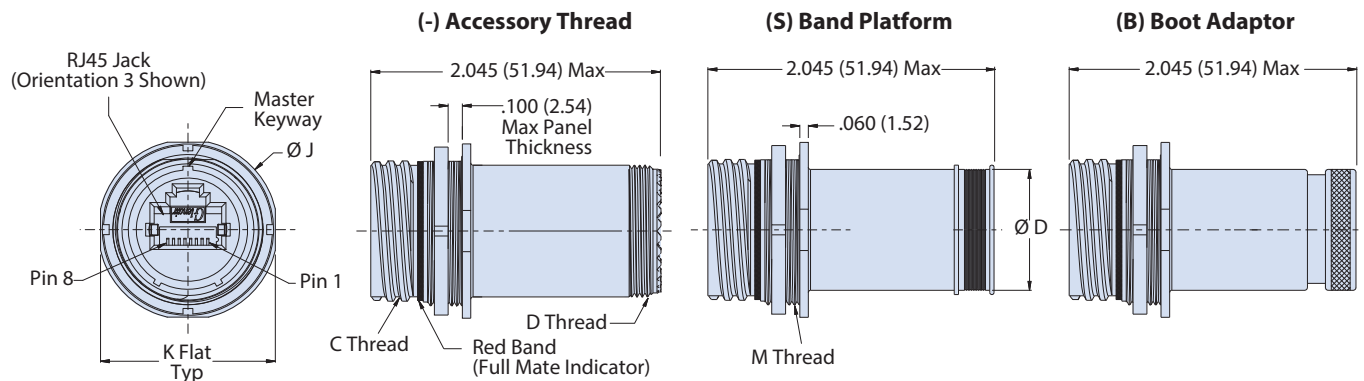


801-301 Double-Start Connector with RJ45 Plug (Plug) or Jack (Receptacle) to Crimp Removable Contacts

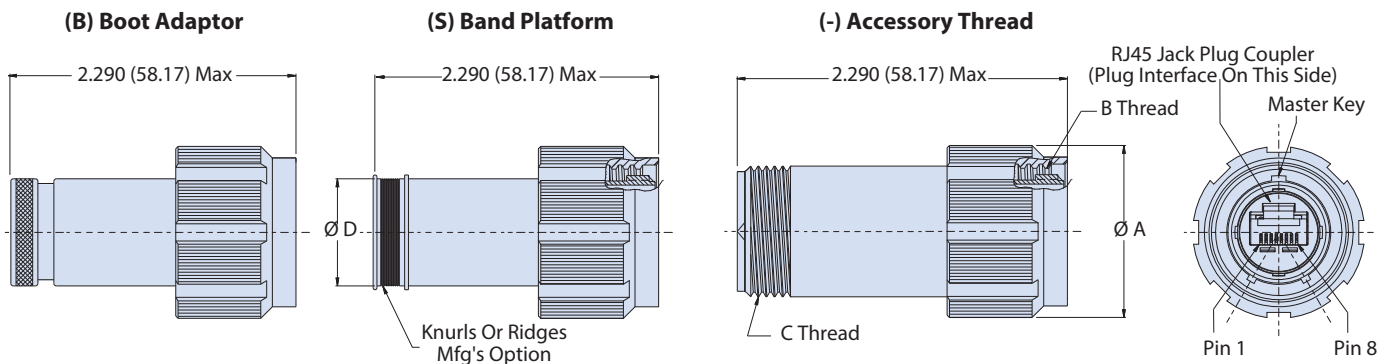
SHELL STYLE 02 FRONT OR REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE



SHELL STYLE 07 REAR PANEL MOUNT JAM NUT RECEPTACLE



SHELL STYLE 26 PLUG



Plug Dimensions			
Shell Size	Ø A	B Threads	Ø C
17	1.450 (36.83)	1.0625-.1P-.2L-DS-2B	.850 (21.59)
19	1.560 (39.62)	1.1875-.1P-.2L-DS-2B	1.003 (25.48)



RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse



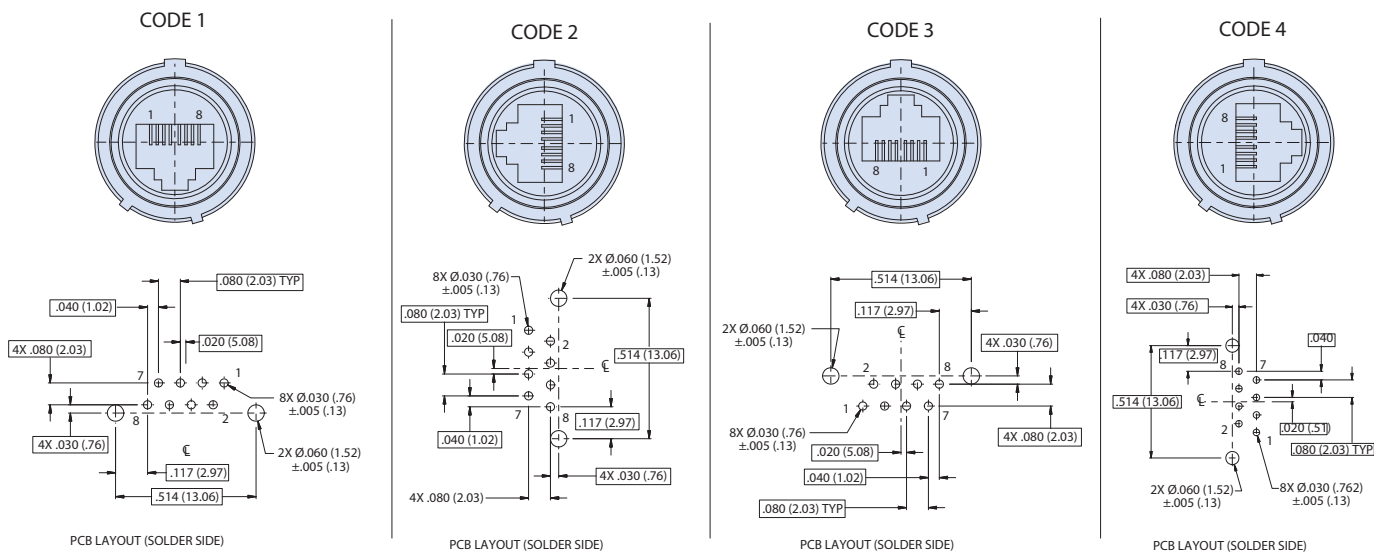
801-302 or 801-303 Double-Start Receptacle with RJ45 Jack to PC Tail or Solder Cup Termination

Series 801 Double Start

How To Order									
Sample Part Number	801-302	NF	07	-	17	5H	A	1	
Series	801-302 = PC Tail 801-303 = Solder Cup								
Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel								
Shell Style ¹	02 = Front or Rear, Square Flange Panel Mount Receptacle 07 = Jam Nut Receptacle, Rear Panel Mount								
Grounding	- = Inline Shielded G = Shielded and grounded to shell For improved 360° shielding performance select shell size 19								
Shell Size	17 = Shell Size 17 19 = Shell Size 19								
RJ45 Category	5H = Cat 5E For Cat 6A applications consult factory								
Alternate Key Positions ¹	A, B, C, D, E, F								
RJ45 Orientation	1, 2, 3, 4								

RJ45 ORIENTATION OPTIONS AND PCB FOOTPRINTS*

(PARTIAL VIEWS SHOWN)



*PCB footprints apply to 801-302 PC tail connectors only. Orientation codes apply to 801-302 and 801-303

Receptacle Dimensions																
Shell Size	Ø A		B Flat		C Threads	Ø E		F SQ		G BSC		Ø J		K Flat		M Threads
	in	mm	in	mm		in	mm	in	mm	in	mm	in	mm	in	mm	
17	1.110	28.19	1.070	27.18	1.0625-.1P-.2L-DS-2A	1.700	43.18	1.280	32.51	1.060	26.92	1.325	33.66	1.290	32.77	1.1250-28 UN-2A
19	1.243	31.57	1.191	30.25	1.1875-.1P-.2L-DS-2A	1.900	48.26	1.432	36.37	1.191	30.25	1.450	36.83	1.415	35.94	1.2500-28 UN-2A



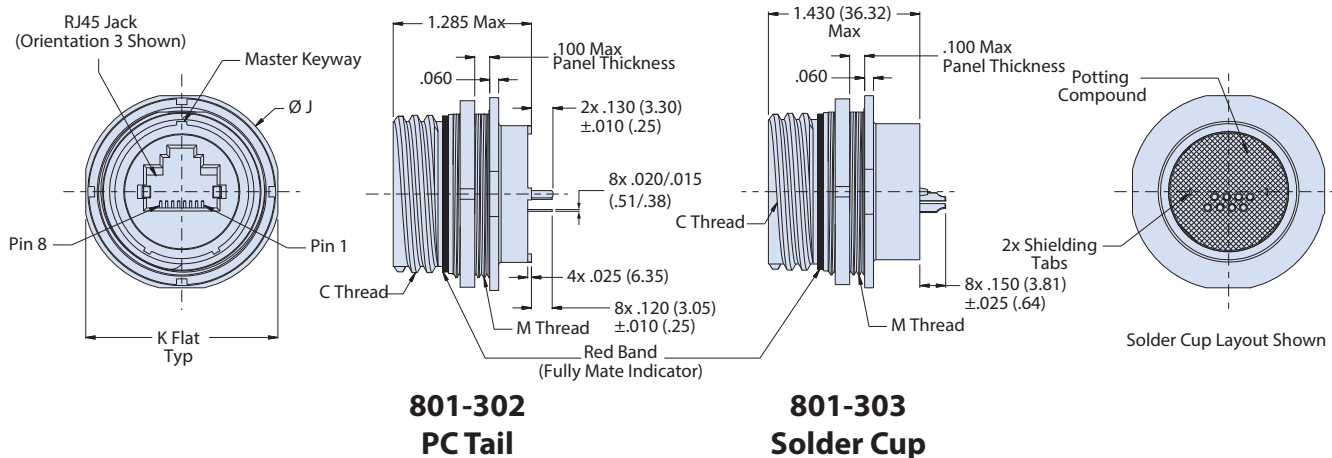
RJ45 CAT 5E ETHERNET COMPATIBLE

Series 801, 804 and 805 Mighty Mouse

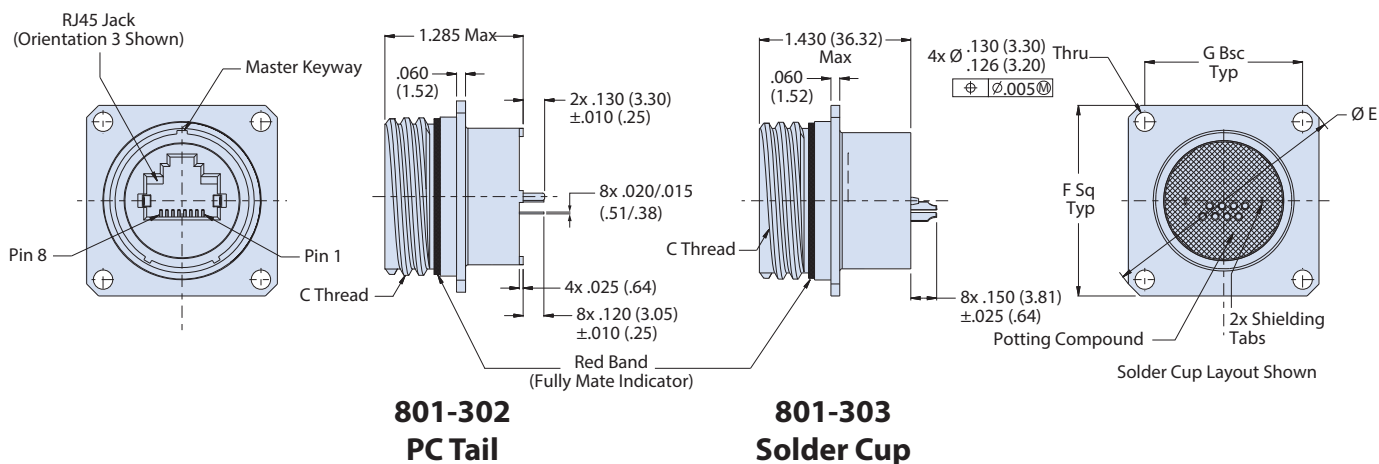


801-302 or 801-303 Double-Start Receptacle with
RJ45 Jack to PC Tail or Solder Cup Termination

SHELL STYLE 07 JAM NUT RECEPTACLE FOR 801-302 PC TAIL AND 801-303 SOLDER CUP



SHELL STYLE 02 SQUARE FLANGE RECEPTACLE FOR 801-302 PC TAIL AND 801-303 SOLDER CUP



NOTES

1. See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
2. Meets IP67 sealing requirement in unmated condition
3. Material and Finish
 - Shell, jam nut: al alloy or cres
 - Seal/o-ring: fluorosilicone
 - Sealant: RTV



RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse



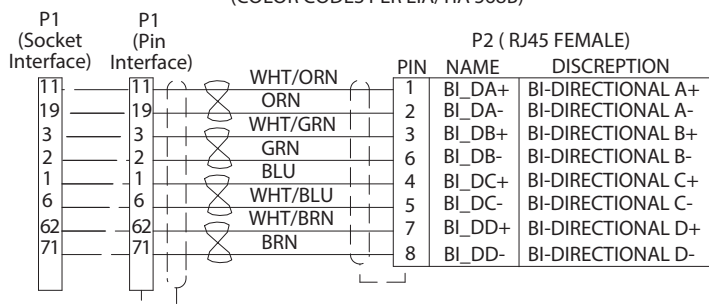
801-304 Double-Start Receptacle Adapter with Pin/Socket Contacts to RJ45 Jack

Series 801 Double Start

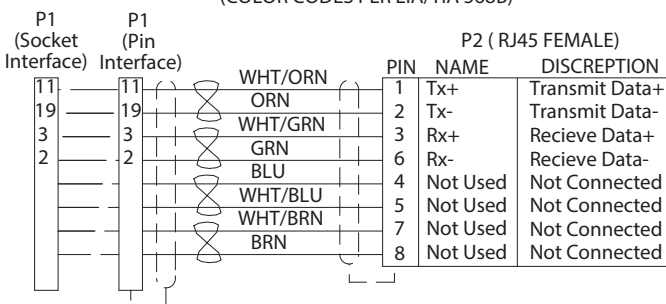
How To Order

Sample Part Number	801-304	-	NF	07	17	-	85	P	5H	A
Series	801-304 = Pin/Socket to RJ45 Jack									
Rear Accessory Option	- = Accessory Thread and Teeth B = Integral Boot Adapter S = Integral Banding Platform									
Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel									
Shell Style ¹	01 = In Line Receptacle 02 = Front or Rear Panel Mount Square Flange Receptacle 07 = Rear Panel Mount Jam Nut Receptacle 26 = Plug									
Shell Size	17 = Shell Size 17 19 = Shell Size 19									
Grounding	- = Inline Shielded G = Shielded and grounded to shell For improved 360° shielding performance select shell size 19									
Insert Arrangement ³	85 = 17-85 per Mighty Mouse Inserts 100 = 19-100 per Mighty Mouse Inserts									
Contact Style	P = Pin S = Socket									
RJ45 Category	5H = Cat 5E For Cat 6A applications consult factory									
Alternate Key Positions ¹	A, B, C, D, E, F									

WIRING DIAGRAM FOR ETHERNET 1000base-T (Gigabit ethernet)
(COLOR CODES PER EIA/TIA 568B)



WIRING DIAGRAM FOR ETHERNET 10base-T and 100 base-TX
(COLOR CODES PER EIA/TIA 568B)



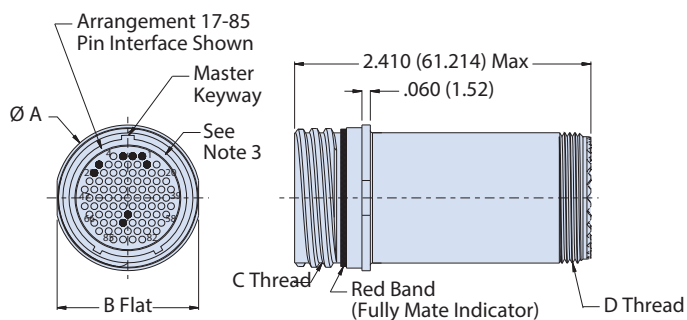
Receptacle Dimensions

Shell Size	Ø A		B Flat		C Threads	D Threads	Ø E		F SQ		G BSC		Ø J		K Flat		M Threads	Ø N	
	in	mm	in	mm			in	mm	in	mm	in	mm	in	mm	in	mm		in	mm
17	1.110	28.19	1.070	27.18	1.0625-.1P-.2L-DS-2A	.9375-20 UNEF-2A	1.700	43.18	1.280	32.51	1.060	26.92	1.325	33.66	1.290	32.77	1.1250-28 UN-2A	0.850	21.59
19	1.243	31.57	1.191	30.25	1.1875-.1P-.2L-DS-2A	1.0625-18 UNEF-2A	1.900	48.26	1.432	36.37	1.191	30.25	1.450	36.83	1.415	35.94	1.2500-28 UN-2A	1.003	25.48

NOTES

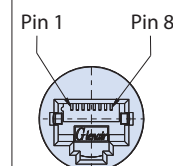
- See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
- Meets IP67 sealing requirement in unmated condition.
- In accordance with Mighty Mouse insert arrangement 17-85 or 19-100 consult factory for other arrangements options.
- Material/Finishes:
 - Shell, jam nut: al alloy or cres
 - seal/o-ring: fluorosilicone

SHELL STYLE 01 IN-LINE RECEPTACLE



Rear View

Pin Position is the same for all styles



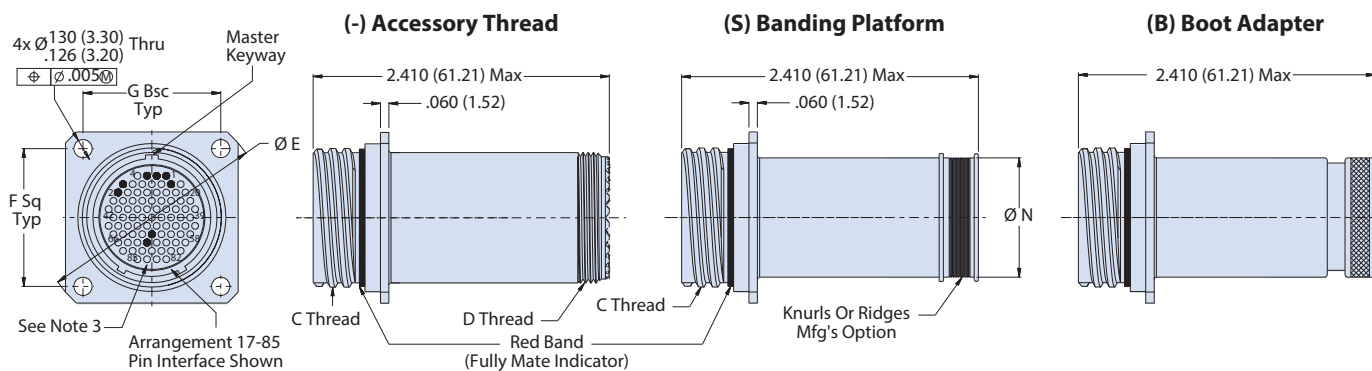


RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse

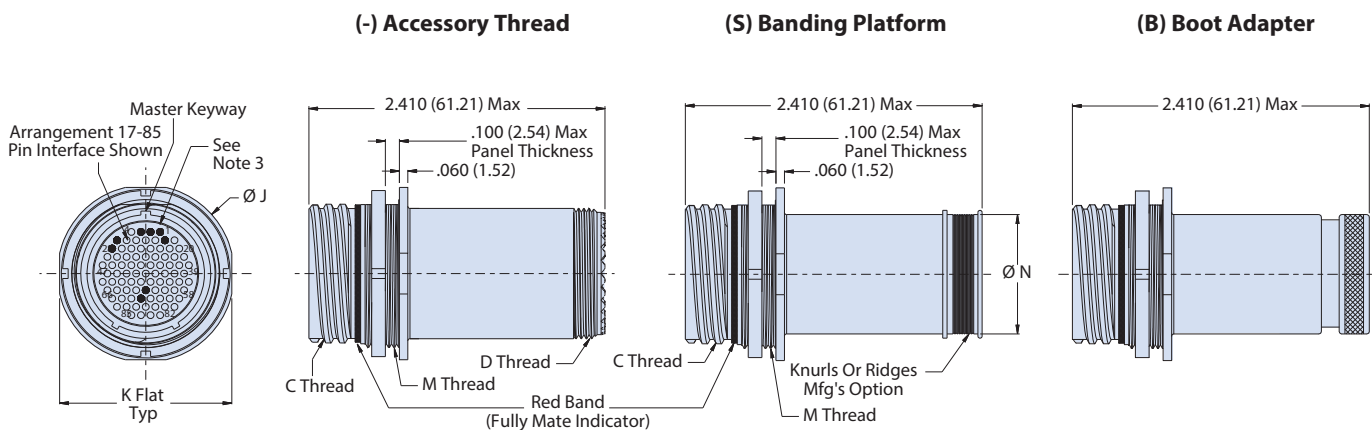


801-304 Double-Start Receptacle Adapter with Pin/Socket Contacts to RJ45 Jack

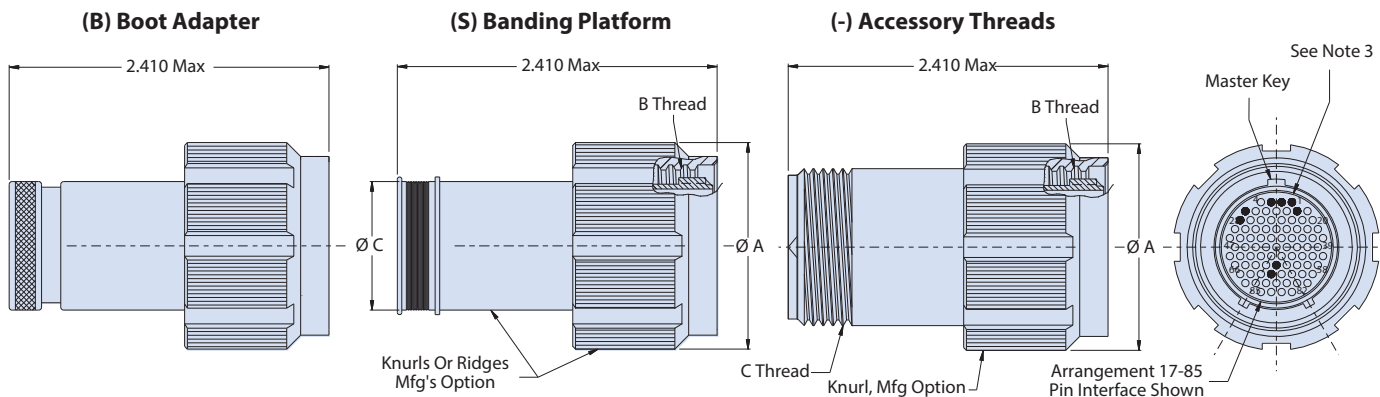
SHELL STYLE 02 FRONT OR REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE



SHELL STYLE 07 REAR PANEL MOUNT JAM NUT RECEPTACLE



SHELL STYLE 26 PLUG



Plug Dimensions			
Shell Size	Ø A	B Threads	C Threads
17	1.450 (36.83)	1.0625-.1P-.2L-DS-2B	.9375-20 UNEF-2A
19	1.560 (39.62)	1.1875-.1P-.2L-DS-2B	1.0625-18 UNEF-2A



RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse



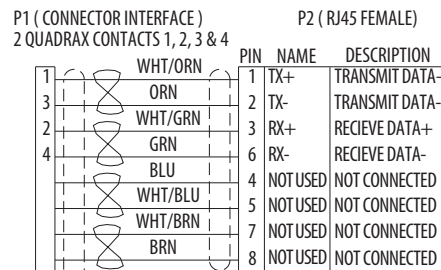
801-305 Double-Start Receptacle Adapter with Quadrx Contacts to RJ45 Jack

Series 801 Double Start

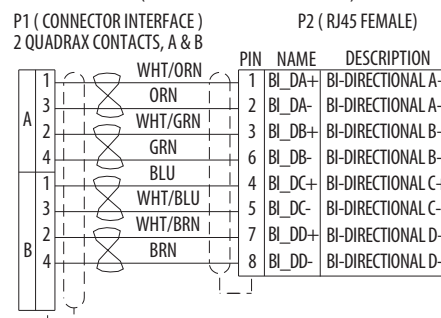
How To Order									
Sample Part Number	801-305	-	NF	07	G	17	5H	P	A
Series	801-305 Quadrx to RJ45 Jack								
Rear Accessory Option	- = Accessory Thread and Teeth B = Integral Boot Adapter S = Integral Banding Platform								
Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel								
Shell Style ¹	01 = In Line Receptacle 26 = Plug 02 = Front or Rear Panel Mount Square Flange Receptacle 07 = Rear Panel Mount Jam Nut Receptacle								
Grounding	- = Inline Shielded G = Shielded and grounded to shell For improved 360° shielding performance select shell size 19								
Shell Size	17 = Shell Size 17 19 = Shell Size 19								
RJ45 Category	5H = Cat 5E; For Cat 6A applications consult factory								
Contact Style ³	P = Pin S = Socket								
Alternate Key Positions ¹	A, B, C, D, E, F								

WIRING DIAGRAMS

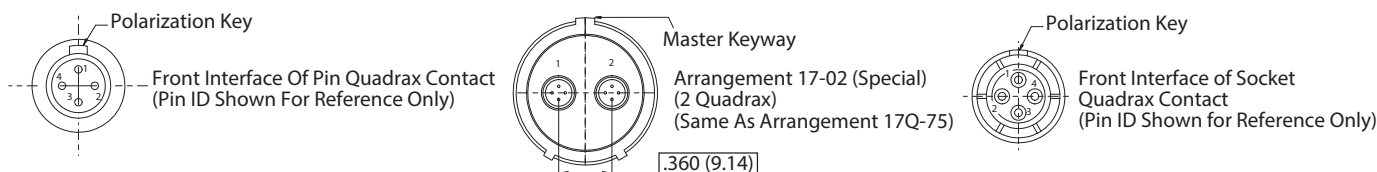
FOR ETHERNET 10base-T & 100 base-TX
(COLOR CODES PER EIA/TIA 568B)



FOR ETHERNET 1000base-T (Gigabit ethernet)
(COLOR CODES PER EIA/TIA 568B)



PARTIAL VIEW OF CONNECTOR QUADRX INTERFACE

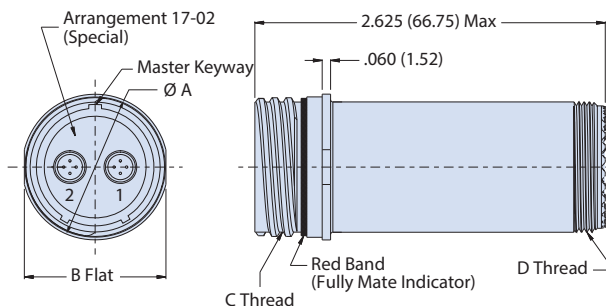


Receptacle Dimensions																			
Shell Size	Ø A		B Flat		C Threads	D Threads	Ø E		F SQ		G BSC		Ø J		K Flat		M Threads	Ø N	
	in	mm	in	mm			in	mm	in	mm	in	mm	in	mm	in	mm		in	mm
17	1.110	28.19	1.070	27.18	1.0625-.1P-.2L-DS-2A	.9375-20 UNEF-2A	1.700	43.18	1.280	32.51	1.060	26.92	1.325	33.66	1.290	32.77	1.1250-28 UN-2A	0.850	21.59
19	1.243	31.57	1.191	30.25	1.1875-.1P-.2L-DS-2A	1.0625-18 UNEF-2A	1.900	48.26	1.432	36.37	1.191	30.25	1.450	36.83	1.415	35.94	1.2500-28 UN-2A	1.003	25.48

NOTES

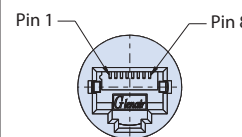
- See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
- Meets IP67 sealing requirement in unmated condition.
- Pin contact shall mate with Glenair socket contact P/N 854-002-XX. Socket contact shall mate with Glenair pin contact P/N 854-001-XX. Contact factory for more information.

SHELL STYLE 01 IN-LINE RECEPTACLE



Rear View

Orientation and pin position apply to all connector styles.



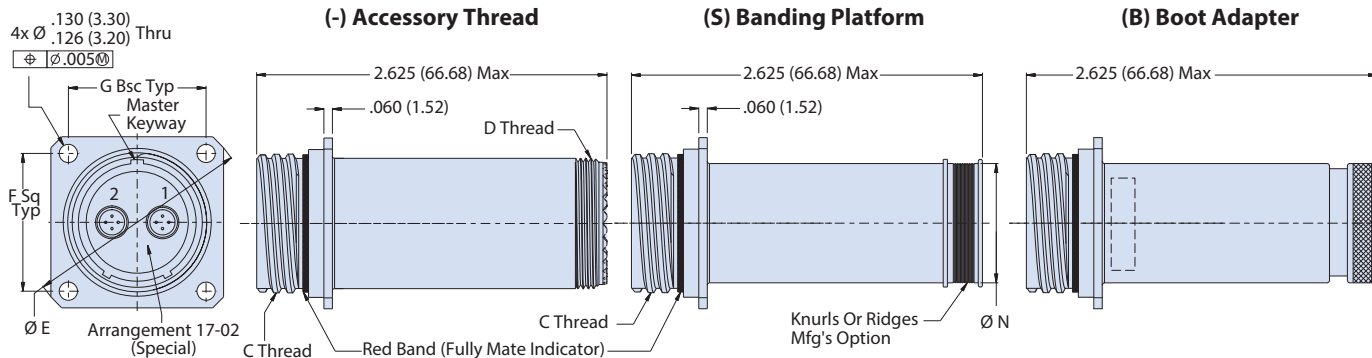


RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse

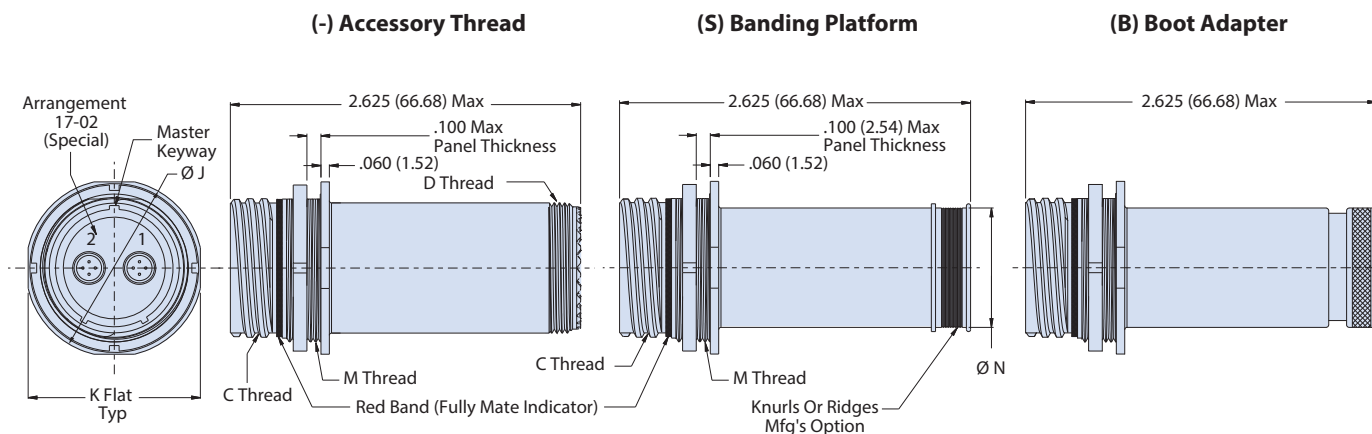


801-305 Double-Start Receptacle Adapter with Quadrx Contacts to RJ45 Jack

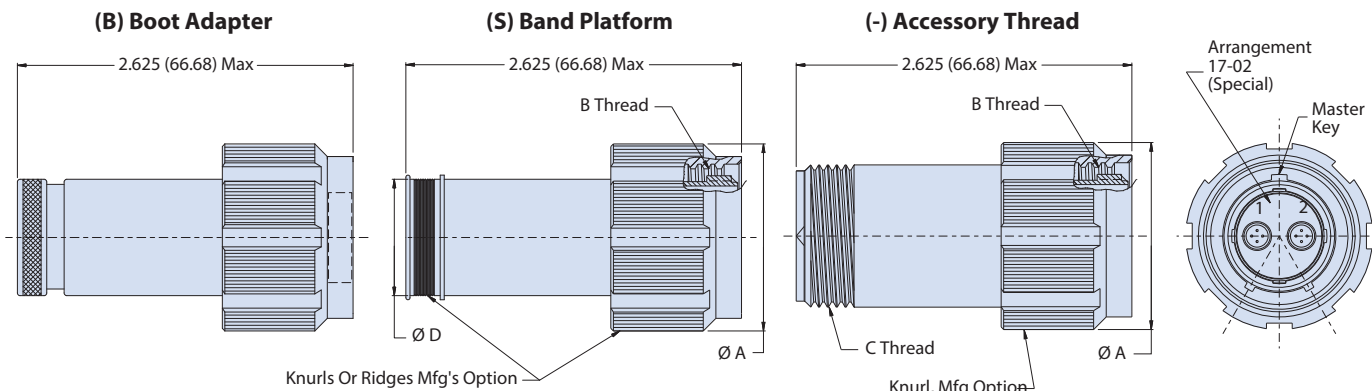
SHELL STYLE 02 FRONT OR REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE



SHELL STYLE 07 REAR PANEL MOUNT JAM NUT RECEPTACLE



SHELL STYLE 26 PLUG



Plug Dimensions				
Shell Size	Ø A	B Threads	C Threads	Ø D
17	1.450 (36.83)	1.0625-1P-.2L-DS-2B	.9375-20 UNEF-2A	.850 (21.59)
19	1.560 (39.62)	1.1875-1P-.2L-DS-2B	1.0625-18 UNEF-2A	1.003 (25.48)



RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse



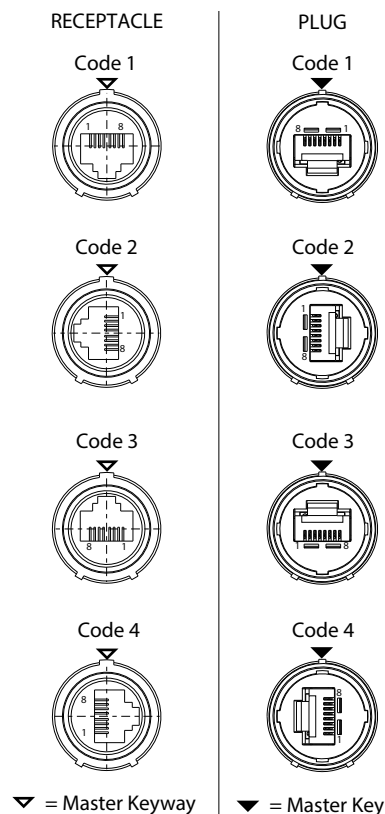
804-300 Push/Pull Coupler with RJ45 Jack-to-Jack (Receptacle) or Plug-to-Jack (Plug)

Series 804 Push/Pull

K

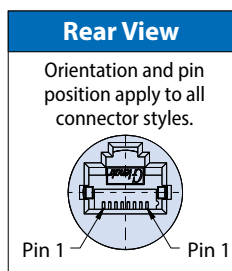
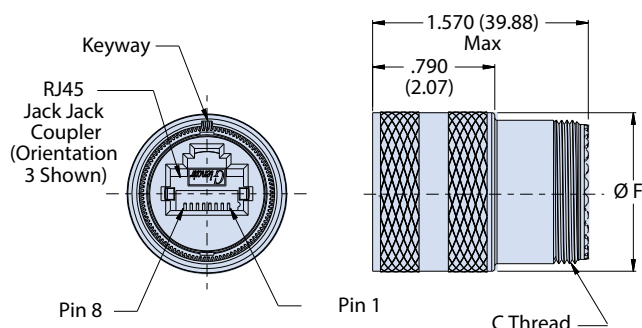
How To Order									
Sample Part Number	804-300	-	NF	07	G	16	5H	A	1
Series	804-300								
Rear Accessory Option	- = Accessory Thread and Teeth B = Integral Boot Adapter S = Integral Banding Platform								
Material and Finish ¹	NF = Al/Cadmium, Olive Drab M = Al/Electroless Nickel MT = Al/Nickel PTFE ZNU = Al/Black Zinc Nickel								
Shell Style ¹	01 = In Line Receptacle 00 = Jam Nut Receptacle, Front Panel Mount 07 = Jam Nut Receptacle, Rear Panel Mount 16 = Plug								
Grounding ⁴	- = Inline Shielded G = Shielded and grounded to shell For improved 360° shielding performance select shell size 16								
Shell Size	15 = Shell Size 15 16 = Shell Size 16								
RJ45 Category	5H = Cat 5E For Cat 6A applications consult factory								
Alternate Key Positions ¹	A, B, C, D, E, F ; Omit for single keyway (non polarized)								
RJ45 Orientation	1, 2, 3, 4								

RJ45 ORIENTATION OPTIONS



Receptacle Dimensions								
Size Shell	Mounting Style	Ø A	B Threads	C Threads	Ø D	Ø E	Ø F	K Threads
15	Front Mount	--	--	.9375-20 UNEF-2A	1.450 (35.31)	.850 (21.59)	1.060 (26.92)	1.125-28 UN-2A
	Rear Mount	1.390 (35.31)	1.0625-20 UN-2A		--			--
16	Front Mount	--	--	1.000-20 UNEF-2A	1.502 (38.15)	.902 (22.91)	1.188 (30.18)	1.1875-28 UN-2A
	Rear Mount	1.425 (36.20)	1.250-28 UN-2A		--			--

SHELL STYLE 01 IN-LINE RECEPTACLE



NOTES

1. See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
2. Meets IP67 sealing requirement in unmated condition
3. Receptacles are JACK-JACK and plugs are PLUG-JACK configurations
4. Size 15 uses only rear shielding sleeve. Size 16 uses front and back shielding sleeves

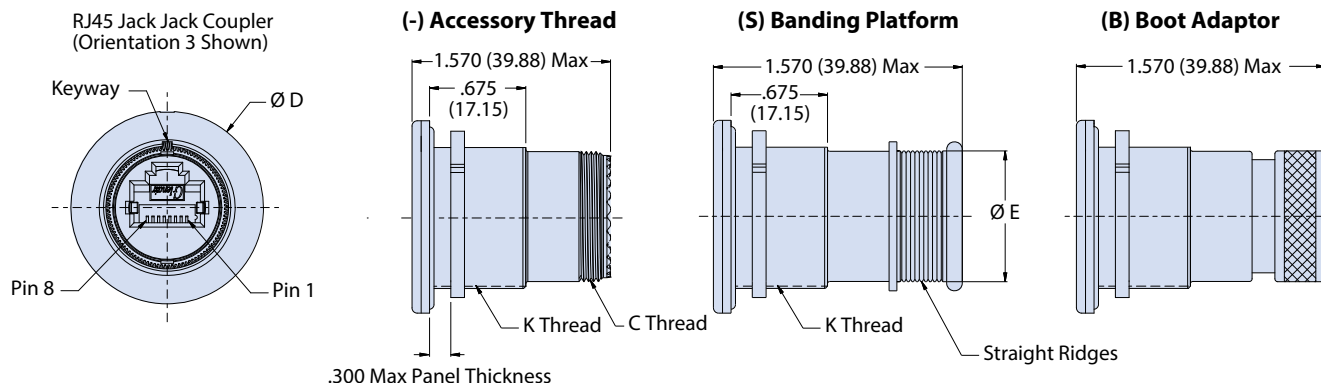


RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse

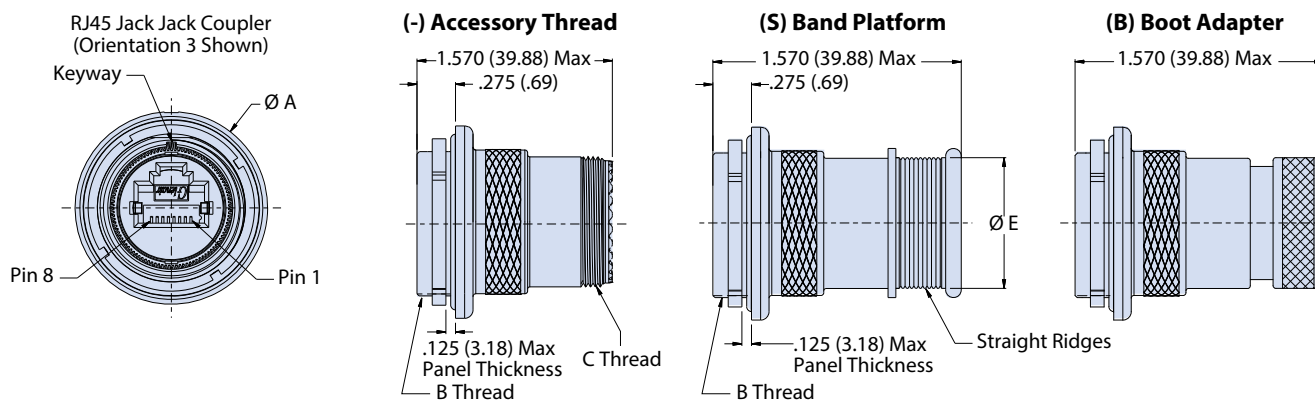


804-300 Push/Pull Coupler with RJ45 Jack-to-Jack (Receptacle) or Plug-to-Jack (Plug)

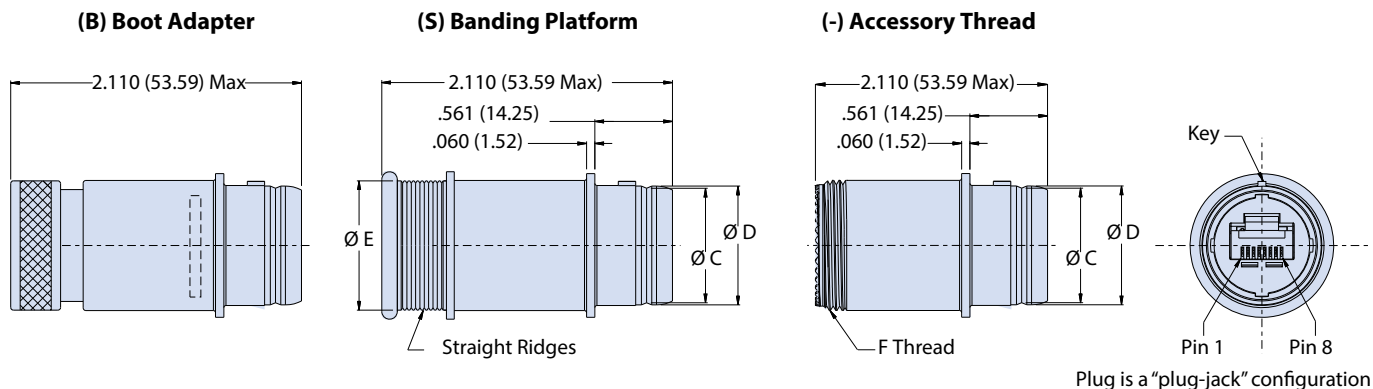
SHELL STYLE 00 FRONT PANEL MOUNT JAM NUT RECEPTACLE



SHELL STYLE 07 REAR PANEL MOUNT JAM NUT RECEPTACLE



SHELL STYLE 16 PLUG



Plug Dimensions					
Size Shell	Ø A Max	Ø C	Ø D	Ø E	F Thread
15	1.045 (26.54)	.828 (21.03)	.860 (21.84)	.850 (21.59)	.9375-20 UNEF-2A
16	1.095 (27.81)	.878 (21.30)	.910 (23.11)	.902 (22.91)	1.0000-20 UNEF-2A



RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse



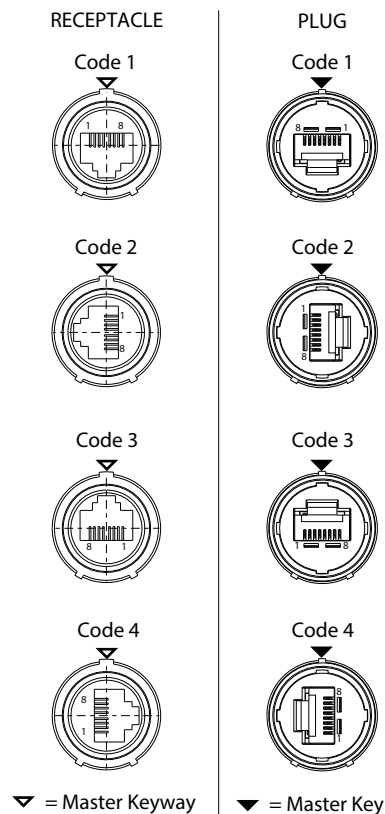
804-301 Push/Pull RJ45 Plug (Plug) or Jack (Receptacle) to Crimp Removable Contacts

Series 804 Push/Pull

K

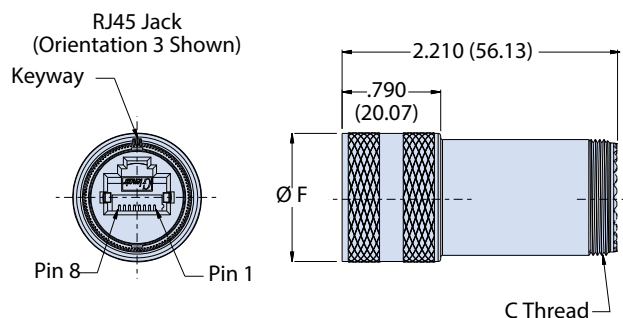
How To Order									
Sample Part Number	804-301	-	NF	07	G	16	5H	A	1
Series	804-301								
Rear Accessory Option	- = Accessory Thread and Teeth B = Integral Boot Adapter S = Integral Banding Platform								
Material and Finish ¹	NF = Al/Cadmium, Olive Drab M = Al/Electroless Nickel MT = Al/Nickel PTFE ZNU = Al/Black Zinc Nickel								
Shell Style ¹	01 = In Line Receptacle 00 = Jam Nut Receptacle, Front Panel Mount 07 = Jam Nut Receptacle, Rear Panel Mount 16 = Plug								
Grounding	- = Inline Shielded G = Shielded and grounded to shell For improved 360° shielding performance select shell size 16								
Shell Size	15 = Shell Size 15 16 = Shell Size 16								
RJ45 Category	5H = Cat 5E For Cat 6A applications consult factory								
Alternate Key Positions ¹	A, B, C, D, E, F; Omit for single keyway (non polarized)								
RJ45 Orientation	1, 2, 3, 4								

RJ45 ORIENTATION OPTIONS



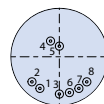
Receptacle Dimensions								
Size Shell	Mounting Style	Ø A	B Threads	C Threads	Ø D	Ø E	Ø F	K Threads
15	Front Mount	--	--	.9375-20 UNEF-2A	1.450 (35.31)	.850 (21.59)	1.060 (26.92)	1.125-28 UN-2A
	Rear Mount	1.390 (35.31)	1.0625-20 UN-2A		--			--
16	Front Mount	--	--	1.000-20 UNEF-2A	1.502 (38.15)	.902 (22.91)	1.188 (30.18)	1.1875-28 UN-2A
	Rear Mount	1.425 (36.20)	1.250-28 UN-2A		--			--

SHELL STYLE 01 IN-LINE RECEPTACLE



Rear View

Orientation and pin position apply to all connector styles.



NOTES

1. See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
2. Meets IP67 sealing requirement in unmated condition
3. Supplied with size 23 crimp socket contacts (809-002 supplied loose)



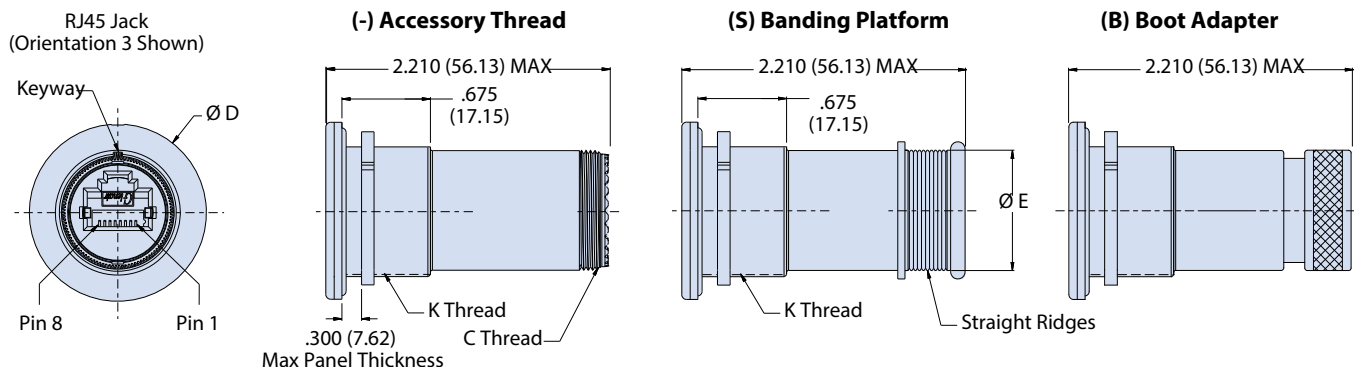
RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse 804-301 Push/Pull RJ45 Plug (Plug) or Jack (Receptacle) to Crimp Removable Contacts



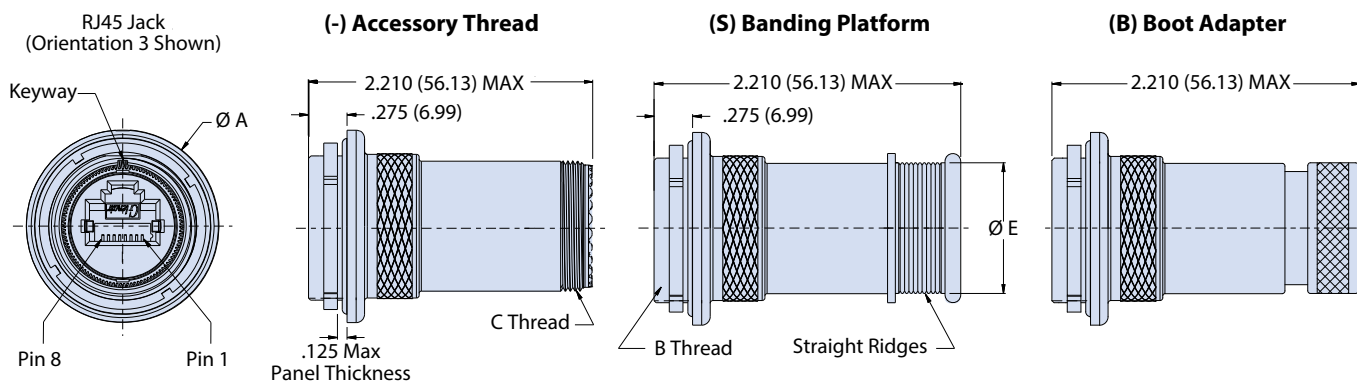
Series 804 Push/Pull

K

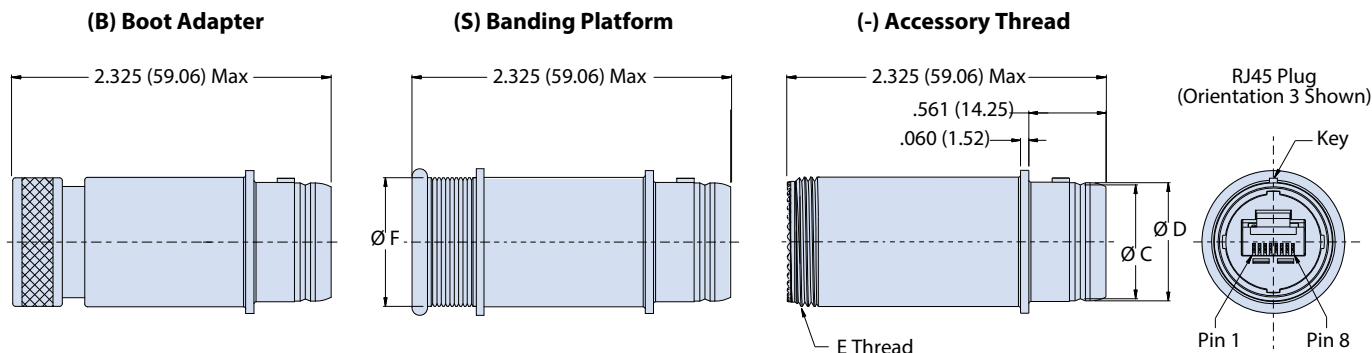
SHELL STYLE 00 FRONT PANEL MOUNT JAM NUT RECEPTACLE



SHELL STYLE 07 REAR PANEL MOUNT JAM NUT RECEPTACLE



SHELL STYLE 16 PLUG



Plug Dimensions					
Shell Size	Ø A	Ø C	Ø D	E Threads	Ø F
15	1.045 (26.54)	.828 (21.03)	.860 (21.84)	.9375-20 UNEF-2A	.850 (26.92)
16	1.095 (27.81)	.878 (22.30)	.910 (23.11)	1.0000-20 UNEF-2A	.902 (22.91)



RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse



804-302 or 804-303 Push/Pull Receptacle with RJ45 Jack-to-PC Tail or Solder Cup Termination

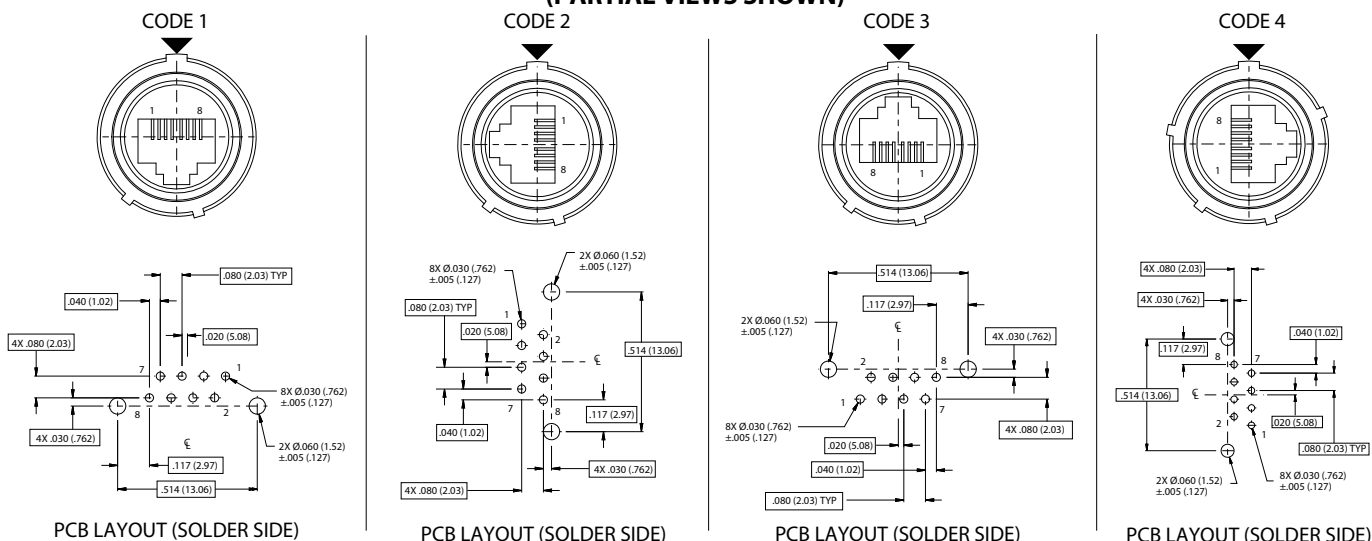
Series 804 Push/Pull

How To Order								
Sample Part Number	804-302	NF	07	-	15	5H	A	1
Series	804-302 = PC Tail 804-303 = Solder Cup							
Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel							
Shell Style ¹	07 = Rear Panel Mount Jam Nut Receptacle 00 = Front Panel Mount Jam Nut Receptacle							
Shielding	- = Inline Shielded G = Shielded and grounded to shell For improved 360° shielding performance select shell size 16							
Shell Size	15 = Shell Size 15 16 = Shell Size 16							
RJ45 Category	5H = Cat 5E For Cat 6A applications consult factory							
Aternate Key Positions ¹	A, B, C, D, E, F ; Omit for single keyway (non-polarized)							
RJ45 Orientation	1, 2, 3, 4							

Receptacle Dimensions								
Shell Size	Mounting Style	Ø A		B Threads	Ø D		K Threads	C Threads
		In	mm		In	mm		
15	FRONT MOUNT	-	-	-	1.450	36.83	1.125-28 UN-2A	.9375-20 UNEF-2A
	REAR MOUNT	1.390	35.306	1.0625-20 UN-2A	-	-	-	.9375-20 UNEF-2A
16	FRONT MOUNT	-	-	-	1.502	38.1508	1.1875-28 UN-2A	1.000-20 UNEF-2A
	REAR MOUNT	1.425	36.195	1.250-28 UN-2A	-	-	-	1.000-20 UNEF-2A

RJ45 RECEPTACLE ORIENTATION OPTIONS AND PCB FOOTPRINT

(PARTIAL VIEWS SHOWN)



▼ = Master Keyway

PCB layout applies to 804-302 only, orientations codes for 804-302 and 804-303

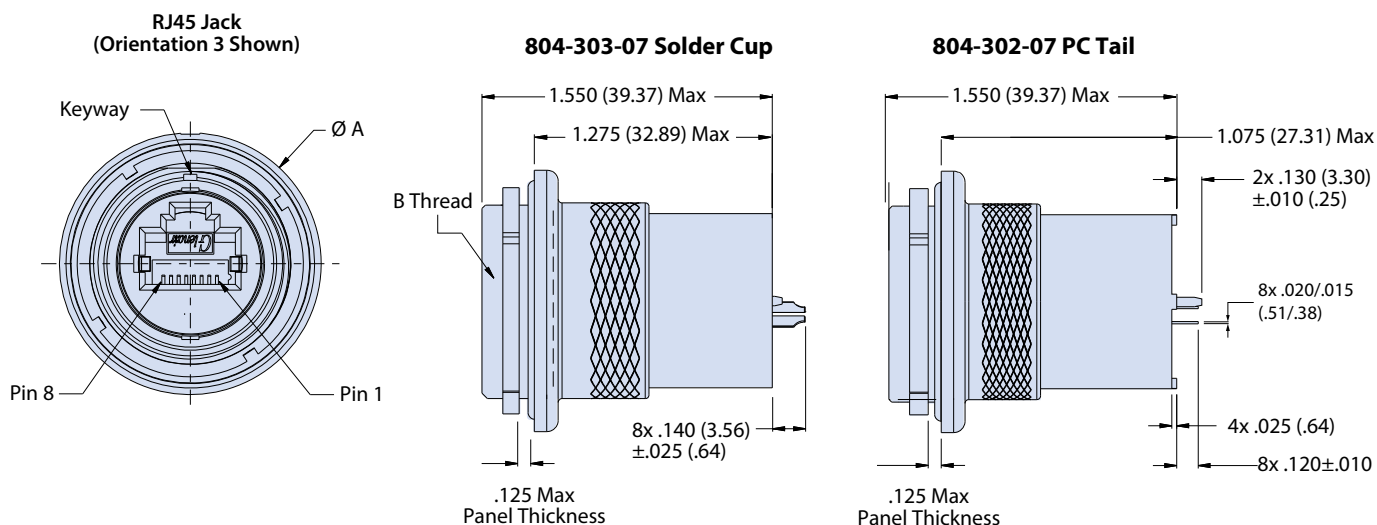


RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse



804-302 or 804-303 Push/Pull Receptacle with RJ45 Jack-to-PC Tail or Solder Cup Termination

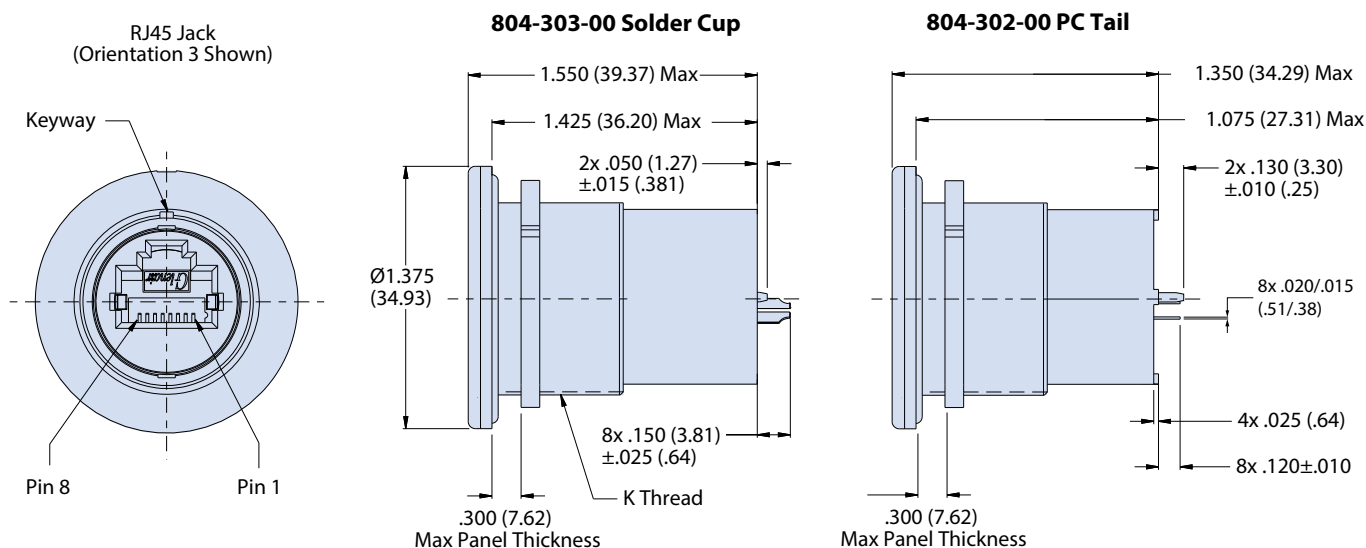
REAR PANEL MOUNT JAM NUT RECEPTACLE, 804-302-07 PC TAIL AND 804-303-07 SOLDER CUP



Series 804 Push/Pull

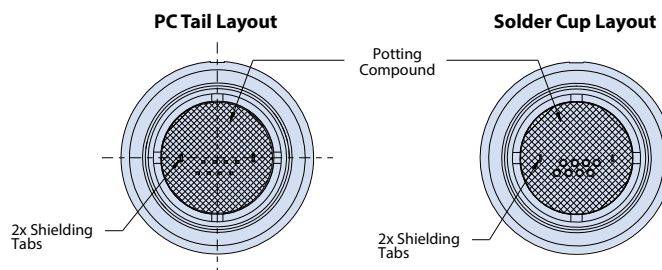
K

FRONT PANEL MOUNT JAM NUT RECEPTACLE, 804-302-00 PC TAIL AND 804-303-00 SOLDER CUP



NOTES

1. See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
2. Meets IP67 sealing requirement in unmated condition
3. Mates with 804-300 series





RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse 804-305 Push/Pull Receptacle Adapter with Quadrax Contacts to RJ45 Jack

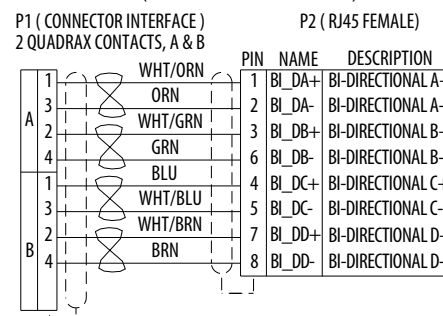
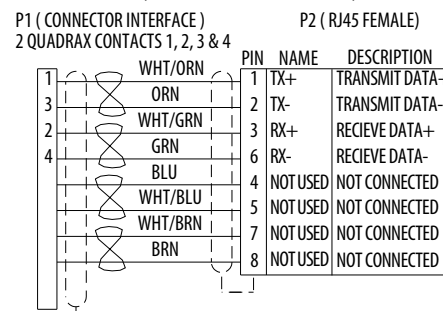


Series 804 Push/Pull

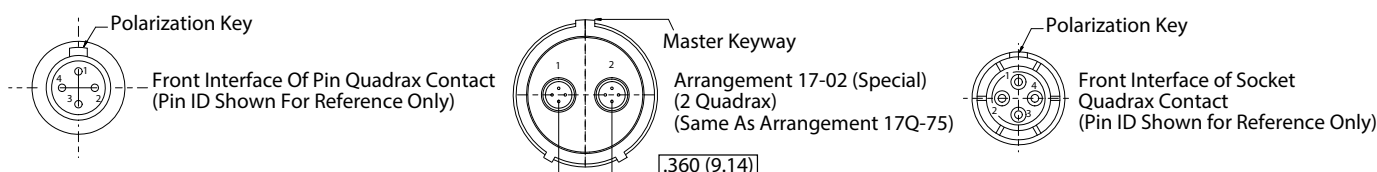
How To Order									
Sample Part Number	804-305	-	NF	07	G	16	5H	P	A
Series	804-305								
Rear Accessory Option	- = Accessory Thread B = Boot Adapter S = Banding Platform								
Material and Finish ¹	NF = Al/Cadmium, Olive Drab M = Al/Electroless Nickel MT = Al/Nickel PTFE ZNU = Al/Black Zinc Nickel								
Shell Style ¹	01 = In Line Receptacle 00 = Jam Nut Receptacle, FPM 07 = Jam Nut Receptacle, RPM 16 = Plug								
Grounding	- = Inline Shielded G = Shielded and grounded to shell For improved 360° shielding performance select shell size 16								
Shell Size	15 = Shell Size 15 16 = Shell Size 16								
RJ45 Category	5H = Cat 5E For Cat 6A applications consult factory								
Contact Style ³	P = Pin S = Socket								
RJ45 Orientation	A, B, C, D, E, F; Omit for single keyway (non polarized)								

WIRING DIAGRAMS

FOR ETHERNET 10base-T & 100 base-TX
(COLOR CODES PER EIA/TIA 568B)

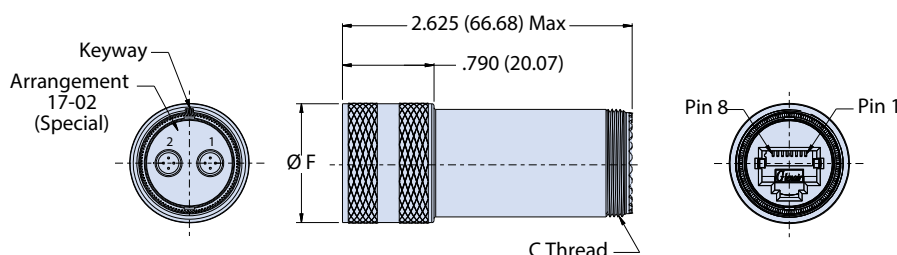


PARTIAL VIEW OF CONNECTOR QUADRAx INTERFACE



Receptacle Dimensions								
Size Shell	Mounting Style	Ø A	B Threads	C Threads	Ø D	Ø E	Ø F	K Threads
15	Front Mount	--	--	.9375-20 UNEF-2A	1.450 (35.31)	.850 (21.59)	1.060 (26.92)	1.125-28 UN-2A
	Rear Mount	1.390 (35.31)	1.0625-20 UN-2A		--			
16	Front Mount	--	--	1.000-20 UNEF-2A	1.502 (38.15)	.902 (22.91)	1.188 (30.18)	1.1875-28 UN-2A
	Rear Mount	1.425 (36.20)	1.250-28 UN-2A		--			

SHELL STYLE 01 IN-LINE RECEPTACLE



NOTES

- See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
- Meets IP67 sealing requirement in unmated condition
- Pin contact mates with Glenair socket contact P/N 854-002-XX. Socket contact mates with Glenair pin contact P/N 854-001-XX

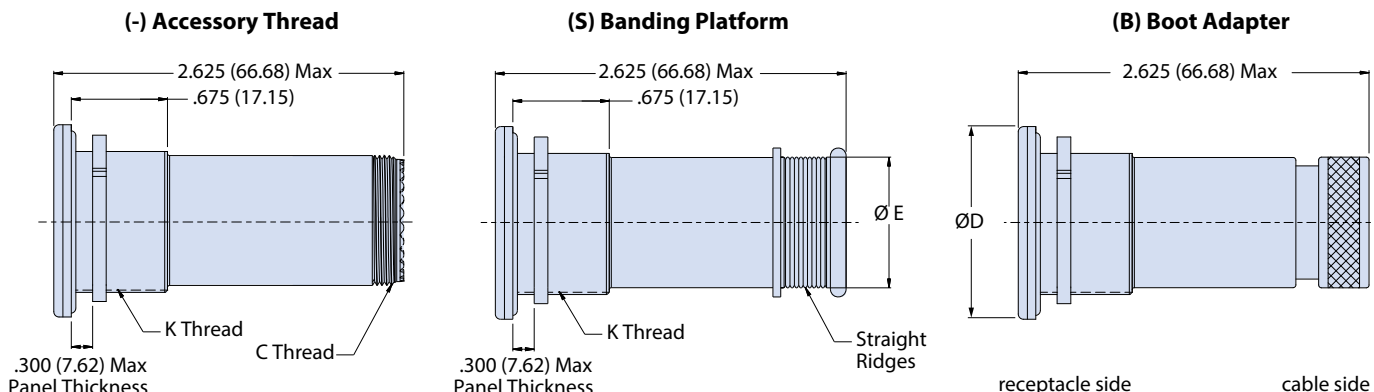


RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse 804-305 Push/Pull Receptacle Adapter with QuadraX Contacts to RJ45 Jack

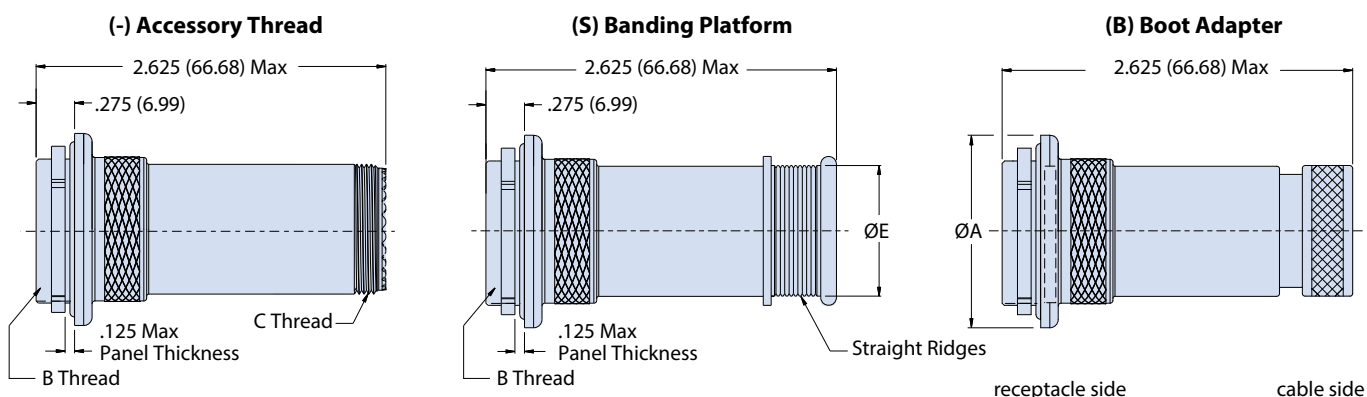


Series 804 Push/Pull

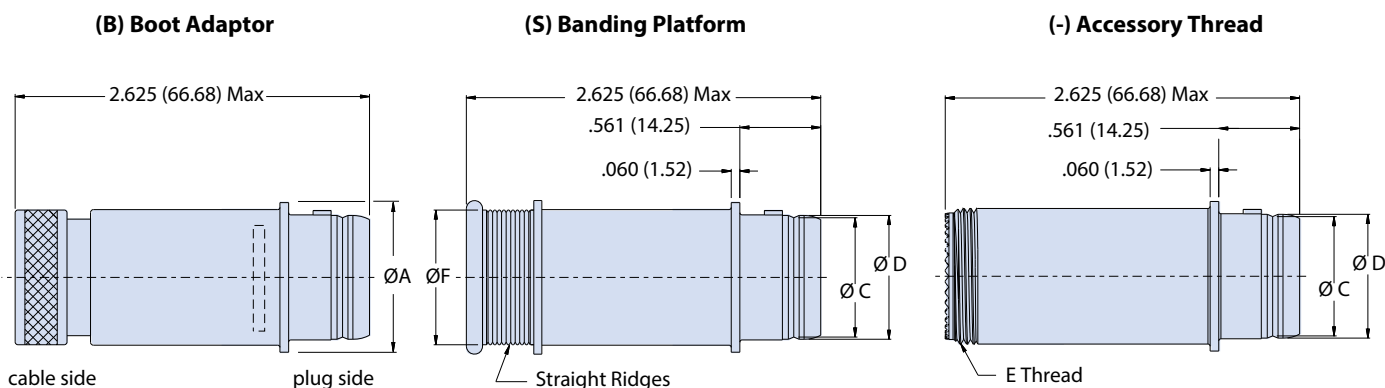
SHELL STYLE 00 FRONT PANEL MOUNT JAM NUT RECEPTACLE



SHELL STYLE 07 REAR PANEL MOUNT JAM NUT RECEPTACLE



SHELL STYLE 16 PLUG



Plug Dimensions					
Shell Size	Ø A Max	Ø C	Ø D	E Thread	Ø F
15	1.045 (26.54)	.828 (21.03)	.860 (21.84)	.9375-20 UNEF-2A	.850 (21.59)
16	1.095 (27.81)	.878 (22.30)	.910 (23.11)	1.0000-20 UNEF-2A	.902 (22.91)



RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse



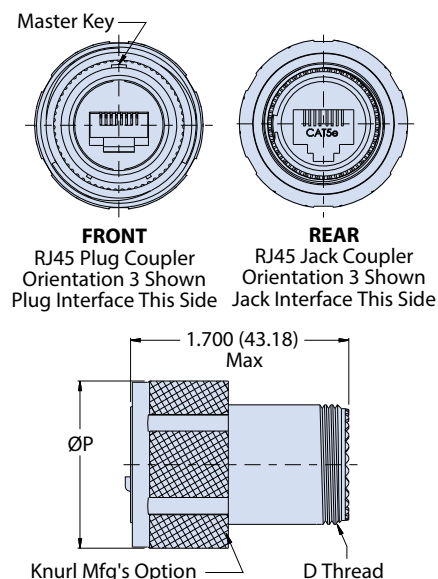
805-300 Triple-Start Coupler with RJ45 Jack-to-Jack (Receptacle) or Plug-to-Jack (Plug)

Series 805 Triple Start

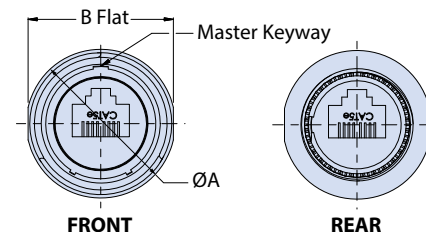
K

How To Order									
Sample Part Number	805-300	-	NF	07	G	21	5H	A	4
Series	805-300								
Rear Accessory Option	- = Accessory Thread and Teeth B = Integral Boot Adapter S = Integral Banding Platform								
Material and Finish ¹	NF = Al/Cadmium, Olive Drab M = Al/Electroless Nickel MT = Al/Nickel PTFE ZNU = Al/Black Zinc Nickel								
Shell Style ¹	01 = In Line Receptacle 02 = Front or Rear Panel Mount Square Flange Receptacle 12 = Rear Panel Mount Square Flange Receptacle with "Non-Locking" Clinch Nuts 22 = Rear Panel Mount Square Flange Receptacle with "Locking" Clinch Nuts 07 = Rear Panel Mount Jam Nut Receptacle 16 = Plug								
Grounding	G = Shielded and grounded to shell For improved 360° shielding performance select shell size 21								
Shell Size ³	19 = Shell Size 19 21 = Shell Size 21								
RJ45 Category	5H = Cat 5E For Cat 6A applications consult factory,								
Aternate Key Positions ¹	A, B, C, D, E, F ; A = Normal								
RJ45 Orientation	1, 2, 3, 4								

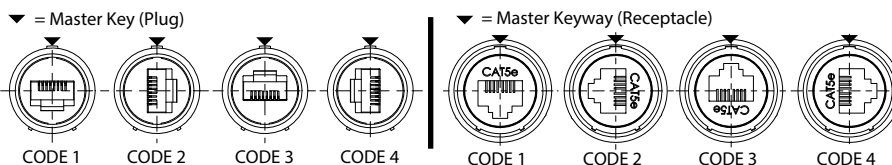
SHELL STYLE 16 PLUG



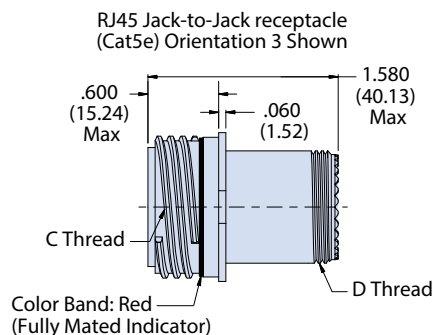
SHELL STYLE 01 IN-LINE RECEPTACLE



RJ45 JACK ORIENTATION OPTIONS



Jam Nut, Plug and Banding Platform Rear Accessory Dimensions						
Size Shell	Ø K	L	M Flat	N Thread	Ø P	Ø R
19	1.450 (36.83)	1.420 (30.07)	1.221 (31.01)	1.2500-28 UN-2A	1.311 (33.30)	.884 (22.45)
21	1.590 (40.38)	1.560 (39.62)	1.350 (34.29)	1.3750-28 UN-2A	1.448 (36.78)	1.003 (25.48)



In-Line, Square Flange and Threaded Rear Accessory Dimensions									
Size Shell	Ø A	B Flat	C Threads	D Thread	Ø E	F SQ	G BSC	Ø H	J SQ
19	1.235 (31.37)	1.205 (30.61)	1.1875-.1P-.3L-TS-2A	.9375-20 UNEF-2A	2.094 (53.19)	1.537 (39.04)	1.327 (39.04)	2.197 (55.80)	1.647 (41.83)
21	1.360 (34.54)	1.330 (33.78)	1.3125-.1P-.3L-TS-2A	1.0625-18 UNEF-2A	2.270 (57.66)	1.663 (42.24)	1.452 (36.88)	2.380 (60.45)	1.772 (45.01)



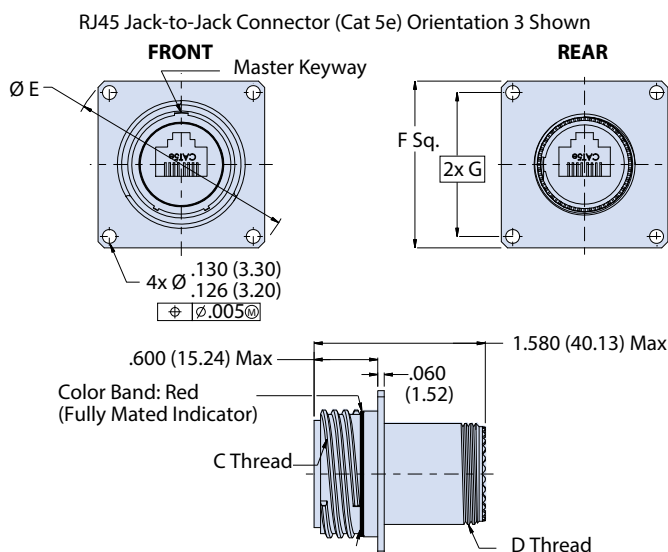
RJ45 CAT 5E ETHERNET COMPATIBLE

Series 801, 804 and 805 Mighty Mouse

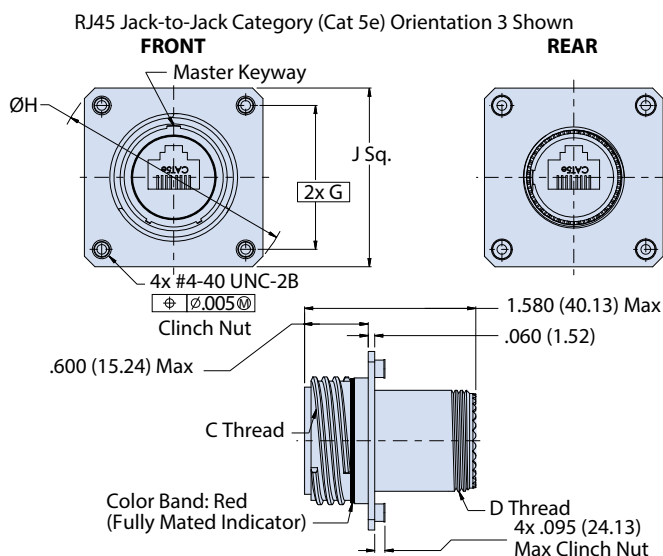


805-300 Triple-Start Coupler with RJ45 Jack-to-Jack (Receptacle) or Plug-to-Jack (Plug)

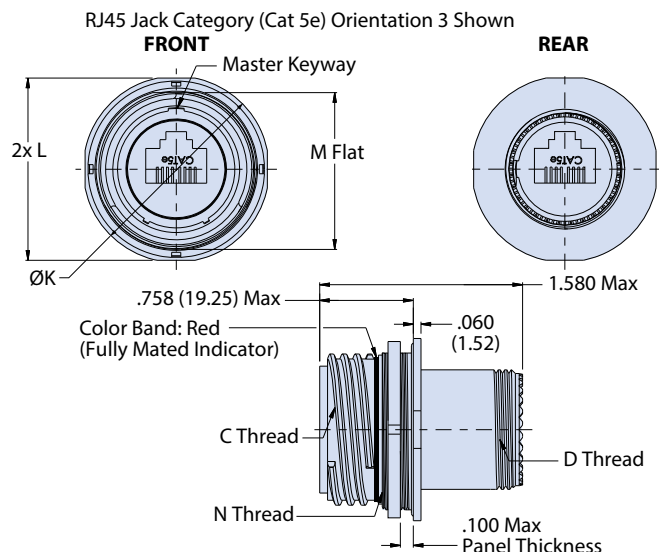
SHELL STYLE 02 FRONT OR REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE



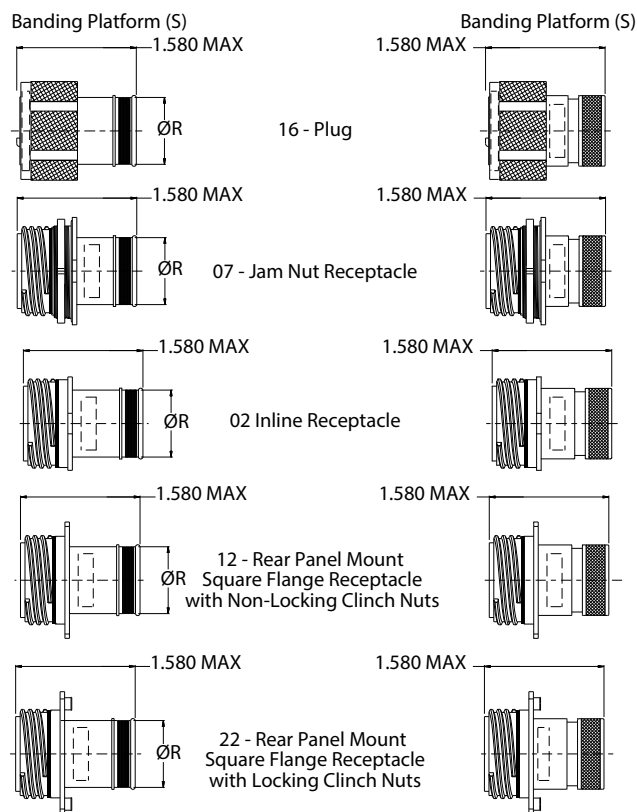
SHELL STYLE 12 & 22 FRONT OR REAR PANEL MOUNT RECEPTACLE WITH CLINCH NUTS



SHELL STYLE 07 REAR PANEL MOUNT JAM NUT RECEPTACLE



ADDITIONAL REAR ACCESSORY OPTIONS



NOTES

1. See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
2. IP67 sealing in unmated condition
3. Size 19 uses only rear shield sleeve
 Size 21 uses front and rear shield sleeves



RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse



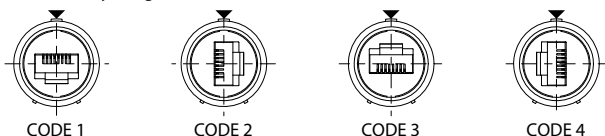
805-301 Triple-Start Connector with RJ45 Plug (Plug) or Jack (Receptacle) to Crimp Removable Contacts

Series 805 Triple Start

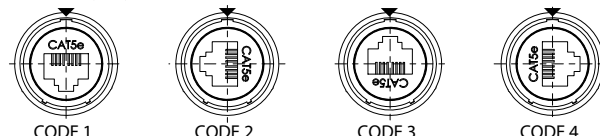
How To Order										
Sample Part Number	805-301	-	NF	01	G	21	5H	A	1	
Series	805-301 = Crimp Contacts									
Rear Accessory Option	- = Accessory Thread and Teeth B = Integral Boot Adapter S = Integral Banding Platform									
Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel									
Shell Style ¹	01 = In Line Receptacle 02 = Front or Rear Panel Mount Square Flange Receptacle 12 = Rear Panel Mount Square Flange Receptacle with "Non-Locking" Clinch Nuts 22 = Rear Panel Mount Square Flange Receptacle with "Locking" Clinch Nuts 07 = Rear Panel Mount Jam Nut Receptacle 16 = Plug									
Shielding/Grounding	G = Shielded and grounded to shell									
Shell Size	21 = Shell Size 21									
RJ45 Category	5H = Cat 5E For Cat 6A applications consult factory									
Alternate Key Positions ¹	A, B, C, D, E, F; A = Normal									
RJ45 Orientation Option	1, 2, 3, 4									

RJ45 JACK ORIENTATION OPTIONS

▼ = Master Key (Plug)

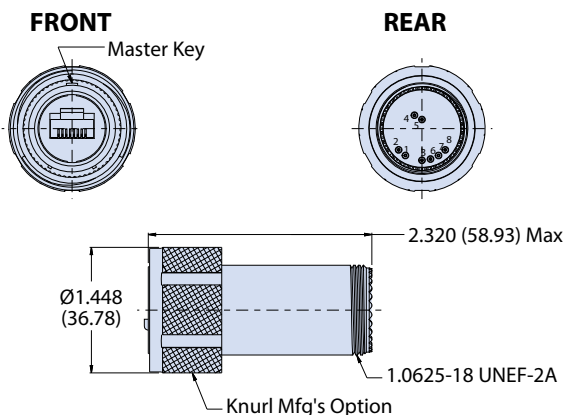


▼ = Master Keyway (Receptacle)



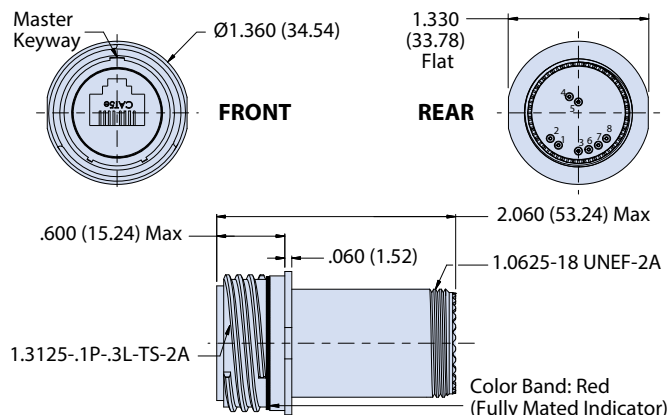
SHELL STYLE 16 PLUG

RJ45 Plug Category (CAT 5e) Orientation 3 Shown



SHELL STYLE 01 IN-LINE RECEPTACLE

RJ45 Jack Category (CAT 5e) Orientation 3 Shown



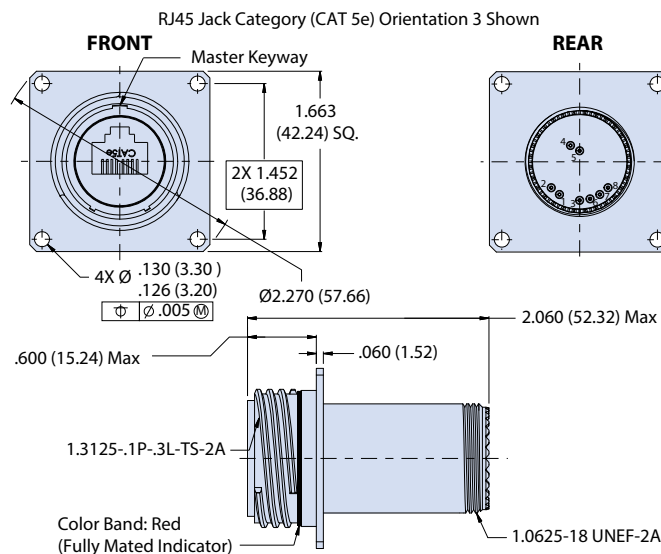


RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse

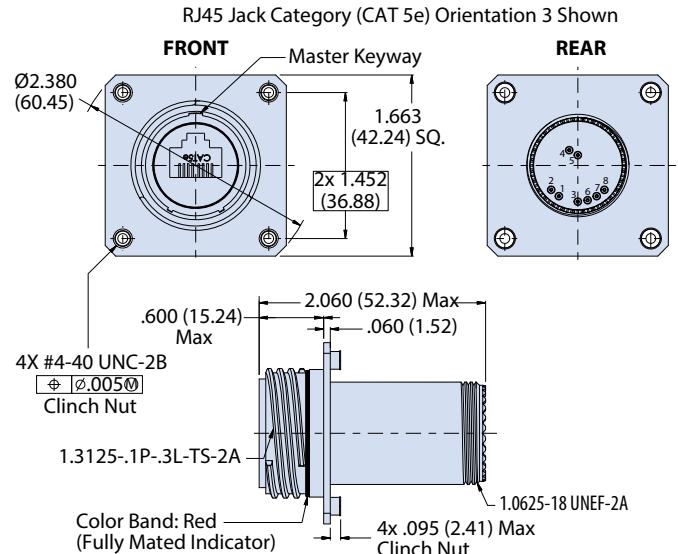


805-301 Triple-Start Connector with RJ45 Plug (Plug) or Jack (Receptacle) to Crimp Removable Contacts

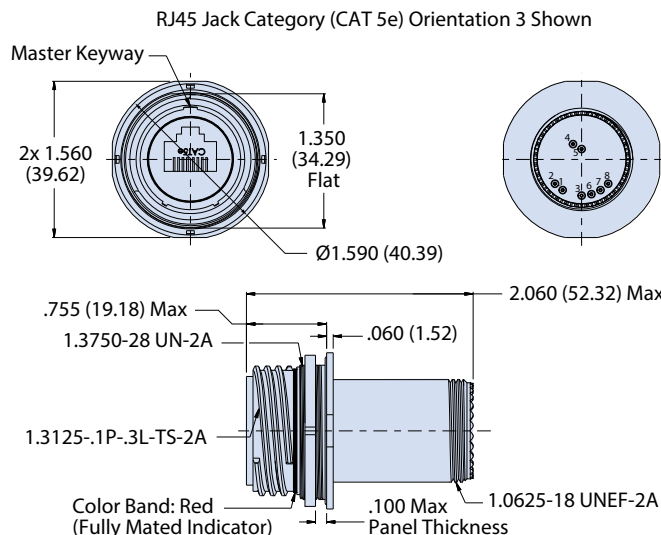
SHELL STYLE 02 FRONT OR REAR PANEL MOUNT RECEPTACLE



SHELL STYLE 12 & 22 REAR PANEL MOUNT RECEPTACLE WITH CLINCH NUTS



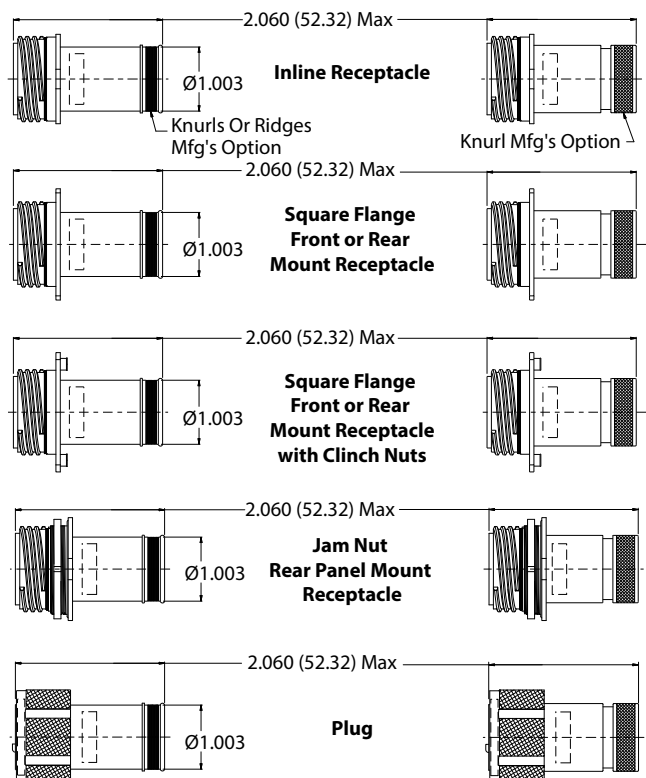
SHELL STYLE 07 REAR PANEL MOUNT JAM NUT RECEPTACLE



REAR ACCESSORY OPTIONS

S - Integrated Banding Platform

B - Integrated Boot Adaptor



NOTES

1. See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
2. Meets IP67 sealing requirement in unmated condition
3. Supplied with size 23 crimp pin contacts (809-001 supplied loose)

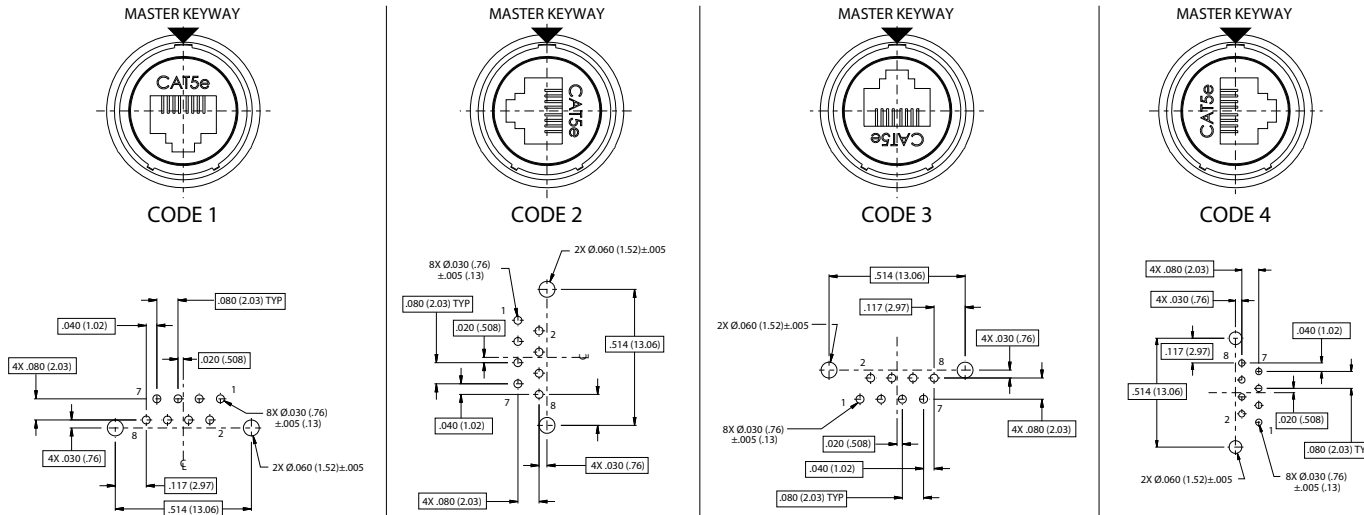


RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse 805-302 Triple-Start Receptacle with RJ45 Jack to PC Tail Termination



How To Order								
Sample Part Number	805-302	NF	07	G	19	5H	A	1
Series	805-302 = PC Tail							
Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel							
Shell Style ¹	02 = Front or Rear Panel Mount Square Flange Receptacle 12 = Rear Panel Mount Square Flange Receptacle with "Non-Locking" Clinch Nuts 22 = Rear Panel Mount Square Flange Receptacle with "Locking" Clinch Nuts 07 = Rear Panel Mount Jam Nut Receptacle							
Grounding	G = Shielded and grounded to shell For improved 360° shielding performance select shell size 21							
Shell Size	19 = Shell Size 19 21 = Shell Size 21							
RJ45 Category	5H = Cat 5E For Cat 6A applications consult factory							
Alternate Key Positions ¹	A, B, C, D, E, F ; A = Normal							
RJ45 Orientation Option	1, 2, 3, 4							

RJ45 RECEPTACLE ORIENTATION OPTIONS AND PCB FOOTPRINT (PARTIAL VIEWS SHOWN)



Square Flange Mount Dimensions									
Shell Size	Ø A	B Flat	C Thread	Ø D	Ø E	F SQ	G BSC	Ø H	J SQ
19	1.235 (31.69)	1.205 (30.61)	1.1875-1P-3L-TS-2A	0.912 (23.16)	2.094 (53.19)	1.537 (39.04)	1.327 (33.71)	2.197 (55.80)	1.647 (41.83)
21	1.360 (34.54)	1.330 (33.78)	1.3125-1P-3L-TS-2A	1.017 (25.83)	2.270 (57.66)	1.663 (42.24)	1.452 (36.88)	2.380 (60.45)	1.772 (45.01)

Jam Nut and Plug Dimensions				
Shell Size	Ø K	L	M Flat	N Thread
19	1.450 (36.83)	1.420 (36.07)	1.221 (31.01)	1.2500-28 UN-2A
21	1.590 (40.39)	1.560 (39.62)	1.350 (34.29)	1.3750-28 UN-2A

NOTES

1. See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions
2. Meets IP67 sealing requirement in unmated condition

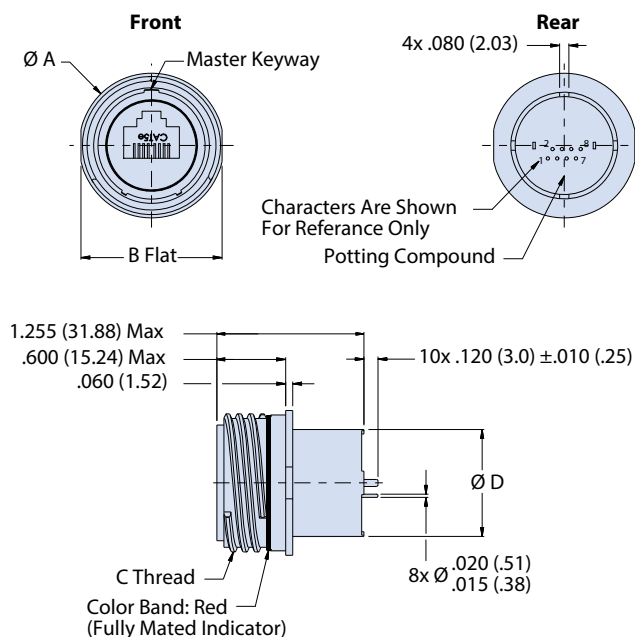


RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse 805-302 Triple-Start Receptacle with RJ45 Jack to PC Tail Termination



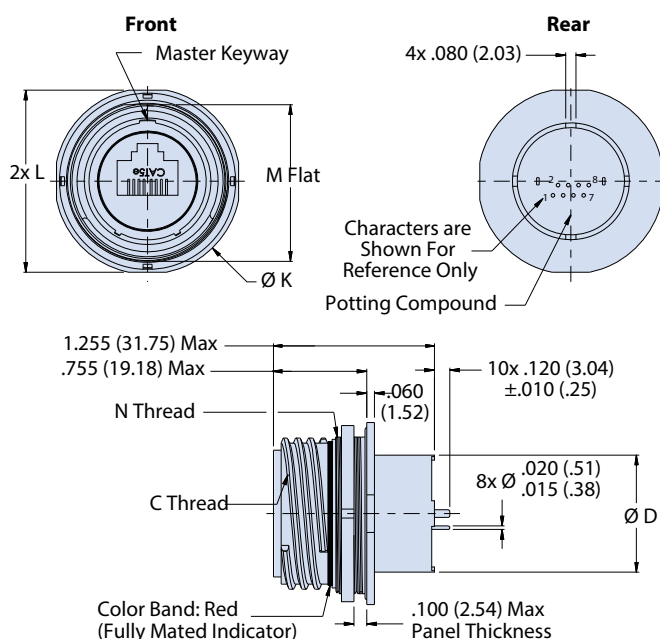
SHELL STYLE 01 INLINE

RJ45 Jack Category (Cat 5e) Orientation 3 Shown



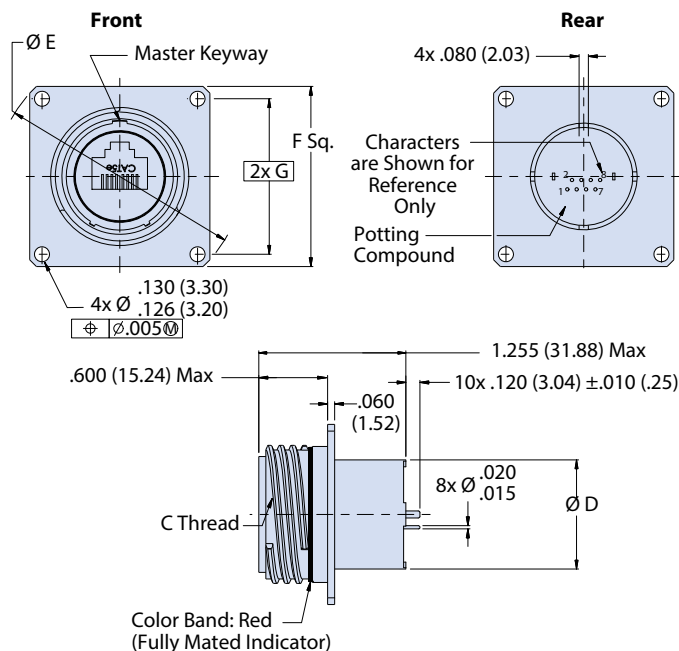
SHELL STYLE 07 JAM NUT

RJ45 Jack Category (Cat 5e) Orientation 3 Shown



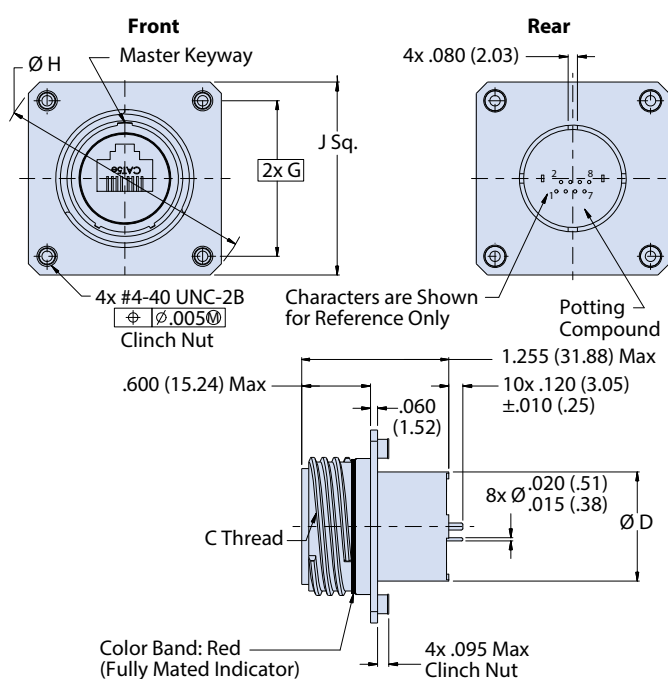
SHELL STYLE 02 FRONT OR REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE

RJ45 Jack Category (Cat 5e) Orientation 3 Shown



SHELL STYLE 12 AND 22 REAR PANEL MOUNT SQ FLANGE RECEPTACLE WITH CLINCH NUTS

RJ45 Jack Category (CAT 5e) Orientation 3 Shown



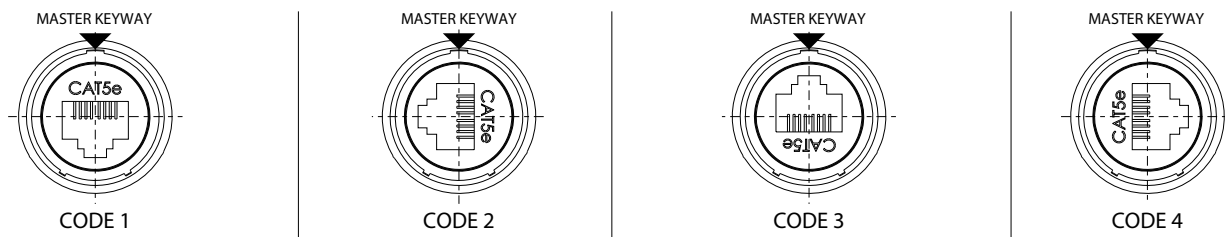


RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse 805-303 Triple-Start Receptacle with RJ45 Jack to Solder Cup Termination



How To Order									
Sample Part Number	805-303	NF	07	G	19	5H	A	1	
Series	805-303 = Solder Cup								
Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel								
Shell Style ¹	02 = Front or Rear Panel Mount Square Flange Receptacle 12 = Rear Panel Mount Square Flange Receptacle with "Non-Locking" Clinch Nuts 22 = Rear Panel Mount Square Flange Receptacle with "Locking" Clinch Nuts 07 = Rear Panel Mount Jam Nut Receptacle								
Grounding	G = Shielded and grounded to shell For improved 360° shielding performance select shell size 21								
Shell Size	19 = Shell Size 19 21 = Shell Size 21								
RJ45 Category	5H = Cat 5E For Cat 6A applications consult factory								
Alternate Key Positions ¹	A, B, C, D, E, F ; A = Normal								
RJ45 Orientation Option	1, 2, 3, 4								

RJ45 RECEPTACLE ORIENTATION OPTIONS (PARTIAL VIEWS SHOWN)



Square Flange Mount Dimensions									
Shell Size	Ø A	B Flat	C Thread	Ø D	Ø E	F SQ	G BSC	Ø H	J SQ
19	1.235 (31.69)	1.205 (30.61)	1.1875-.1P-.3L-TS-2A	.912 (23.16)	2.094 (53.19)	1.537 (39.04)	1.327 (33.71)	2.197 (55.80)	1.647 (41.83)
21	1.360 (34.54)	1.330 (33.78)	1.3125-.1P-.3L-TS-2A	1.017 (25.83)	2.270 (57.66)	1.663 (42.24)	1.452 (36.88)	2.380 (60.45)	1.772 (45.01)

Jam Nut and Plug Dimensions				
Shell Size	Ø K	L	M Flat	N Thread
19	1.450 (36.83)	1.420 (36.07)	1.221 (31.01)	1.2500-28 UN-2A
21	1.590 (40.39)	1.560 (39.62)	1.350 (34.29)	1.3750-28 UN-2A

NOTES

- See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions
- Meets IP67 sealing requirement in unmated condition
- Materials/Finishes:
 - Insulators: high grade rigid dielectric/n.a.
 - contacts: copper alloy, gold plated
 - seals: silicone based elastomer
 - RJ45 coupler housing: UL94V-0 compliant ABS or PPS
 - hardware: stainless steel/passivated

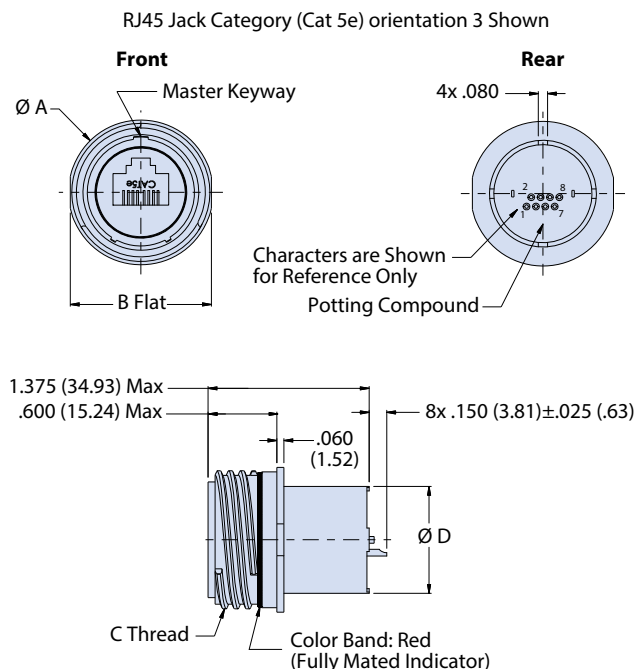


RJ45 CAT 5E ETHERNET COMPATIBLE Series 801, 804 and 805 Mighty Mouse

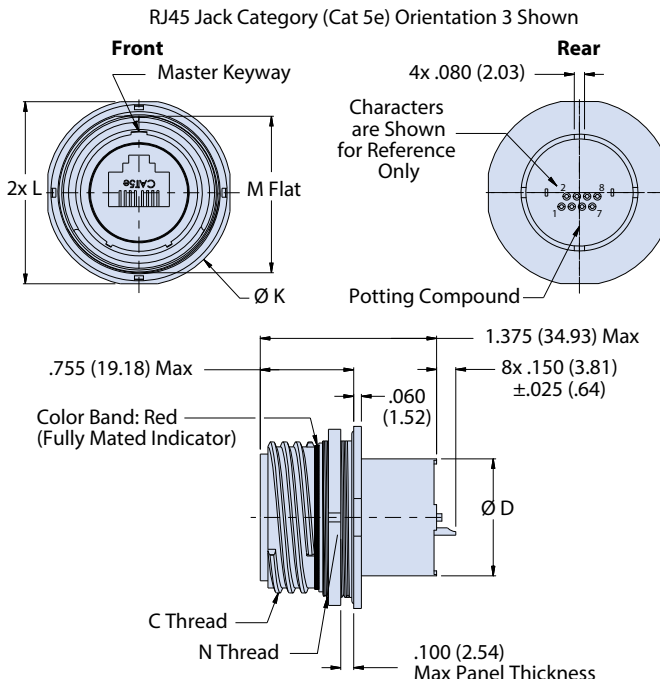
805-303 Triple-Start Receptacle with RJ45 Jack to Solder Cup Termination



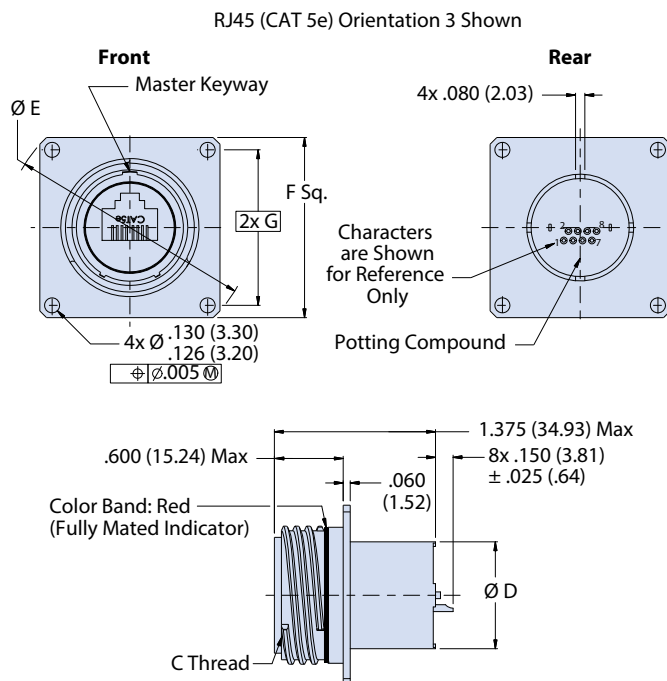
SHELL STYLE 01 INLINE



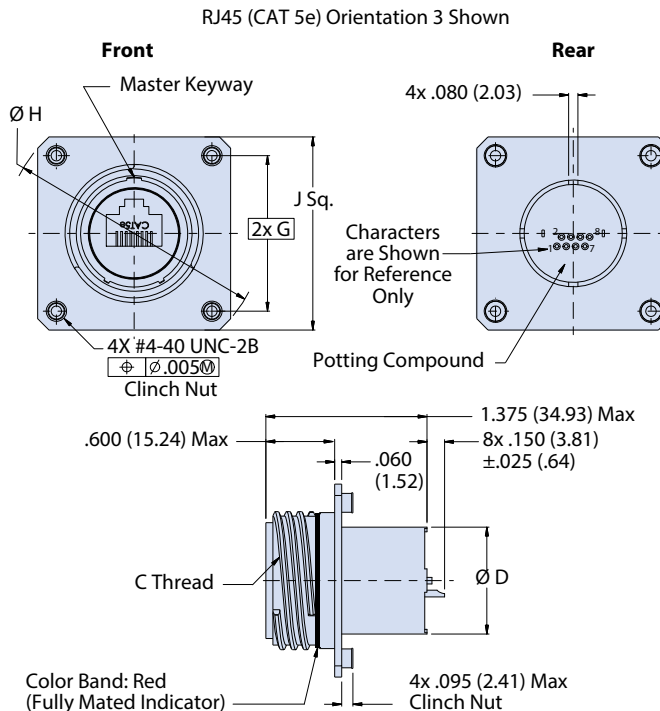
SHELL STYLE 07 JAM NUT



SHELL STYLE 02 FRONT OR REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE



SHELL STYLE 12 AND 22 REAR PANEL MOUNT SQ FLANGE RECEPTACLE WITH CLINCH NUTS



SERIES 80 MIGHTY
MOUSE FIELD-READY
STANDARD USB

SUPERSEAL™



Series 801, 804 and 805 Mighty Mouse connectors with superior sealing, shielding and a variety of termination options.



Features

- Superior sealing— IP67 unmated and IP68 when mated—for complete system protection against water, sand and dust
- Couple, Crimp contact, PC tail and solder cup termination options available
- Integral banding porch or connector accessory interface
- Standard USB 2.0 plugs and receptacles
- Series 804 push/pull, Series 801 double-start or Series 805 triple-start, stub ACME threaded coupling.
- Less than half the size and weight compared to MIL-DTL-38999 type solutions



Glenair, Inc.
1211 Air Way
Glendale, CA 91201-2497
818-247-6000
sales@glenair.com
www.glenair.com



USB 2.0 TYPE A Series 801, 804 and 805 Mighty Mouse Product Selection Guide



Series 801 Double-Start



801-340 Page L-2
SuperSeal™ Coupler with Accessory Options and USB Male-to-Female (Plug) or Female-to-Female (Receptacle).

801-341 Page L-4
SuperSeal™ Connector with Accessory Options and USB Male (Plug) or Female (Receptacle) to Crimp Removable Contacts.

801-342 PC Tail or 801-343 Solder Cup Page L-6
SuperSeal™ Receptacles with USB Female Interface to PC Tail or Solder Cup Termination.

Series 804 Push/Pull



804-340 Page L-8
SuperSeal™ Coupler with Accessory Options and USB Male-to-Female (Plug) or Female-to-Female (Receptacle).

804-341 Page L-10
SuperSeal™ Connectors with Accessory Options and USB Male (Plug) or Female (Receptacle) to Rear Release Crimp Socket Contacts.

804-342 PC Tail and 801-343 Solder Cup Page L-12
SuperSeal™ Receptacles with USB Female Interface to PC Tail or Solder Cup Termination.

Series 805 Triple-Start



805-340 Page L-14
SuperSeal™ Coupler with Accessory Options and USB Male-to-Female (Plug) or Female-to-Female (Receptacle).

805-341 Page L-16
SuperSeal™ Connectors with Accessory Options and USB Male (Plug) or Female (Receptacle) to Rear Release Crimp Socket Contacts. .

805-342 PC Tail Page L-18
SuperSeal™ Receptacle with USB Female Interface to PC Tail Termination.

805-343 Solder Cup Page L-20
SuperSeal™ Receptacle with USB Female Interface to Solder Cup Termination.



USB 2.0 TYPE A

Series 801, 804 and 805 Mighty Mouse



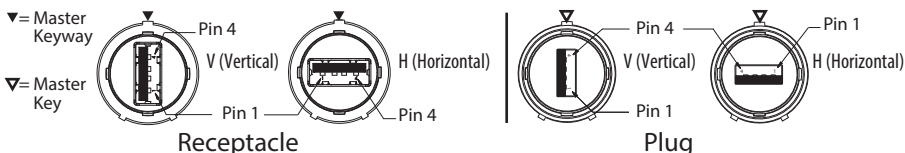
801-340 Coupler with USB Male-to-Female (Plug) or Female-to-Female (Receptacle)

How To Order									
Sample Part Number	801-340	-	NF	07	-16	2	A	A	H
Series	801-340								
Rear Accessory Option	- = Accessory Thread and Teeth S = Integrated Banding Platform B = Integrated Boot Adaptor								
Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel								
Shell Style ¹	01 = In Line Receptacle 02 = Front or Rear Panel Mount Square Flange Receptacle 07 = Rear Panel Mount Jam Nut Receptacle 26 = Plug								
Shell Size	16 = Shell Size 16								
USB Performance	2 = USB 2.0								
USB Type	A = Type A								
Alternate Key Positions ¹	A, B, C, D, E, F								
USB Orientation	H = Horizontal V = Vertical								

NOTES

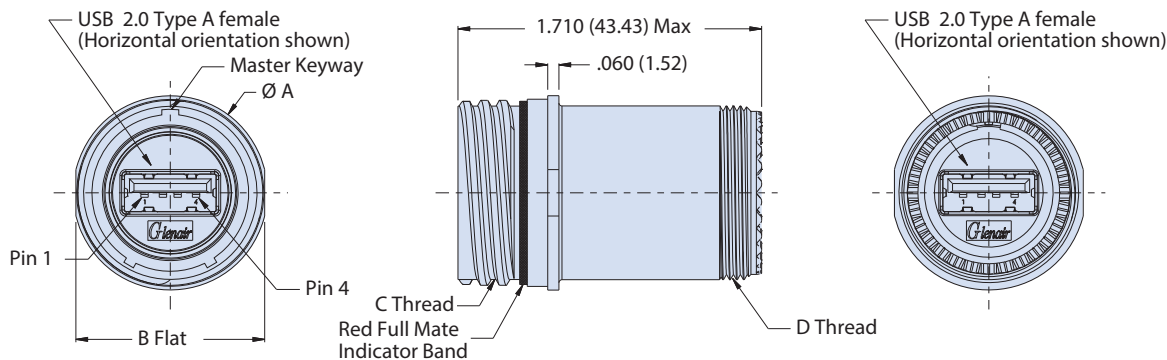
- See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
- Meets IP67 sealing requirement in unmated condition

USB 2.0 ORIENTATION OPTIONS



Dimensions											
Size Shell	Ø A	B Flat	C Threads	D Threads	Ø E	F Sq	G Bsc	Ø J	K Flat	M Threads	Ø N
16	1.040 (26.42)	1.010 (25.65)	1.0000-.1P-.2L-DS-2A	.9375-20 UNEF-2A	1.625 (41.28)	1.219 (30.96)	.981 (24.92)	1.264 (32.11)	1.230 (31.24)	1.0625-20 UN-2A	1.230 (31.24)

SHELL STYLE 01 INLINE RECEPTACLE



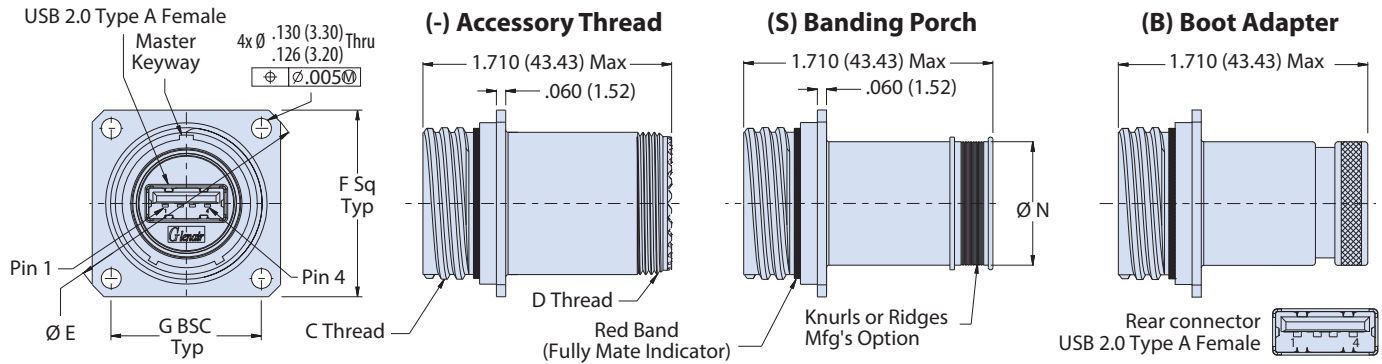


USB 2.0 TYPE A Series 801, 804 and 805 Mighty Mouse 801-340 Coupler with USB Male-to-Female (Plug) or Female-to-Female (Receptacle)

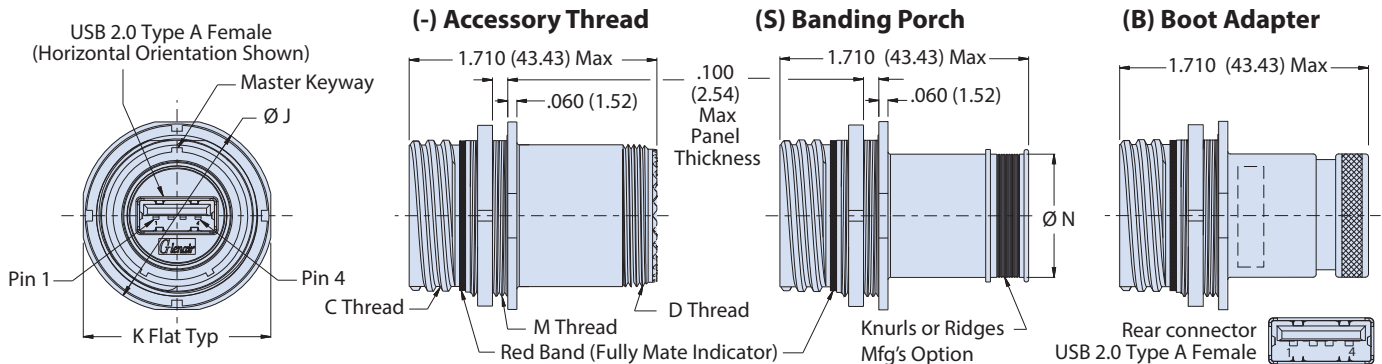


Series 801 Double Start

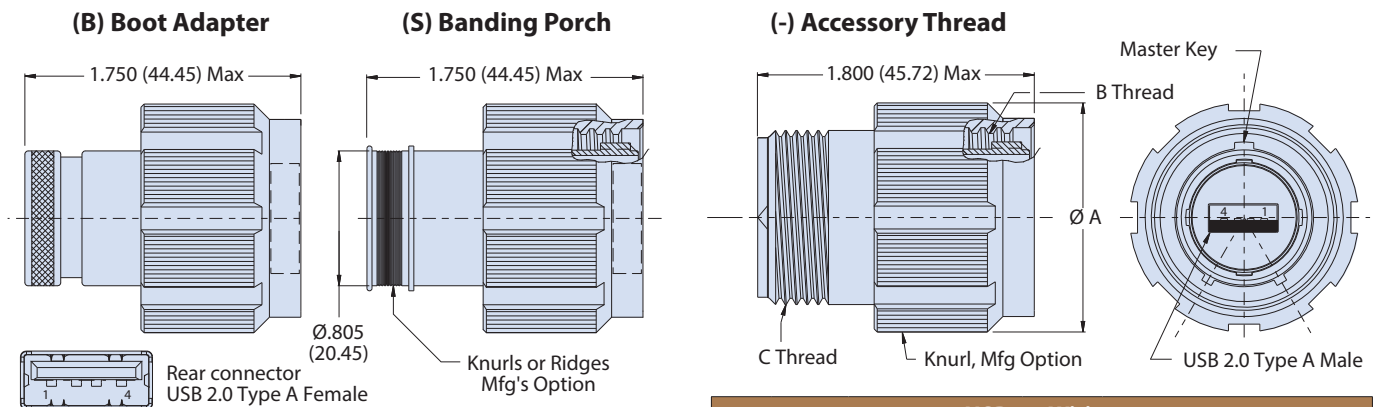
SHELL STYLE 02 FRONT OR REAR SQUARE FLANGE RECEPTACLE



SHELL STYLE 07 REAR PANEL MOUNT JAM NUT RECEPTACLE



SHELL STYLE 26 PLUG



Plug Dimensions			
Shell Size	Ø A	B Threads	C Threads
16	1.340 (34.04)	1.0000-1P-2L-2B	.9375-20 UNEF-2A

USB 2.0 Wiring				
Pin	Name	Cable Color(USB)	Desc.	Recommended Wire Size (AWG)
1	(V Bus)	Red	+5 V	22
2	(D-)	White	Data -	28
3	(D+)	Green	Data +	28
4	(GND)	Black	Ground	22



USB 2.0 TYPE A

Series 801, 804 and 805 Mighty Mouse



801-341 Connector with USB Male (Plug) or Female (Receptacle) to Crimp Removable Contacts

Series 801 Double Start

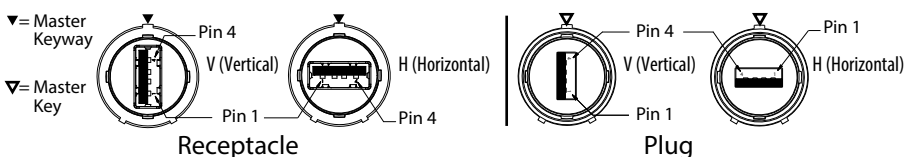
How To Order									
Sample Part Number	801-341	-	NF	07	-16	2	A	A	H
Series	801-341								
Rear Accessory Option	- = Accessory Thread and Teeth B = Integrated Boot Adaptor S = Integrated Banding Platform								
Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel								
Shell Style ¹	01 = In Line Receptacle 02 = Front or Rear Panel Mount Square Flange Receptacle 07 = Rear Panel Mount Jam Nut Receptacle 26 = Plug								
Shell Size	16 = Shell Size 16								
USB Performance	2 = USB 2.0								
USB Type	A = Type A								
Alternate Key Positions ¹	A, B, C, D, E, F; Omit for single keyway (non polarized)								
USB Orientation	H = Horizontal V = Vertical								

NOTES

- See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
- Meets IP67 sealing requirement in unmated condition
- Supplied with size 23 socket contacts (809-002 supplied loose)
1 extra contact provided
- Material/Finish
 - Shell, jam nut: al alloy or cnes
 - Seal/o-ring fluorosilicone

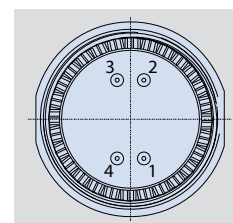
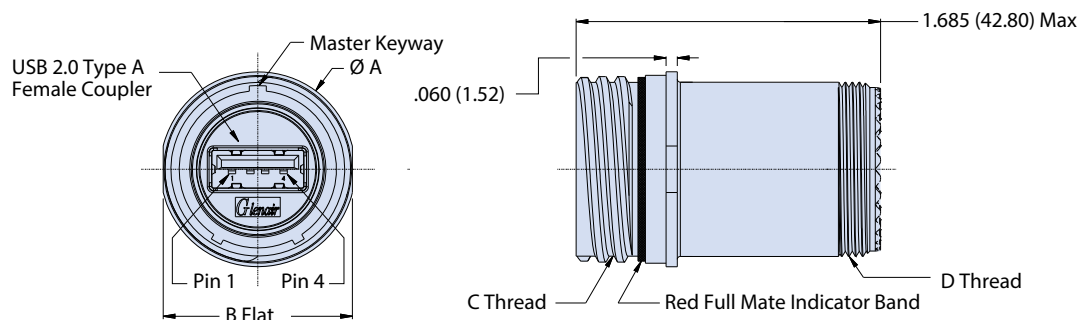
USB 2.0 Wiring				
Pin	Name	Cable Color (USB)	Desc.	Recommended Wire Size (AWG)
1	(V Bus)	Red	+5 V	22
2	(D-)	White	Data -	28
3	(D+)	Green	Data +	28
4	(GND)	Black	Ground	22

USB 2.0 ORIENTATION OPTIONS



Receptacle Dimensions											
Size Shell	Ø A	B Flat	C Threads	D Threads	Ø E	F Sq	G Bsc	Ø J	K Flat	M Threads	Ø N
16	1.040 (26.42)	1.010 (25.65)	1.0000-.1P-.2L-DS-2A	.9375-20 UNEF-2A	1.625 (41.28)	1.219 (30.96)	.981 (24.92)	1.264 (32.11)	1.230 (31.24)	1.0625-20 UN-2A	1.230 (31.24)

SHELL STYLE 01 IN-LINE RECEPTACLE



Rear contact positions apply to all shell styles



USB 2.0 TYPE A

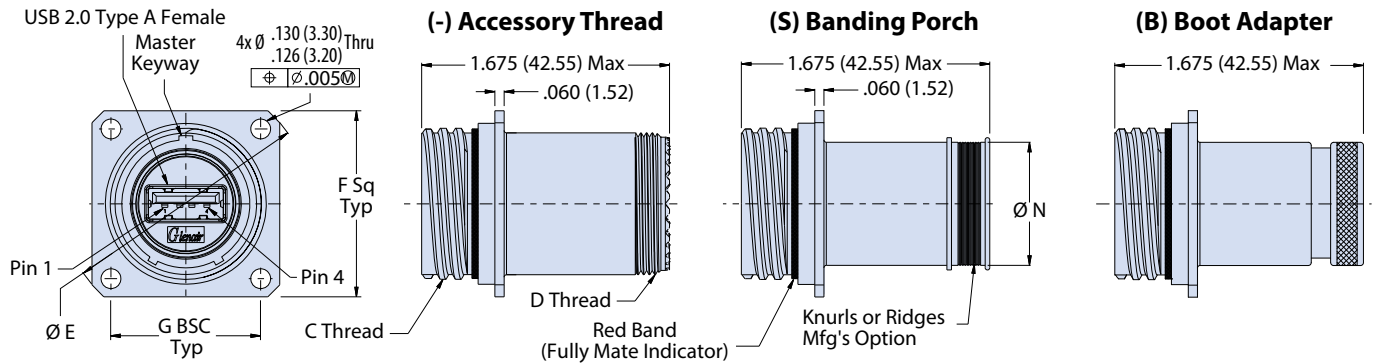
Series 801, 804 and 805 Mighty Mouse



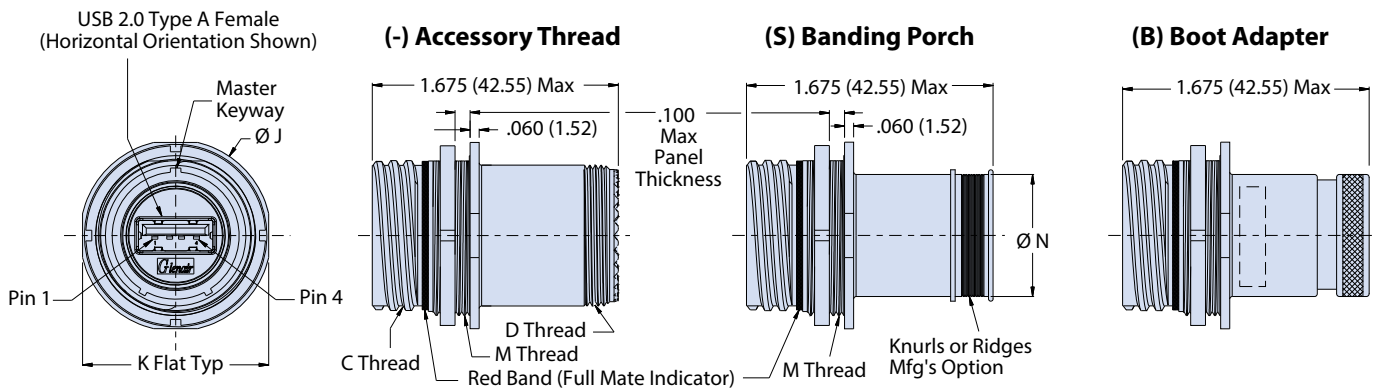
801-341 Connector with USB Male (Plug) or Female (Receptacle) to Crimp Removable Contacts

Series 801 Double Start

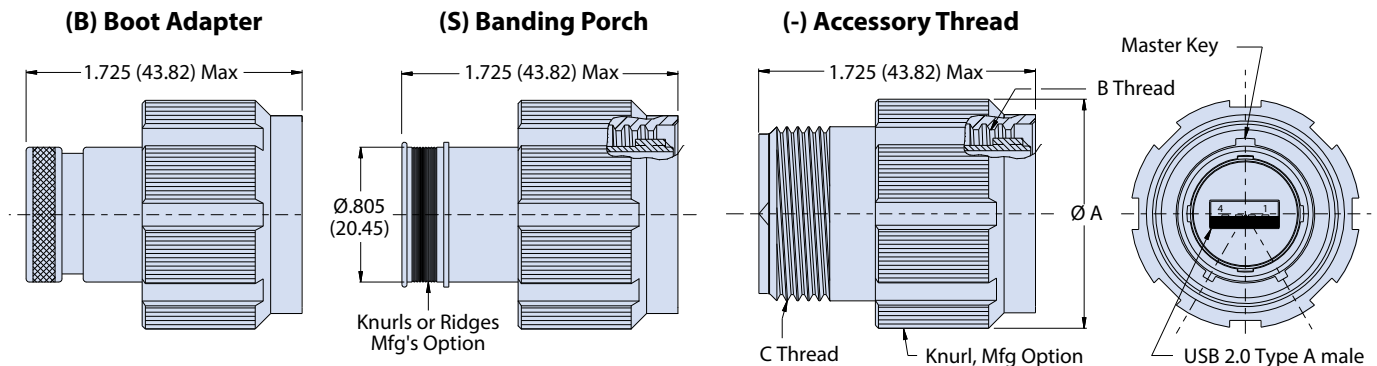
SHELL STYLE 02 FRONT OR REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE



SHELL STYLE 07 REAR PANEL MOUNT JAM NUT RECEPTACLE



SHELL STYLE 26 PLUG



Plug Diameter			
Shell Size	ØA	B Thread	C Threads
16	1.340 (34.04)	1.0000-.1P-.2L-2B	.9375-20 UNEF-2A



USB 2.0 TYPE A

Series 801, 804 and 805 Mighty Mouse



801-342 or 801-343 Receptacles with USB Female Interface to PC Tail or Solder Cup Termination

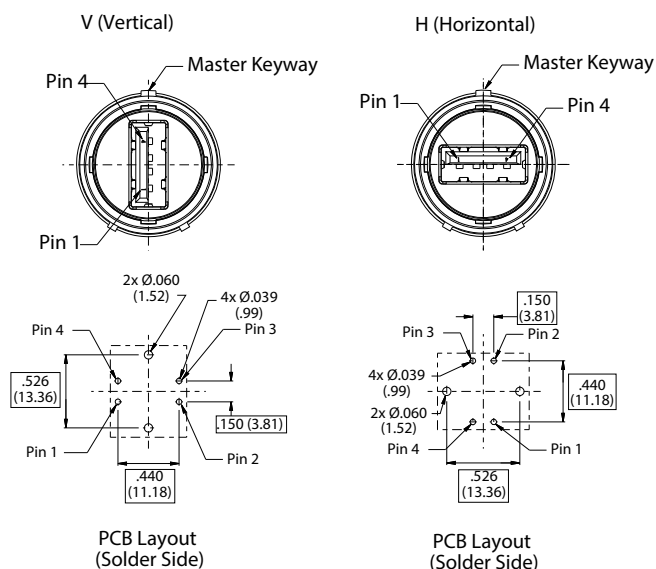
Series 801 Double Start

How To Order								
Sample Part Number	801-342	NF	07	-16	2	A	A	H
Series	801-342 = PC Tail 801-343 = Solder Cup							
Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel							
Shell Style ¹	02 = Front or Rear, Square Flange Panel Mount Receptacle 07 = Jam Nut Receptacle, Rear Panel Mount							
Shell Size	16 = Shell Size 16							
USB Performance	2 = USB 2.0							
USB Type	A = Type A							
Aternate Key Positions ¹	A, B, C, D, E, F							
USB Orientation	H = Horizontal V = Vertical							

Dimensions							
Size Shell	C Threads	Ø E	F Sq	G Bsc	Ø J	K Flat	M Threads
16	1.0000-.1P-.2L-DS-2A	1.625 (41.28)	1.219 (30.96)	0.981 (24.92)	1.264 (32.11)	1.230 (31.24)	1.0625-20 UN-2A

USB 2.0 Wiring				
Pin	Name	Cable Color (USB)	Description	Recommended Wire Size (AWG)
1	(V Bus)	Red	+5 V	22
2	(D-)	White	Data -	28
3	(D+)	Green	Data +	28
4	(GND)	Black	Ground	22

USB 2.0 ORIENTATION OPTIONS



PCB layouts apply to 801-342. USB orientation applies to 801-342 and 801-343



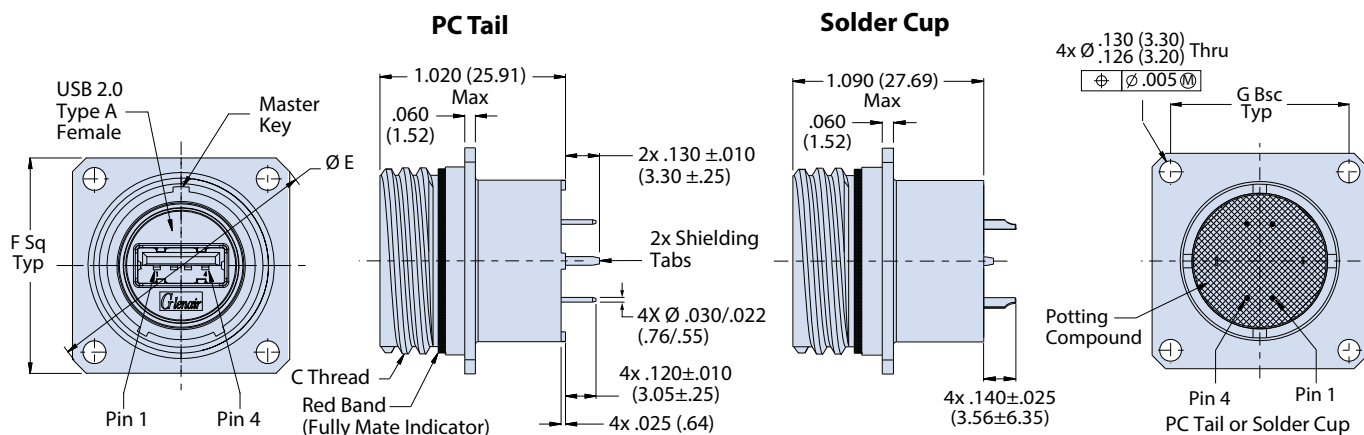
USB 2.0 TYPE A

Series 801, 804 and 805 Mighty Mouse

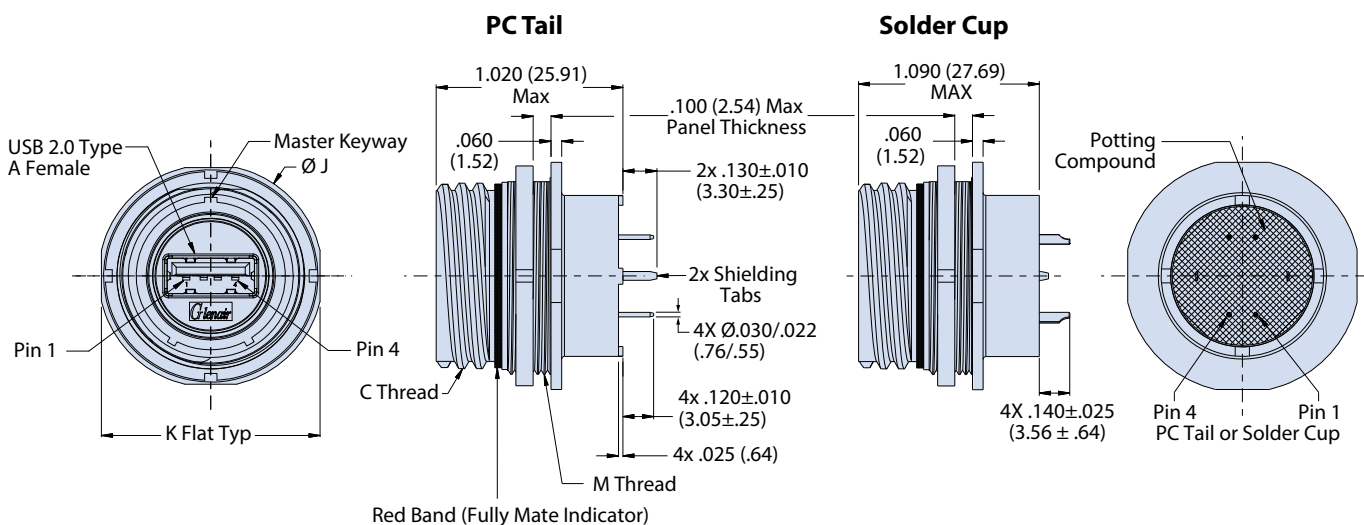


801-342 or 801-343 Receptacles with USB Female Interface to PC Tail or Solder Cup Termination

SHELL STYLE 02 SQUARE FLANGE RECEPTACLE FOR 801-342 PC TAIL AND 801-343 SOLDER CUP



SHELL STYLE 07 JAM NUT RECEPTACLE FOR 801-342 PC TAIL AND 801-343 SOLDER CUP



NOTES

1. See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
2. Meets IP67 sealing requirement in unmated condition
3. Material/Finish
 - Shell, jam nut: al alloy or cres
 - Seal/o-ring fluorosilicone
 - Sealant: RTV



USB 2.0 TYPE A

Series 801, 804 and 805 Mighty Mouse



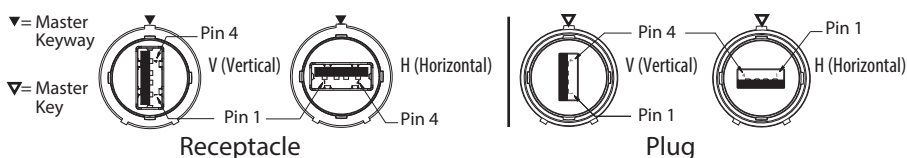
804-340 Coupler with USB Male-to-Female (Plug) or Female-to-Female (Receptacle)

Series 804 Push/Pull

How To Order									
Sample Part Number	804-340	-	NF	07	-14	2	A	A	H
Series	804-340								
Rear Accessory Option	- = Accessory Thread and Teeth B = Integrated Boot Adaptor S = Integrated Banding Platform								
Material and Finish ¹	NF = Aluminum/Cadmium Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel								
Shell Style ¹	01 = In Line Receptacle 00 = Jam Nut Receptacle, Front Panel Mount 07 = Jam Nut Receptacle, Rear Panel Mount 06 = Plug								
Shell Size	14 = Shell Size 14								
USB Performance	2 = USB 2.0								
USB Type	A = Type A								
Alternate Key Positions ¹	A, B, C, D, E, F ; Omit for single keyway (non polarized)								
USB Orientation	H = Horizontal V = Vertical								

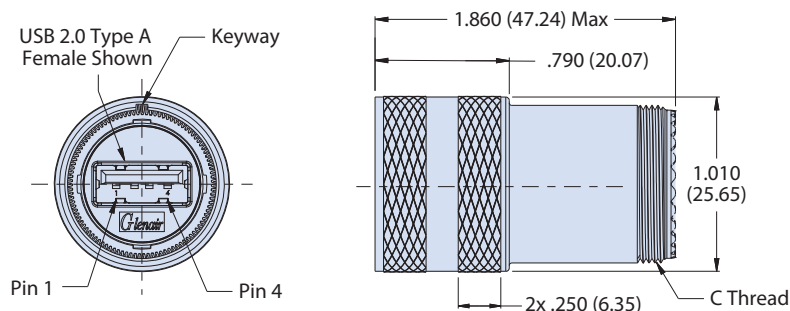
USB 2.0 Wiring				
Pin	Name	Cable Color (USB)	Desc.	Recommended Wire Size (AWG)
1	(V Bus)	Red	+5 V	22
2	(D-)	White	Data -	28
3	(D+)	Green	Data +	28
4	(GND)	Black	Grnd	22

USB 2.0 ORIENTATION OPTIONS



Dimensions						
Size Shell	Mounting Style	Ø A	B Threads	C Threads	Ø D	K Threads
14	Front Mount	--	--	.9375-20 UNEF-2A	1.390 (35.31)	1.0620-20 UN-2A
	Rear Mount	1.325 (33.66)	1.0000-28 UN-2A	.9375-20 UNEF-2A	--	--

SHELL STYLE 01 IN-LINE RECEPTACLE



NOTES

- See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
- Meets IP67 sealing requirement in unmated condition

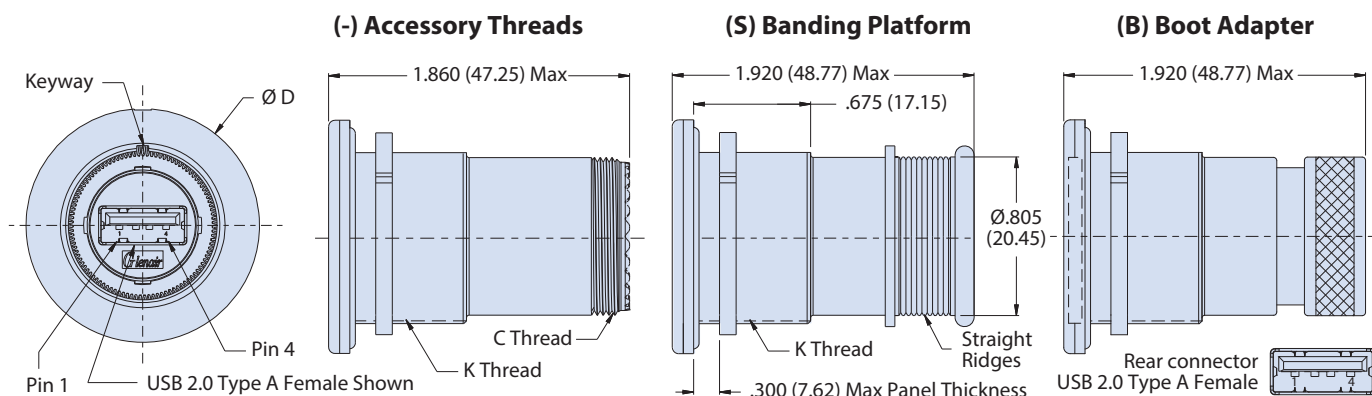


USB 2.0 TYPE A Series 801, 804 and 805 Mighty Mouse 804-340 Coupler with USB Male-to-Female (Plug) or Female-to-Female (Receptacle)

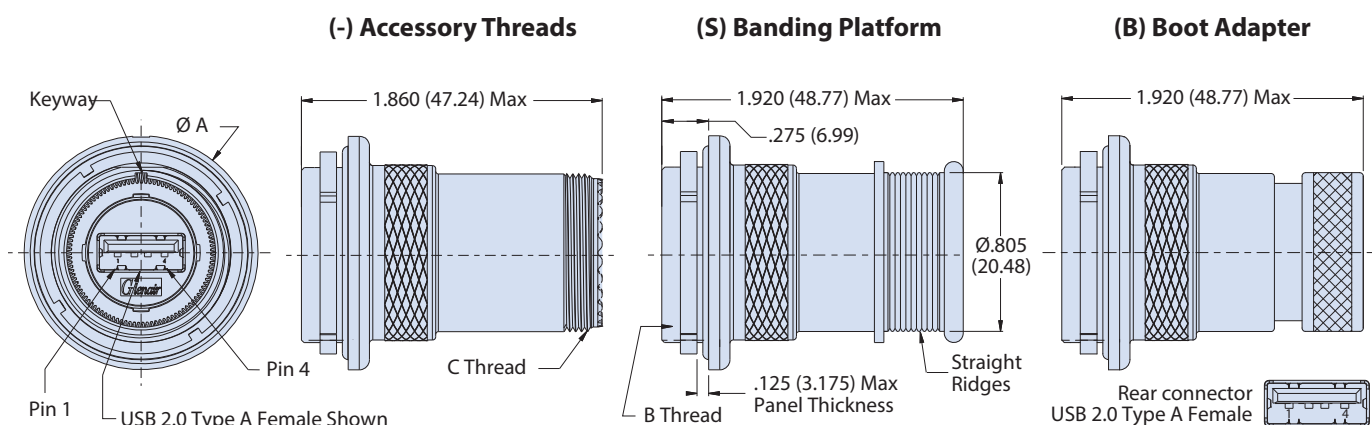


Series 804 Push/Pull

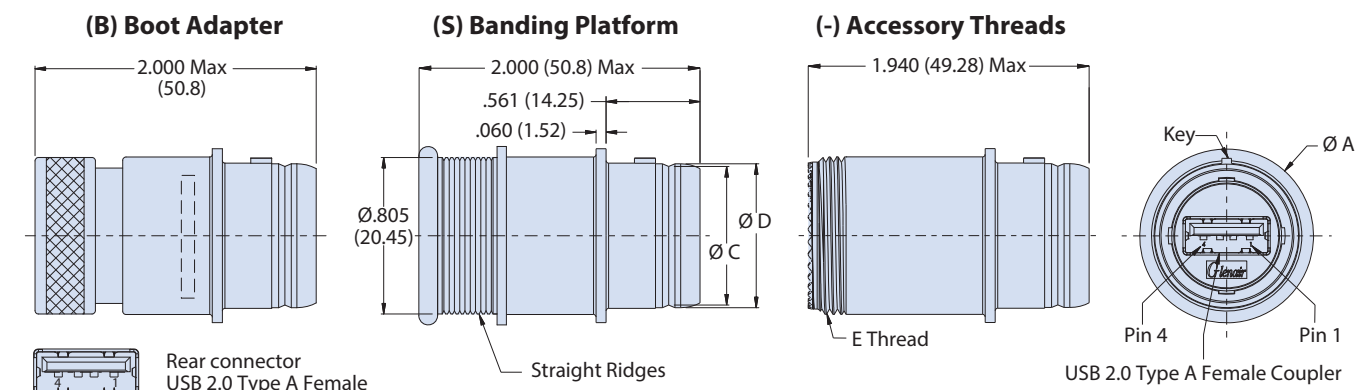
SHELL STYLE 00 FRONT PANEL MOUNT JAM NUT RECEPTACLE



SHELL STYLE 07 REAR PANEL MOUNT JAM NUT RECEPTACLE



SHELL STYLE 06 PLUG



Plug Dimensions				
Size Shell	Ø A Max	Ø C	Ø D	E Thd
14	.985 (25.02)	.768 (19.51)	.800 (20.32)	.9375-20 UNEF-2A



USB 2.0 TYPE A Series 801, 804 and 805 Mighty Mouse



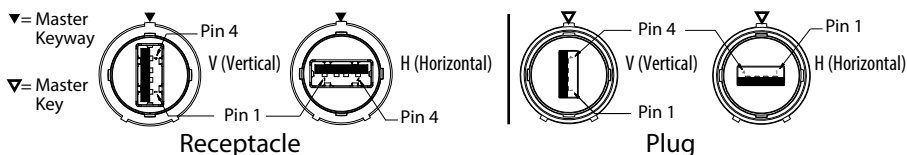
804-341 Connectors with USB Male (Plug) or Female (Receptacle) to Crimp Removable Contacts

Series 804 Push/Pull

How To Order										
Sample Part Number	804-341	-	NF	07	-14	2	A	A	H	
Series	804-341									
Rear Accessory Option	- = Accessory Thread and Teeth B = Integrated Boot Adaptor S = Integrated Banding Platform									
Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab MT = Aluminum/Nickel PTFE M = Aluminum/Electroless Nickel ZNU = Aluminum/Black Zinc Nickel									
Shell Style ¹	01 = In Line Receptacle 00 = Front Panel Mount Jam Nut Receptacle 07 = Rear Panel Mount Jam Nut Receptacle 06 = Plug									
Shell Size	14 = Shell Size 14									
USB Performance	2 = USB 2.0									
USB Type	A = Type A									
Alternate Key Positions ¹	A, B, C, D, E, F; Omit for single keyway (non polarized)									
USB Orientation	H = Horizontal V = Vertical									

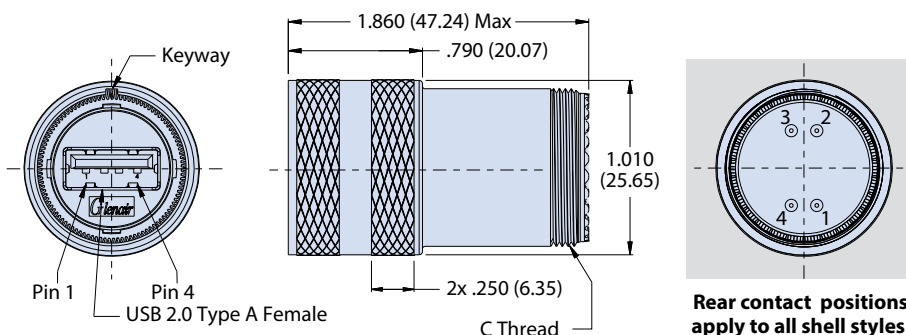
USB 2.0 Wiring				
Pin	Name	Cable Color (USB)	Desc.	Recommended Wire Size (AWG)
1	(V Bus)	Red	+5 V	22
2	(D-)	White	Data -	28
3	(D+)	Green	Data +	28
4	(GND)	Black	Ground	22

USB 2.0 ORIENTATION OPTIONS



Receptacle Dimensions						
Shell Size	Mounting Style	Ø A	B Threads	Ø D	K Threads	C Threads
14	Front Mount	-	-	1.390 (35.31)	1.0620-20 UN-2A	.9375-20 UNEF-2A
	Rear Mount	1.325 (33.66)	1.0000-28 UN-2A	-	-	.9375-20 UNEF-2A

SHELL STYLE 01 IN-LINE RECEPTACLE



NOTES

1. See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
2. Meets IP67 sealing requirement in unmated condition
3. Supplied with size 23 crimp socket contacts (809-002 supplied loose)
4. Material/finish
 - Shell, jam nut: al alloy or cres
 - Seal/o-ring: fluorosilicone



USB 2.0 TYPE A

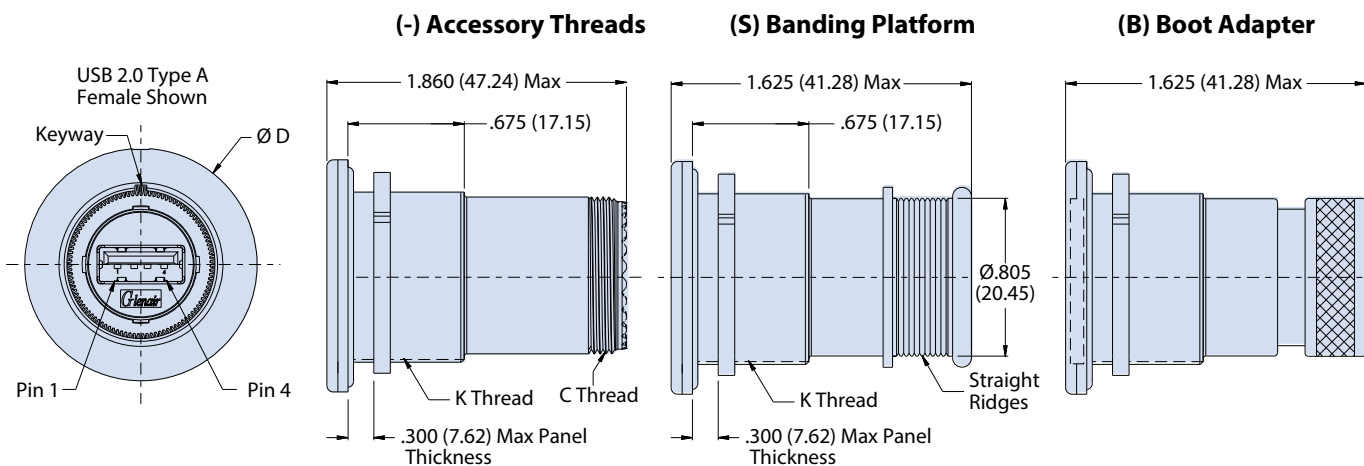
Series 801, 804 and 805 Mighty Mouse



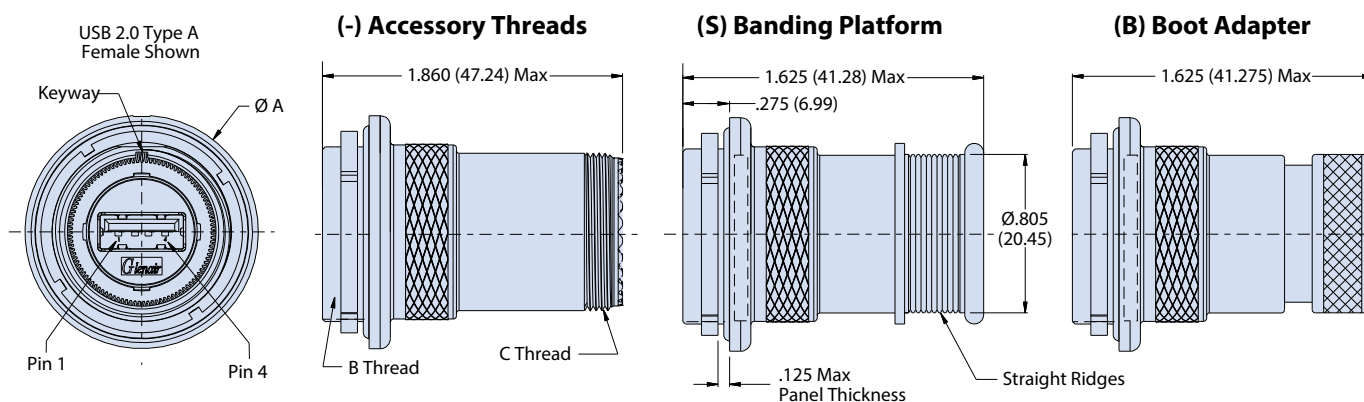
804-341 Connectors with USB Male (Plug) or Female (Receptacle) to Crimp Removable Contacts

Series 804 Push/Pull

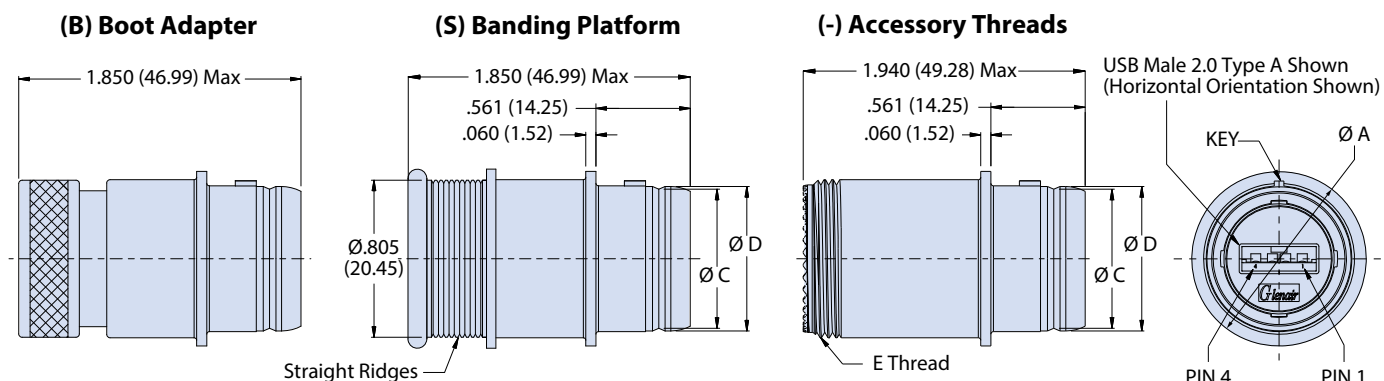
SHELL STYLE 00 FRONT PANEL MOUNT JAM NUT RECEPTACLE



SHELL STYLE 07 REAR PANEL MOUNT JAM NUT RECEPTACLE



SHELL STYLE 16 PLUG



Plug Dimensions				
Shell Size	Ø A	Ø C	Ø D	E Threads
14	.985 (25.02)	.768 (19.51)	.800 (20.32)	.9375-20 UNEF-2A



USB 2.0 TYPE A

Series 801, 804 and 805 Mighty Mouse



804-342 or 804-343 Receptacles with USB Female Interface to PC Tail or Solder Cup Termination

Series 804 Push/Pull

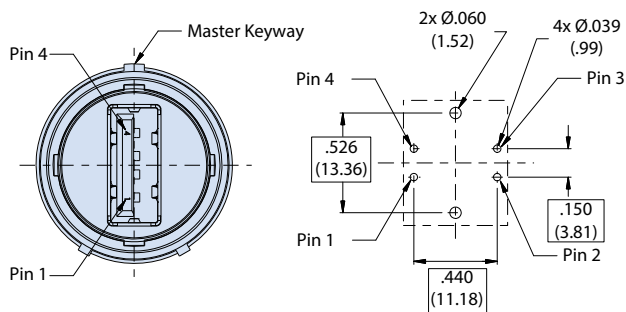
How To Order								
Sample Part Number	804-342	NF	07	-14	2	A	A	H
Series	804-342 = PC Tail 804-343 = Solder Cup							
Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel							
Shell Style ¹	07 = Rear Panel Mount Jam Nut Receptacle 00 = Front Panel Mount Jam Nut Receptacle							
Shell Size	14 = Shell Size 14							
USB Performance	2 = USB 2.0							
USB Type	A = Type A							
Alternate Key Positions ¹	A, B, C, D, E, F ; Omit for single keyway (non polarized)							
USB Orientation	H = Horizontal V = Vertical							

USB 2.0 Wiring				
Pin	Name	Cable Color (USB)	Description	Recommended Wire Size (AWG)
1	(V Bus)	Red	+5 V	22
2	(D-)	White	Data -	28
3	(D+)	Green	Data +	28
4	(GND)	Black	Ground	22

Dimensions						
Shell Size	Mounting Style	Ø A	B Threads	Ø D	K Threads	C Threads
14	FRONT MOUNT	-	-	1.390 (35.31)	1.0620-20 UN-2A	.9375-20 UNEF-2A
	REAR MOUNT	1.325 (33.66)	1.0000-28 UN-2A	-	-	.9375-20 UNEF-2A

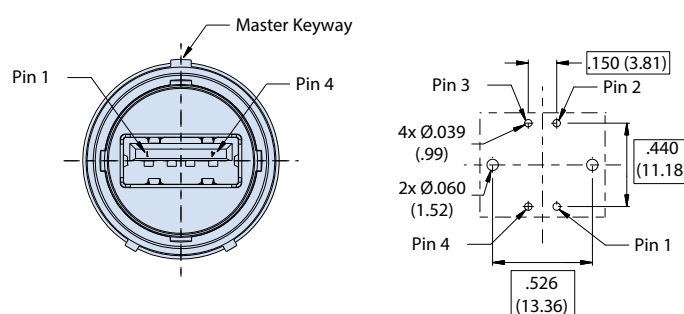
USB 2.0 RECEPTACLE ORIENTATION OPTIONS AND PCB FOOTPRINT

V (VERTICAL)



PCB Layout (Solder Side)

H (HORIZONTAL)



PCB Layout (Solder Side)



USB 2.0 TYPE A

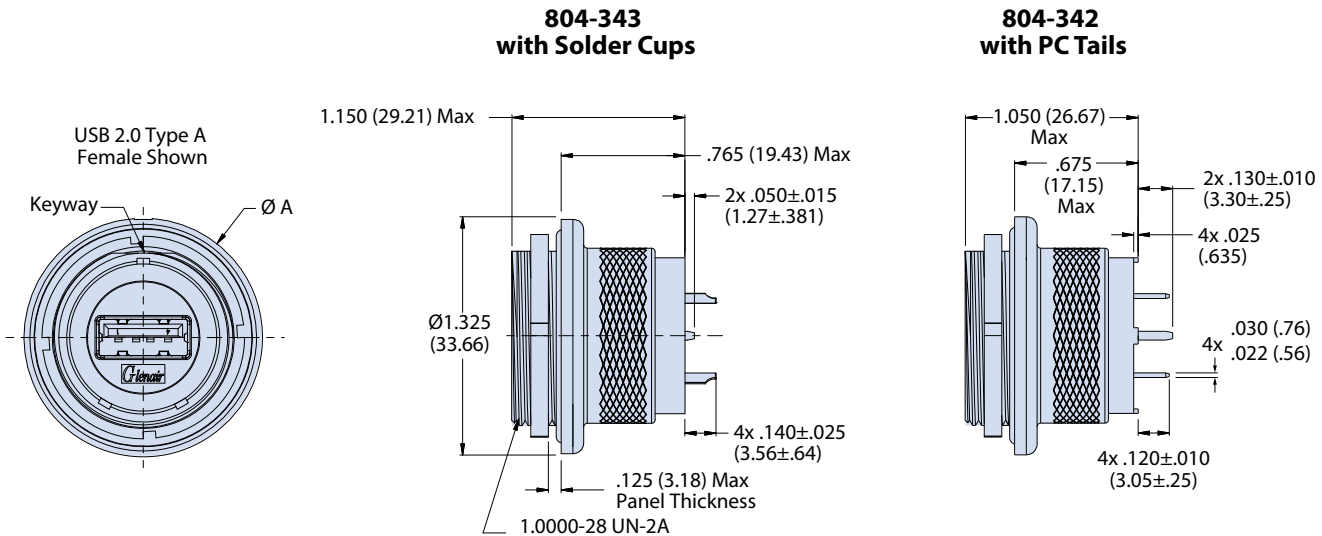
Series 801, 804 and 805 Mighty Mouse



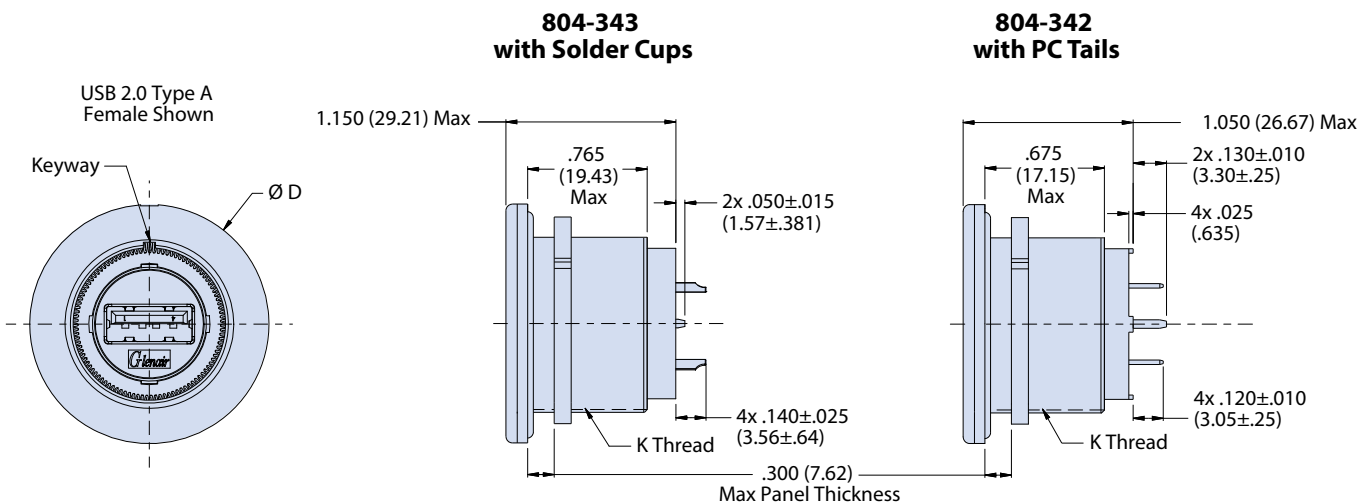
804-342 or 804-343 Receptacles with USB Female Interface to PC Tail or Solder Cup Termination

Series 804 Push/Pull

SHELL STYLE 07 JAM NUT RECEPTACLE FOR 804-342 PC TAIL AND 804-343 SOLDER CUP

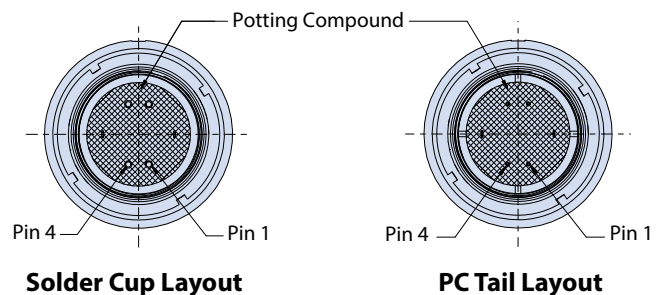


SHELL STYLE 00 JAM NUT RECEPTACLE FOR 804-342 PC TAIL AND 804-343 SOLDER CUP,



NOTES

- See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
- Meets IP67 sealing requirement in unmated condition
- Material/finish
 - Shell, jam nut: al alloy or cres
 - Seal/o-ring: fluorosilicone
 - Sealant RTV





USB 2.0 TYPE A

Series 801, 804 and 805 Mighty Mouse



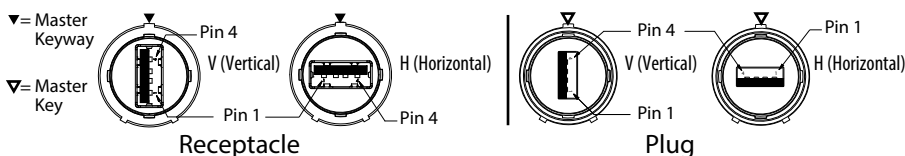
805-340 Coupler with USB Male-to-Female (Plug) or Female-to-Female (Receptacle)

Series 805 Triple Start

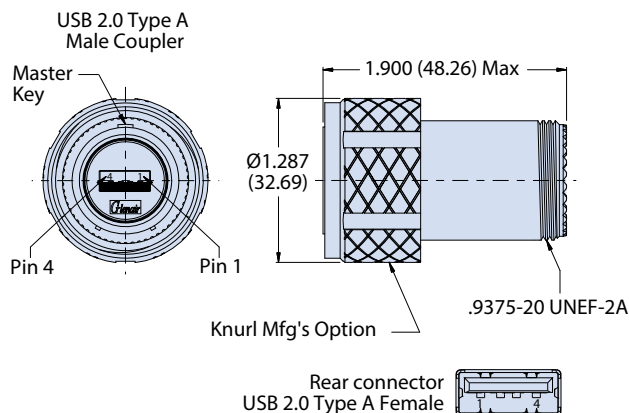
How To Order										
Sample Part Number		805-340	-	NF	07	-18	2	A	A	H
Series	805-340									
Rear Accessory Option	- = Accessory Thread and Teeth B = Integrated Boot Adaptor S = Integrated Banding Platform									
Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel									
Shell Style ¹	01 = In Line Receptacle 02 = Front or Rear Panel Mount Square Flange Receptacle 12 = Rear Panel Mount Square Flange Receptacle with "Non-Locking" Clinch Nuts 22 = Rear Panel Mount Square Flange Receptacle with "Locking" Clinch Nuts 07 = Rear Panel Mount Jam Nut Receptacle 16 = Plug									
Shell Size	18 = Shell Size 18									
USB Performance	2 = USB 2.0									
USB Type	A = Type A									
Alternate Key Positions ¹	A, B, C, D, E, F									
USB Orientation	H = Horizontal V = Vertical									

USB 2.0 Wiring				
Pin	Name	Cable Color (USB)	Desc.	Recommended Wire Size (AWG)
1	(V Bus)	Red	+5 V	22
2	(D-)	White	Data -	28
3	(D+)	Green	Data +	28
4	(GND)	Black	Ground	22

USB 2.0 ORIENTATION OPTIONS

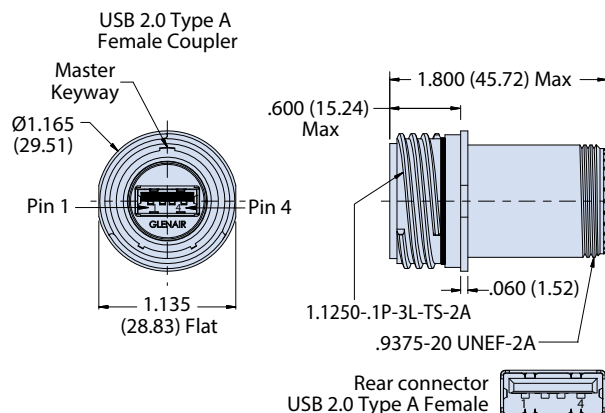


SHELL STYLE 16 PLUG



Accessory Thread Option

SHELL STYLE 01 IN-LINE RECEPTACLE



Accessory Thread Option



USB 2.0 TYPE A

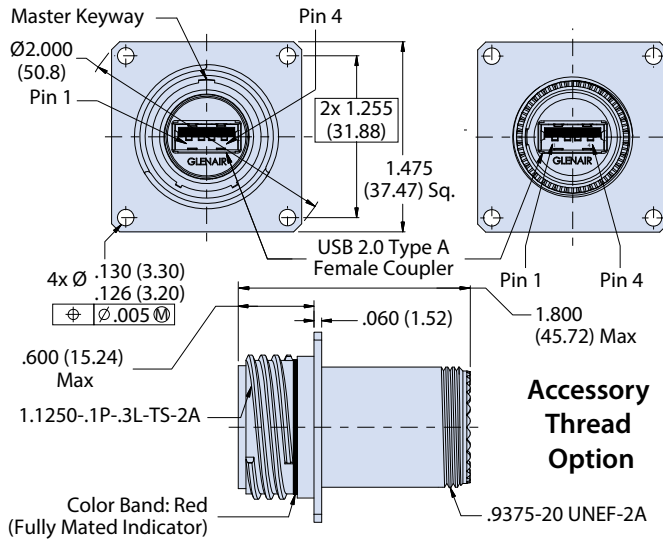
Series 801, 804 and 805 Mighty Mouse



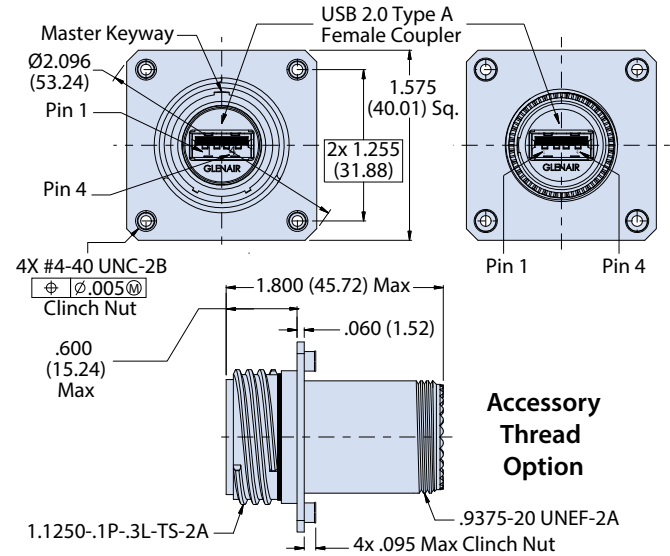
805-340 Coupler with USB Male-to-Female (Plug)
or Female-to-Female (Receptacle)

Series 805 Triple Start

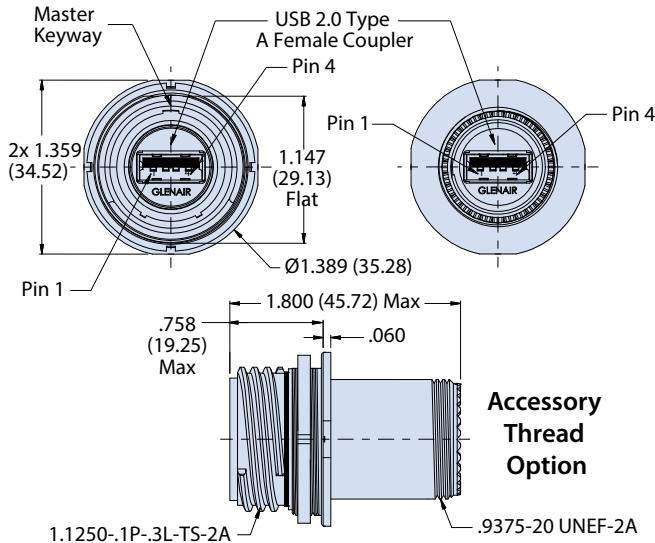
SHELL STYLE 02 FRONT OR REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE



SHELL STYLE 12 & 22 FRONT OR REAR PANEL MOUNT RECEPTACLE WITH CLINCH NUTS



SHELL STYLE 07 REAR PANEL MOUNT JAM NUT RECEPTACLE

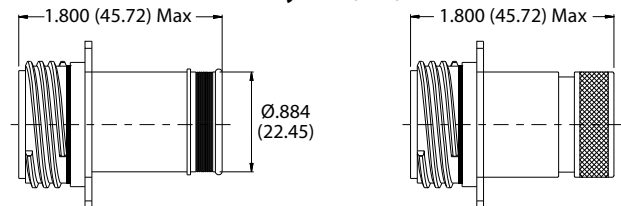


REAR ACCESSORY OPTIONS (AVAILABLE FOR IN-LINE ALSO)

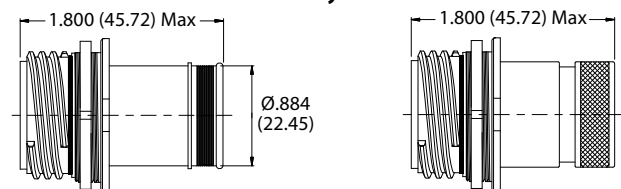
Banding Platform (S)

Boot Adapter (B)

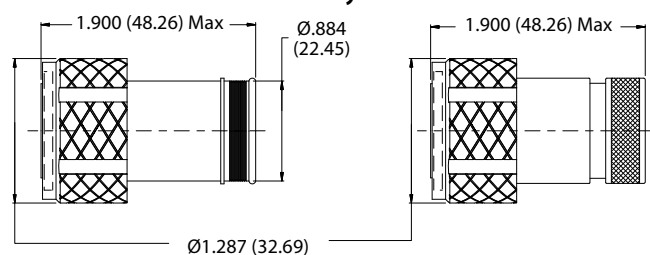
Shell Style 02, 12, 22



Shell Style 07



Shell Style 16



NOTES

1. See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
2. Meets IP67 sealing requirement in unmated condition
3. Plugs are male/female and receptacles are female/female



USB 2.0 TYPE A Series 801, 804 and 805 Mighty Mouse

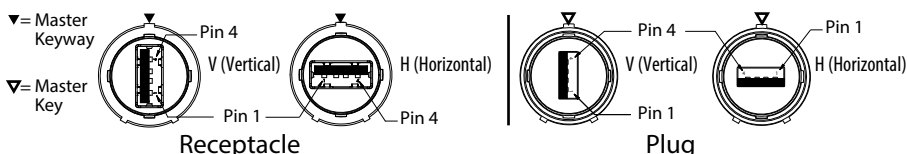


805-341 Connectors with USB Male (Plug) or Female (Receptacle) to Crimp Removable Contacts

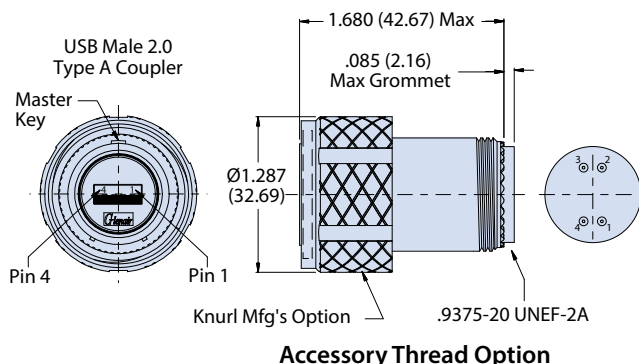
How To Order										
Sample Part Number		805-341	-	NF	07	-18	2	A	A	H
Series	805-341									
Rear Accessory Option	- = Accessory Thread and Teeth B = Integrated Boot Adaptor S = Integrated Banding Platform									
Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel									
Shell Style ¹	01 = In Line Receptacle 02 = Front or Rear Panel Mount Square Flange Receptacle 12 = Rear Panel Mount Square Flange Receptacle with "Non-Locking" Clinch Nuts 22 = Rear Panel Mount Square Flange Receptacle with "Locking" Clinch Nuts 07 = Rear Panel Mount Jam Nut Receptacle 16 = Plug									
Shell Size	18 = Shell Size 18									
USB Performance	2 = USB 2.0									
USB Type	A = Type A									
Alternate Key Positions ¹	A, B, C, D, E, F									
USB Orientation	H = Horizontal V = Vertical									

USB 2.0 Wiring				
Pin	Name	Cable Color (USB)	Desc.	Recommended Wire Size (AWG)
1	(V Bus)	Red	+5 V	22
2	(D-)	White	Data -	28
3	(D+)	Green	Data +	28
4	(GND)	Black	Ground	22

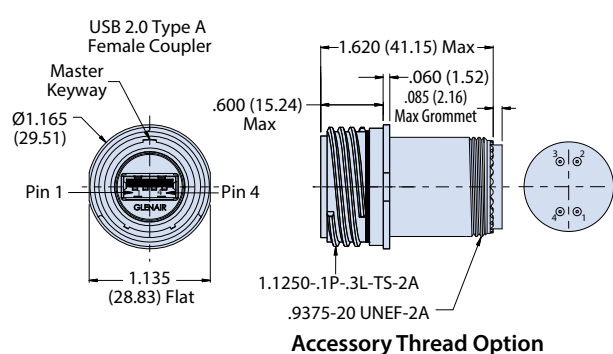
USB 2.0 ORIENTATION OPTIONS



SHELL STYLE 16 PLUG



SHELL STYLE 01 IN-LINE RECEPTACLE

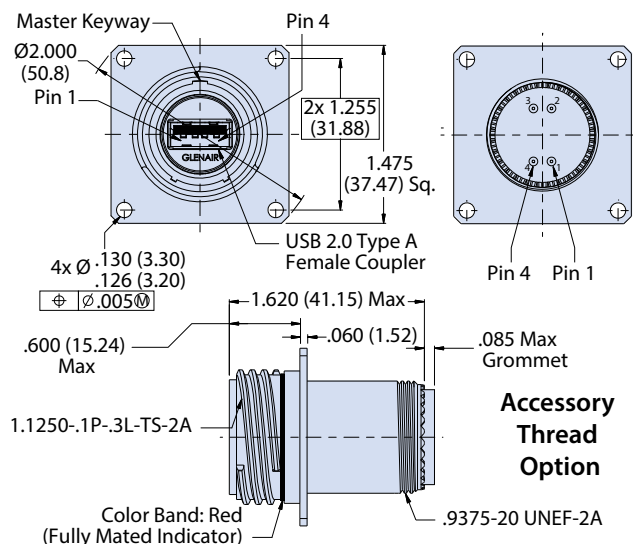




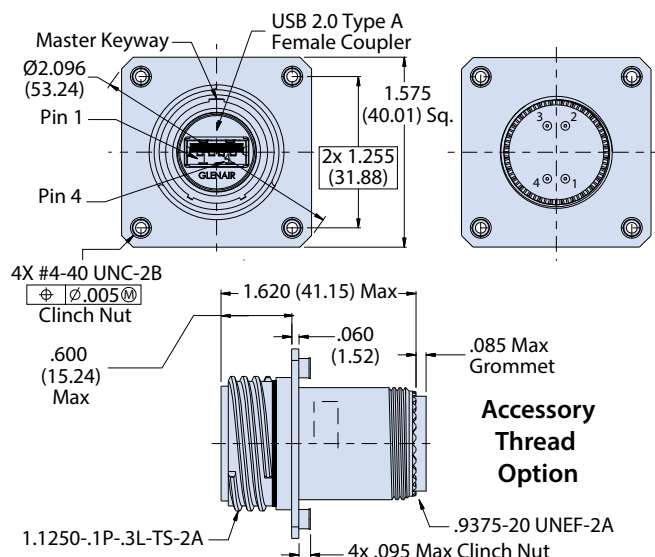
USB 2.0 TYPE A Series 801, 804 and 805 Mighty Mouse 805-341 Connectors with USB Male (Plug) or Female (Receptacle) to Crimp Removable Contacts



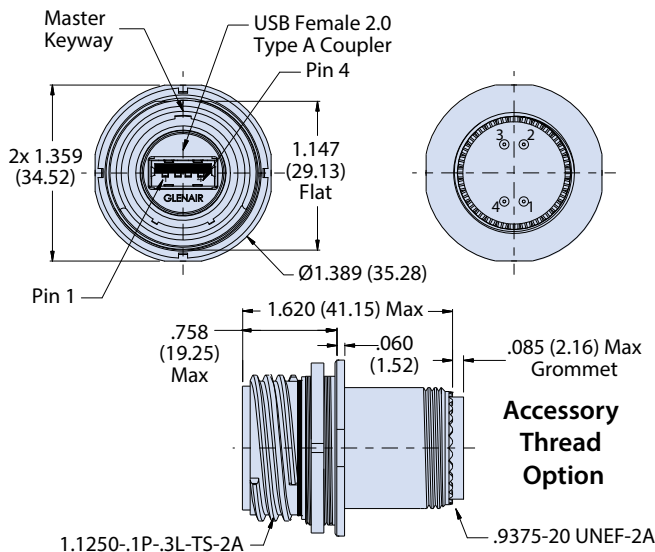
SHELL STYLE 02 FRONT OR REAR PANEL MOUNT RECEPTACLE



SHELL STYLE 12 & 22 REAR PANEL MOUNT RECEPTACLE WITH CLINCH NUTS



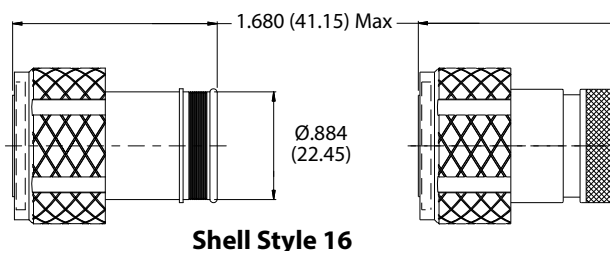
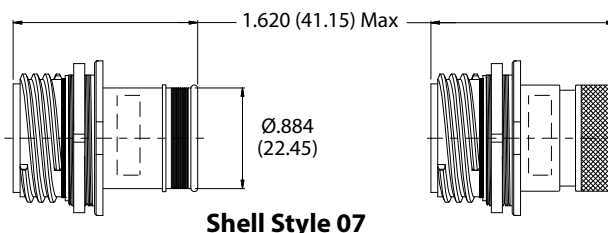
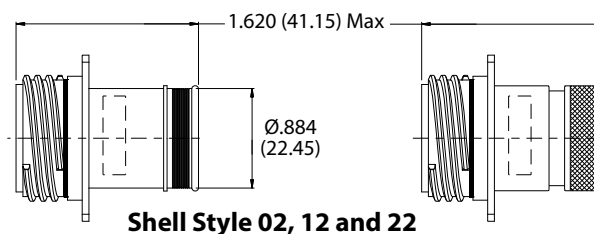
SHELL STYLE 07 REAR PANEL MOUNT JAM NUT RECEPTACLE



REAR ACCESSORY OPTIONS (AVAILABLE FOR IN-LINE ALSO)

Banding Platform (S)

Boot Adapter (B)



NOTES

1. See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
2. Meets IP67 sealing requirement in unmated condition
3. Supplied with size 23 crimp socket contacts (809-002 supplied loose)



USB 2.0 TYPE A Series 801, 804 and 805 Mighty Mouse 805-342 Receptacle with USB Female Interface to PC Tail Termination

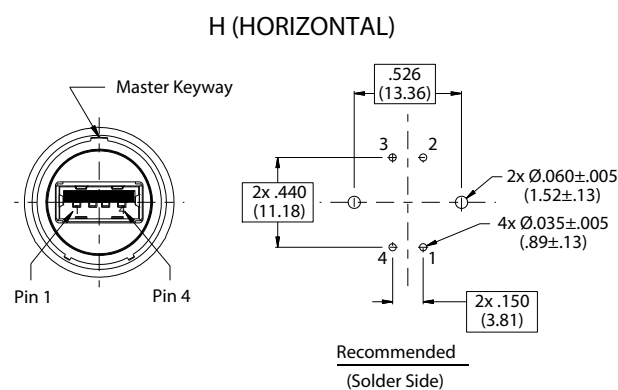
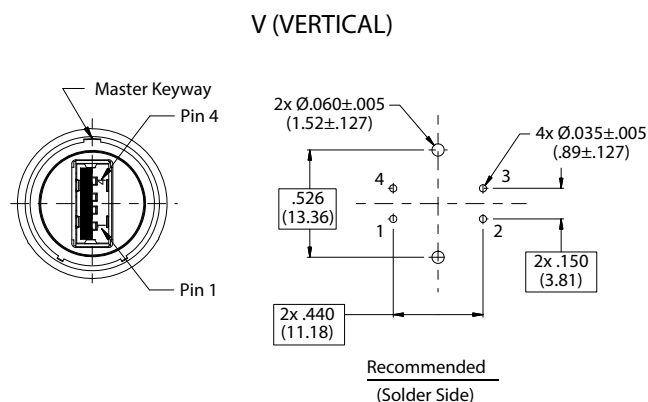


Series 805 Triple Start

How To Order								
Sample Part Number	805-342	NF	07	-18	2	A	A	H
Series	805-342 = PC Tail							
Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel							
Shell Style ¹	02 = Front or Rear Panel Mount Square Flange Receptacle 12 = Rear Panel Mount Square Flange Receptacle with "Non-Locking" Clinch Nuts 22 = Rear Panel Mount Square Flange Receptacle with "Locking" Clinch Nuts 07 = Rear Panel Mount Jam Nut Receptacle							
Shell Size	18 = Shell Size 18							
USB Performance	2 = USB 2.0							
USB Type	A = Type A							
Alternate Key Positions ¹	A, B, C, D, E, F							
USB Orientation	H = Horizontal V = Vertical							

USB 2.0 Wiring				
Pin	Name	Cable Color (USB)	Description	Recommended Wire Size (AWG)
1	(V Bus)	Red	+5 V	22
2	(D-)	White	Data -	28
3	(D+)	Green	Data +	28
4	(GND)	Black	Ground	22

USB 2.0 RECEPTACLE ORIENTATION OPTIONS AND PCB FOOTPRINT (PARTIAL VIEWS SHOWN)





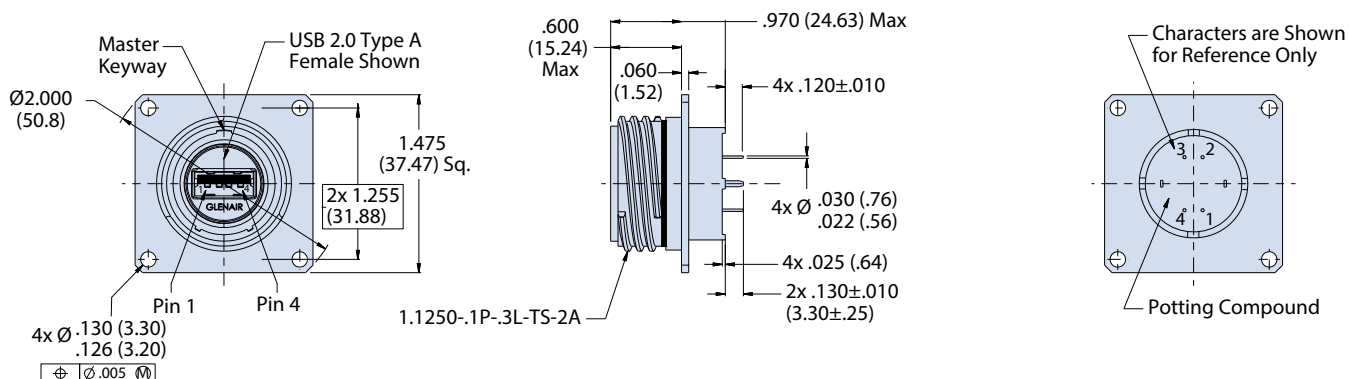
USB 2.0 TYPE A

Series 801, 804 and 805 Mighty Mouse

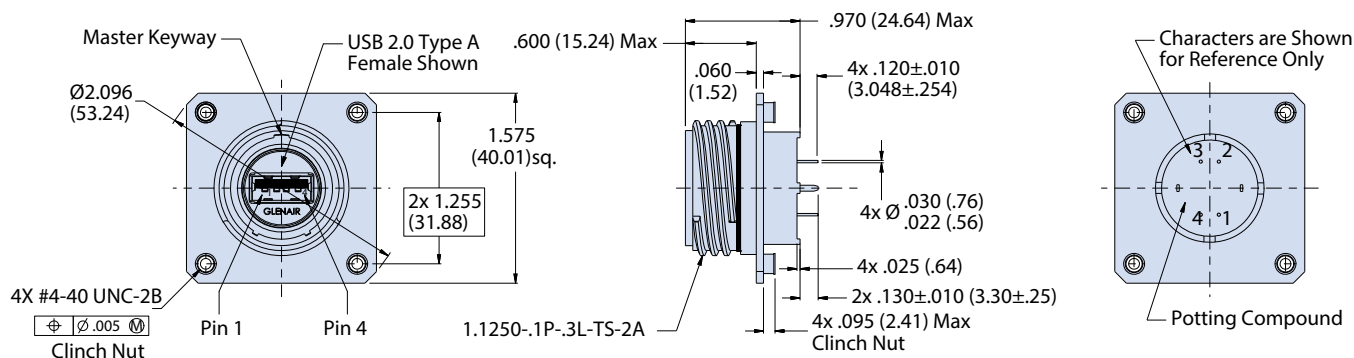


805-342 Receptacle with
USB Female Interface to PC Tail Termination

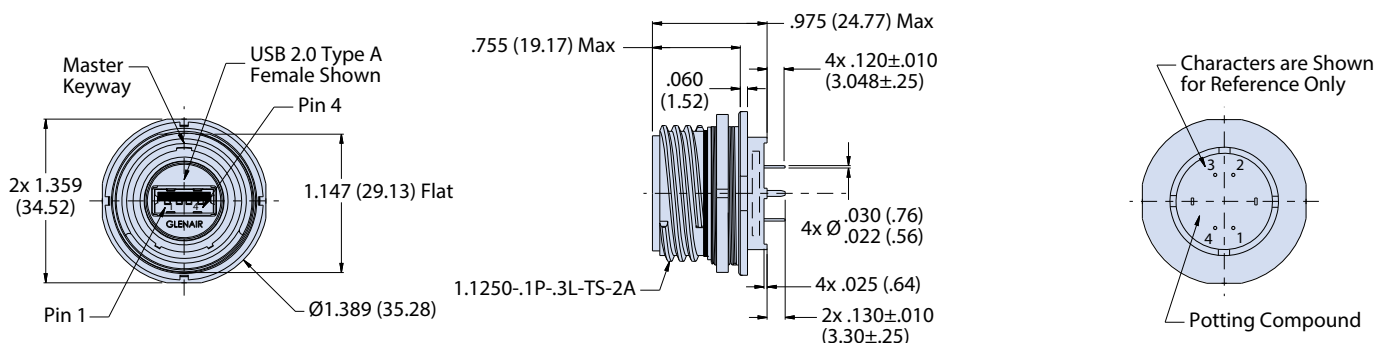
SHELL STYLE 02 FRONT OR REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE



SHELL STYLE 12 AND 22 REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE WITH CLINCH NUTS



SHELL STYLE 07 JAM NUT



NOTES

1. See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
2. Meets IP67 sealing requirement in unmated condition
3. Material/finish
 - Shell, jam nut: al alloy or cres
 - Seal/o-ring: fluorosilicone
 - Sealant: RTV



USB 2.0 TYPE A

Series 801, 804 and 805 Mighty Mouse



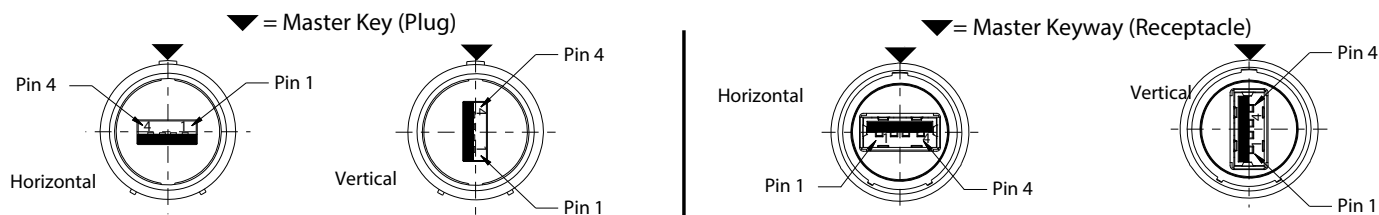
805-343 Receptacle with
USB Female Interface to Solder Cup Termination

Series 805 Triple Start

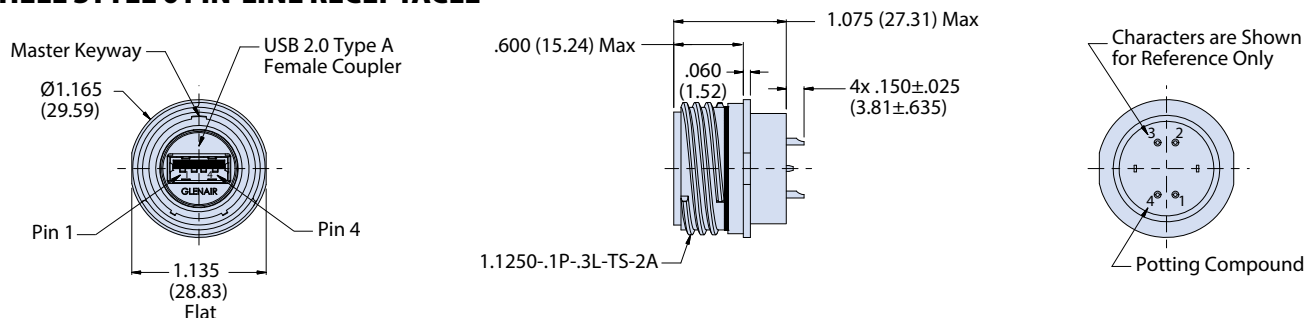
How To Order								
Sample Part Number	805-343	NF	07	-18	2	A	A	H
Series	805-343 = Solder Cup							
Material and Finish ¹	NF = Aluminum/Cadmium, Olive Drab M = Aluminum/Electroless Nickel MT = Aluminum/Nickel PTFE ZNU = Aluminum/Black Zinc Nickel							
Shell Style ¹	01 = In-line 02 = Front or Rear Panel Mount Square Flange Receptacle 12 = Rear Panel Mount Square Flange Receptacle with "Non-Locking" Clinch Nuts 22 = Rear Panel Mount Square Flange Receptacle with "Locking" Clinch Nuts 07 = Rear Panel Mount Jam Nut Receptacle							
Shell Size	18 = Shell Size 18							
USB Performance	2 = USB 2.0							
USB Type	A = Type A							
Alternate Key Positions ¹	A, B, C, D, E, F							
USB Orientation	H = Horizontal V = Vertical							

USB 2.0 Wiring				
Pin	Name	Cable Color (USB)	Description	Recommended Wire Size (AWG)
1	(V Bus)	Red	+5 V	22
2	(D-)	White	Data -	28
3	(D+)	Green	Data +	28
4	(GND)	Black	Ground	22

USB 2.0 ORIENTATION OPTIONS



SHELL STYLE 01 IN-LINE RECEPTACLE





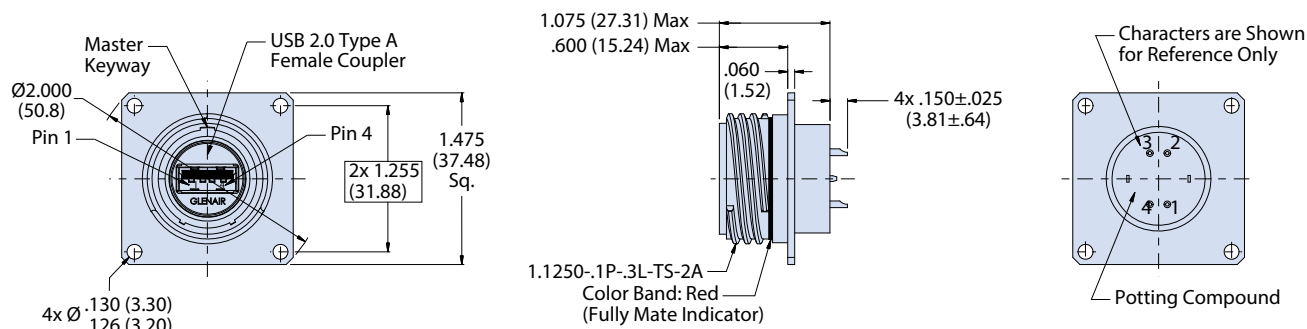
USB 2.0 TYPE A

Series 801, 804 and 805 Mighty Mouse

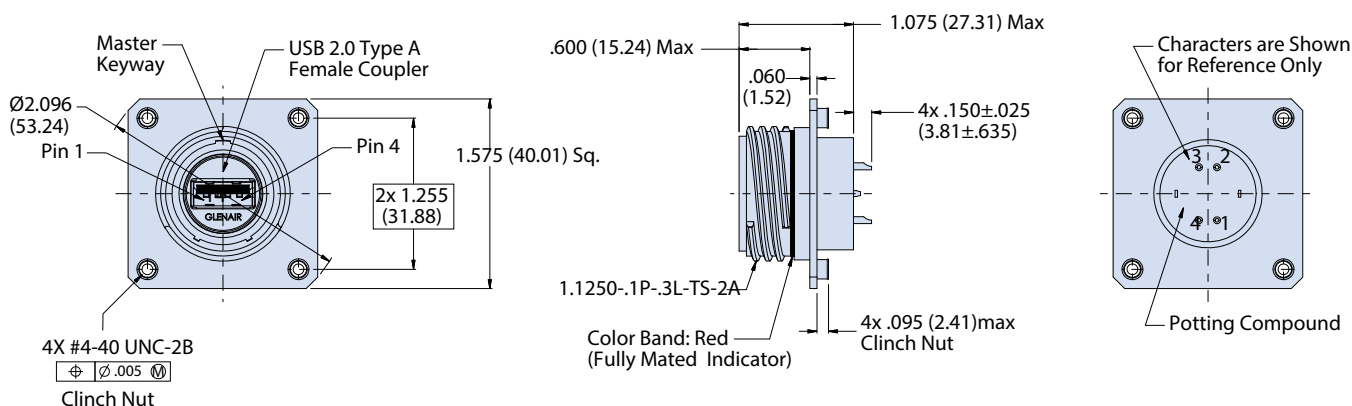


805-343 Receptacle with
USB Female Interface to Solder Cup Termination

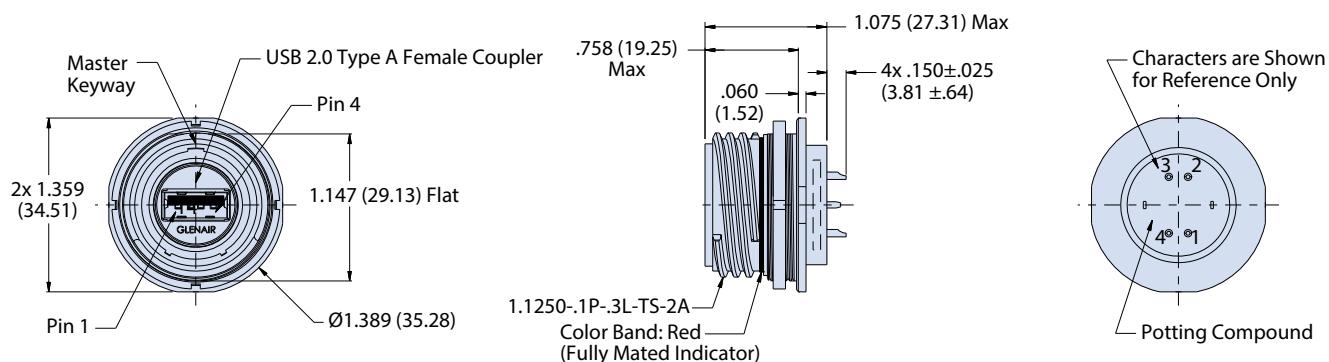
SHELL STYLE 02 FRONT OR REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE



SHELL STYLE 12 AND 22 REAR PANEL MOUNT RECEPTACLE WITH CLINCH NUTS



SHELL STYLE 07 REAR PANEL MOUNT JAM NUT RECEPTACLE



NOTES

1. See Section A for recommended panel cutout dimensions, additional finishes and alternate keyway positions.
2. Meets IP67 sealing requirement in unmated condition.
3. Max solder wire diameter of .025 inches
4. Material/finish
 - Shell, jam nut: al alloy or cres
 - Seal/o-ring: fluorosilicone
 - Sealant: RTV

TOOLS AND
ACCESSORIES

SUPERSEAL™

Tools and Accessories for the SuperSeal™
family of connectors



Nobody can grasp the ins-and-outs of interconnect tool design and manufacturing without a full understanding of cable harness assembly. At Glenair, we not only manufacture the connectors, backshells, cables and enclosures which go into creating interconnect cable harnesses, we run a top-flight cable assembly service of our own. We've drawn on this extensive experience to design and build a complete family of specialized backshell assembly tools for most Mil-Standard circular connectors, as well as connector wrenches, universal connector holding tools and braid termination tools for production use and field maintenance.



Glenair, Inc.
1211 Air Way
Glendale, CA 91201-2497
818-247-6000
sales@glenair.com
www.glenair.com



RJ45 AND USB 2.0 Contacts, Tools, and Accessories

Product Selection Guide



Contacts and Termination Tools

Tools, Contacts and Contact Installation Instructions
Band-Master ATS Manual Banding Tools

Page M-2
Page M-6



MIL-DTL-38999 Type Accessories

Backshells and Recommended Shrink Boots
Covers

Page M-8
Page M-11

Series ITS (5015 Intermountable) Accessories

Covers

Page M-14

For backshells and Recommended Shrink Boots
see ITS300H for RJ45 or ITS340H for USB Applications



Series IPT MIL-DTL-26482 Type Accessories

Covers

Page M-15

For backshells and Recommended Shrink Boots
see IPT300H for RJ45 or IPT340H for USB applications

MIL-DTL-28840 Type Accessories

Backshells
Covers

Page M-16
Page M-18



Series 80 Mighty Mouse Accessories

Backshells and Recommended Shrink Boots
Covers

Page M-19
Page M-22

RJ45 AND USB 2.0

Contacts, Tools, and Accessories

Pin and Socket Contacts for SuperSeal™ 38999 Type, Series ITS and Series IPT Connectors

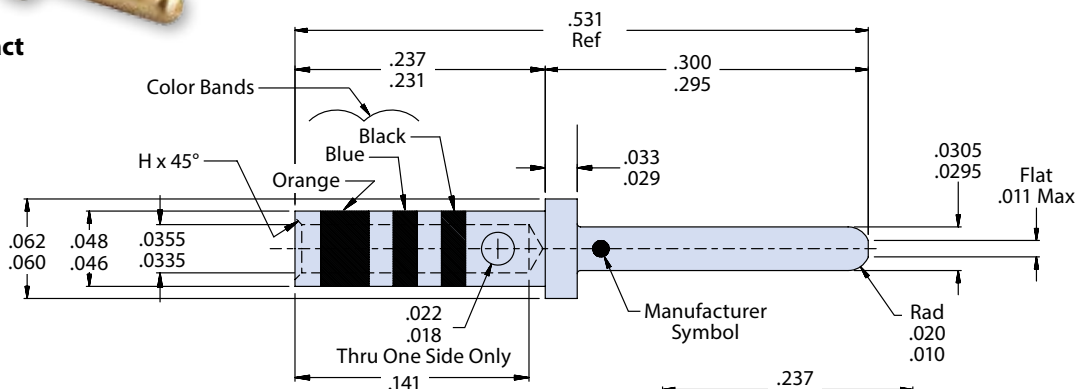


**SIZE #22 STANDARD DUTY ELECTRICAL PIN AND SOCKET CONTACTS FOR USE WITH SUPERSEAL™
38999 TYPE, ITS 301, ITS 345, IPT 301 AND IPT 345 SERIES CONNECTORS**

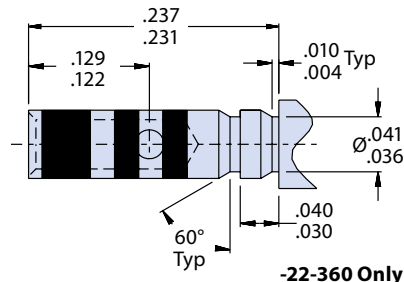
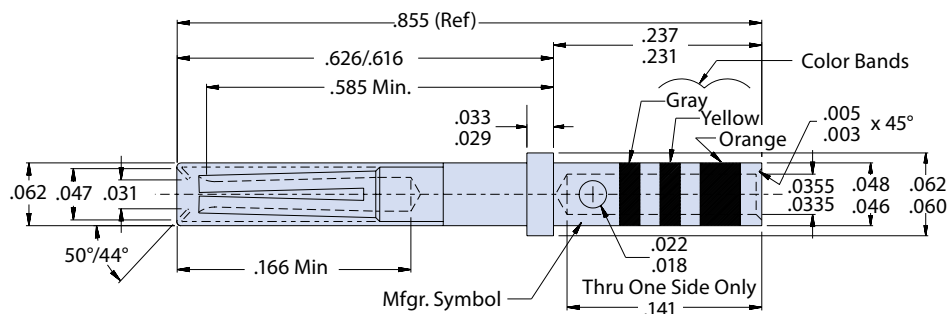


Pin Contact

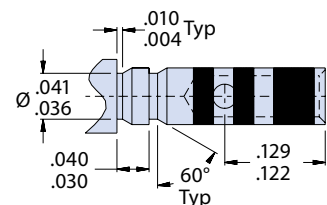
	Mating End Size	Wire Accomodation	Military Part Number	Glenair Part Number
Pin	22	22-28 AWG	M39029/58-360	850-002-22-360
Socket	22	22-28 AWG	M39029/56-348	850-001-22-348



Socket Contact



-22-360 Only



-22-348 Only

Termination Tools							
Size 22	Part Number	Military Number	AWG Handling	Crimp Tool	Positioner	Insertion Tool	Extraction Tool
Pin	850-002-22-360	M39029/58-360	22, 24, 26, 28	M22520/2-01 M22520/7-01	M22520/2-09 M22520/7-07	M81969/14-01 M81969/8-01	M81969/14-01 M81969/8-02
Socket	850-001-22-348	M39029/56-348	22, 24, 26, 28	M22520/2-01 M22520/7-01	M22520/2-07 M22520/7-05	M81969/14-01 M81969/8-01	M81969/14-01 M81969/8-02



RJ45 AND USB 2.0 Contacts, Tools, and Accessories

Size #22 Crimp Contact Instructions



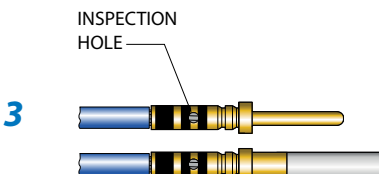
HOW TO TERMINATE, INSTALL AND REMOVE SIZE #22 CONTACTS

1 Set Up Series M22520 Crimp Tool. See pin and socket contact selection guide for correct tools based on contact part numbers and tool codes. Install proper positioner into crimp tool. The label on the positioner shows the proper tool setting for each wire size. Turn the adjustment wheel to the correct setting.



2 Strip Wire. Remove wire insulation, taking care to avoid nicking or cutting wire strands. Strip wire to length shown. Holding wire by insulation, twist strands together to form a neat bundle.

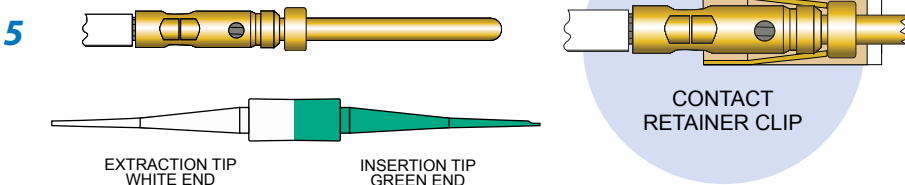
3 Insert wire into contact. The wire should be visible in the inspection hole.



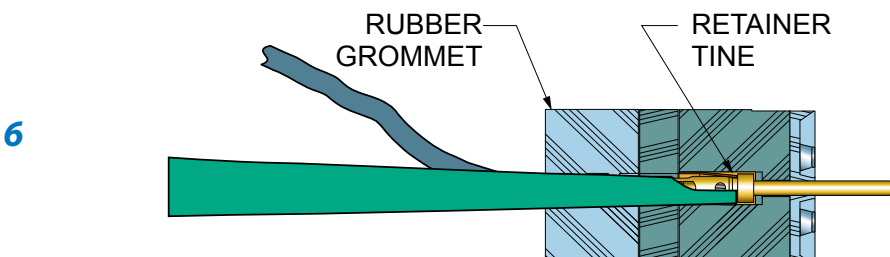
4 Insert wire and contact into crimp tool as shown. Make sure that the contact is fully inserted into the tool. Squeeze handle completely. The ratchet mechanism will not allow a partial crimp. Release handle and remove contact.



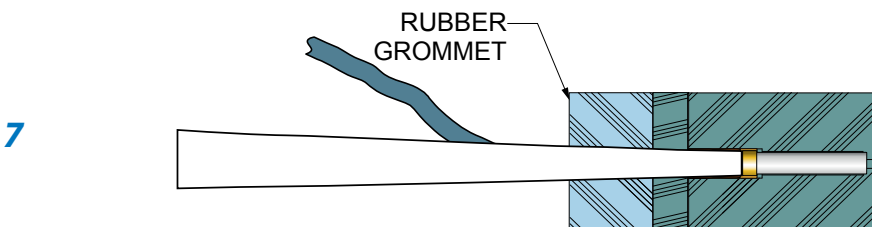
5 Inspect crimped contact. Wire should be fully inserted and the crimp should be uniform in appearance.



6 Install contact into connector. Slide green end of insertion/extraction tool over wire insulation and slide the tool forward until it bottoms against the contact shoulder. Insert tool/contact/wire into contact cavity, being careful to avoid damage by properly aligning the contact with the cavity. Push forward until contact retention clip snaps into position. Remove tool. Gently pull on wire to confirm contact retention. Fill unused contact cavities with uncrimped contacts followed by the proper MS27488 sealing plug.



7 Contact Extraction. Use the white end of appropriate insertion/extraction tool. First, push the wire into the groove of the extraction tool's tip. Slide the tip of the tool over the jacketed wire into the connector cavity. Push the tool until the tip bottoms in the connector. A straight push is best. Avoid wiggling or rocking the tip, as this may damage the cavity. Pinch the wire between your thumb and the white plastic grip and slide the tool and contact out of the connector.



Contact Size	Seal Plug
22, 22M, 22D	MS27488-22



RJ45 AND USB 2.0

Contacts, Tools, and Accessories



Size #23 Crimp Contact for Mighty Mouse Series 801, 804, and 805 Micro and Standard USB Connectors

SIZE #23 CRIMP CONTACTS FOR USE WITH 801-084, 801-085, 801-341, 804-084, 804-085, 804-341 805-084, 805-085 AND 805-341 SERIES 80 MIGHTY MOUSE CONNECTORS

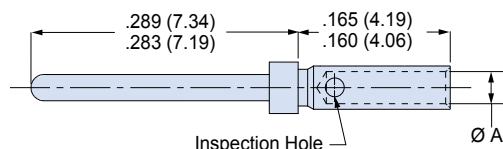


#23 Pin Contact

Standard size #23 contacts accept #22 to #28 AWG wire. Choose "small bore" versions for #26 to #30 AWG wire. For thermocouple applications, specify alumel or chromel contacts. Contacts are bulk packaged. Terminate with standard M22520 crimper with special positioner.

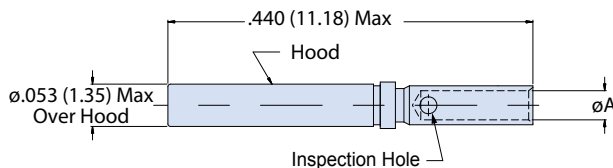
Contact Type	Wire Size	Material	Part Number	Ø A		Color Band	Tool Code
				In.	mm.		
Pin	#22 – #28	BeCu	809-001	.035 Max	.902	None	A, C
Socket	#22 – #28	BeCu	809-002	.035 Max	.902	None	A, C

PIN (809-001)



#23 Socket Contact

Socket (809-002)



Crimp Tensile Strength		
Values are in pounds and are minimums.		
Wire Gage	Silver or Tin Coated Copper Wire	Nickel Coated Copper Wire
#22	12	8
#24	8	6
#26	5	3
#28	3	2

Material and Finish

Beryllium copper alloy per ASTM B196 or B197, 50 microinches gold plated per ASTM B488 Type II Code C Class 1.25 over nickel plate per QQ-N-290 Class 2, 50-100 microinches.

Thermocouple contacts: alumel or chromel alloy, unplated, per ANSI 96.1

Specifications

Current Rating: 5 Amps maximum

Voltage Drop (at 5 Amps and 25° C): 70 millivolts maximum

Temperature Range: -65° to + 200° C

MINIATURE ADJUSTABLE CRIMP TOOL AND POSITIONER



Standard M22520/2-01 crimper for use with standard size #23 Mighty Mouse contacts. Performs precision eight-indent crimps for gas-tight wire terminations and excellent tensile strength. Adjustment wheel has 8 settings. Ratchet mechanism prevents improper crimps. Length is 6.75 inches, weight is approx. 10 oz. Bayonet-type positioner 809-005 hold contacts at correct height for crimping. Check calibration with M22520/3 gages.

Tool	Part Number	Military Part Number	Daniels Part Number	Tool Code
Crimp Tool	809-015	M22520/2-01	AFM8	A
Positioner	809-005	(none)	K1461	C



RJ45 AND USB 2.0

Contacts, Tools, and Accessories



Size #23 Crimp Contact Instructions for Mighty Mouse Series 801 Micro and Standard USB Connectors

HOW TO TERMINATE, INSTALL AND REMOVE SIZE #23 CONTACTS

1 Set Up Crimp Tool. Install proper positioner into crimp tool. The label on the positioner shows the proper tool setting for each wire size. Turn the adjustment wheel to the correct setting.

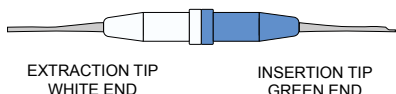
2 Strip Wire. Remove wire insulation, taking care to avoid nicking or cutting wire strands. Strip wire to length shown.

3 Insert wire into contact. The wire should be visible in the inspection hole.

4 Insert contact into crimp tool as shown. Make sure that the contact is fully inserted into the tool. Squeeze handle completely. The ratchet mechanism will not allow a partial crimp. Release handle and remove contact.

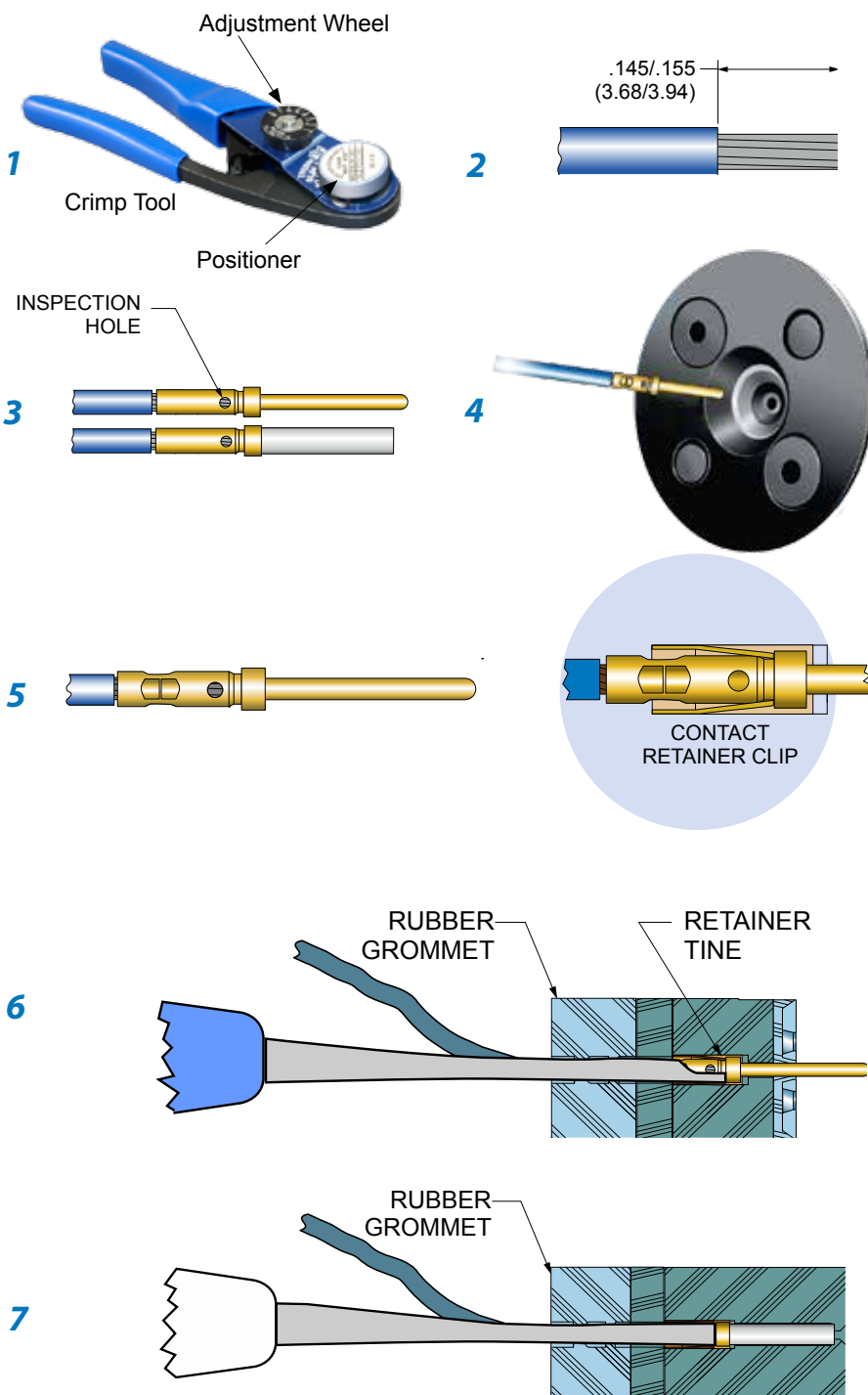
5 Inspect crimped contact. Wire should be fully inserted and the crimp should be uniform in appearance.

Insertion/Extraction Tool 809-088



6 Install contact into connector. Push the contact through the rear grommet until the contact locks into place. This can usually be done by hand without the need for a tool. If the wire gage is #26 or smaller, a tool is helpful. There are two techniques for installing contacts with a tool. One method is to push the contact in by hand, then use the tool to finish the insertion. The other method is to position the insertion tip against the contact shoulder, then insert the contact. Use insertion/extraction tool 809-088 to install contacts. Slide the wire into the groove on the blue end of the tool. Slide the tool tip up the contact until it touches the contact shoulder. **USE CARE TO AVOID DAMAGING THE CONNECTOR.**

7 Contact Extraction. Use tool 809-088. The white end is used for contact extraction. First, push the wire into the groove of the metal tip. Slide the tip of the tool into the connector. Push the tool into the connector cavity until the tip bottoms in the connector. Avoid wiggling or rocking the tip. This may damage the cavity. A straight push is best. Pinch the wire between your finger and the white plastic grip and slide the tool and contact out of the connector. **Wire insulation diameter greater than 0.045 inches (1.14mm) is too large to work properly with the extraction tool. connector damage is possible.**





RJ45 AND USB 2.0

Contacts, Tools, and Accessories



Band-Master ATS® 601-100 Commercial and 600-058 QPL Qualified, Standard Banding Tool

STANDARD BANDING TOOL



The 601-100 Band-Master ATS® Standard Tool with Counter for Standard Bands

Weighs 1.2 lbs., and is designed for .240" width clamping bands in a tension range from 100 to 180 lbs. Calibrate at 150 lbs. $\pm$ 5 lbs. for most shield terminations. Tool and band should never be lubricated.

The 600-058 QPL Qualified (M81306/1A) Standard Banding Tool without Counter



Weighs 1.1 and is designed for .240" width clamping bands in a tension range from 100 to 180 lbs. Calibrate at 150 lbs. $\pm$ 5 lbs. for most shield terminations. Tool and band should never be lubricated (not shown).

Color-coded tool handle:



= Standard; Black

Bands	Band-Master ATS® Standard Band Selection					
	Length		Part Number		Fits Diameter	
	In.	mm.	Flat	Pre-Coiled	In.	mm.
Short Standard	9.0	228.6	601-005	601-006	1.0	25.4
Medium Standard	14.25	361.95	601-040	601-041	1.8	45.7
Long Standard	18.0	457.2	601-049	601-050	2.5	63.5

Cable Pull Strength for BandMaster™ ATS Standard Bands							
Name	Material Type	Band Width		Band Thickness		Calibration Setting	Cable Pull Strength
		In	mm	In	mm		
Standard	300 SS	0.240	6.10	.020	.51	150 $\pm$ 5 lbs	per AS85049/128

Bands	QPL Qualified Standard Band Selection					
	Length		Mil Spec Part Number		Fits Diameter	
	in.	mm.	Flat	Pre-Coiled	in.	mm.
Standard Band	14.25	361.95	M85049/128-3	M85049/128-4	1.8	45.7

Cable Pull Strength for Standard QPL Qualified Bands							
Name	Material Type	Band Width		Band Thickness		Calibration Setting	Cable Pull Strength
		In	mm	In	mm		
Standard	300 SS	0.240	6.10	.020	.51	150 $\pm$ 5 lbs	per AS85049/128



RJ45 AND USB 2.0

Contacts, Tools, and Accessories



Band-Master ATS® 601-101 Commercial and 600-061 QPL Qualified, Micro Banding Tool

MICRO BANDING TOOL



The 601-101 Band-Master ATS® Micro Tool with Counter for Micro Bands

Weighs 1.3 lbs., and is designed for micro .120" width clamping bands in a tension range from 50 to 85 lbs. Calibrate at 80 lbs $\pm$ 3 lbs. for most shield terminations. Tool and band should never be lubricated.

The 600-061 QPL Qualified (M81306/1B) Micro Banding Tool without Counter



Weighs 1.1 and is designed for micro .120" width clamping bands in a tension range from 60 to 85 lbs. Calibrate at 80 lbs $\pm$ 5 lbs. for most shield terminations. Tool and band should never be lubricated (not shown).

Color-coded tool handle:



= Micro; Blue

Bands	Band-Master ATS® Micro Band Selection					
	Length		Part Number		Fits Diameter	
	in.	mm.	Flat	Pre-Coiled	in.	mm.
Short Micro	5.0	127.0	601-024	601-025	0.5	12.7
Medium Micro	8.125	206.38	601-060	601-061	.88	22.4
Long Micro	14.25	361.95	601-064	601-065	1.8	45.7

Cable Pull Strength for Band-Master ATS® Micro Bands							
Name	Material Type	Band Width		Band Thickness		Calibration Setting	Cable Pull Strength
		In	mm	In	mm		
Micro	300 SS	0.120	3.05	.015	.38	80 $\pm$ 5 lbs	per AS85049/128

Bands	QPL Qualified Micro Band Selection					
	Length		Part Number		Fits Diameter	
	in.	mm.	Flat	Pre-Coiled	in.	mm.
Standard Micro	8.125	206.38	M85049/128-7	M85049/128-8	.88	22.4

Cable Pull Strength for Micro QPL Qualified Bands							
Name	Material Type	Band Width		Band Thickness		Calibration Setting	Cable Pull Strength
		In	mm	In	mm		
Micro	300 SS	0.120	3.05	.015	.38	80 $\pm$ 5 lbs	per AS85049/128



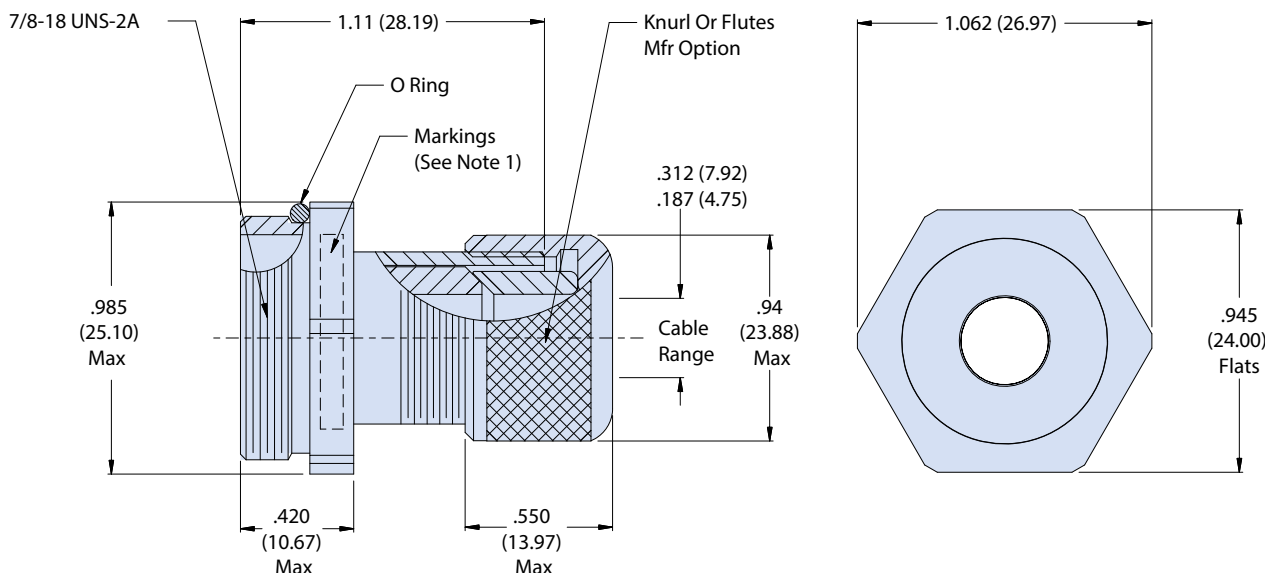
RJ45 AND USB 2.0 Contacts, Tools, and Accessories



637-204 Environmental Backshell with Sealing Gland for 253-100 RJ45 38999 Series III Type Connectors



How To Order		
Sample Part Number	637-204	M
Series	637-204	
Material and Finish	See Material and Finish Table	



Materials and Finishes	
NF	Aluminum/Cadmium, olive drab
ME	Aluminum/Electroless nickel
MT	Aluminum/ Nickel PTFE
ZR	Aluminum/ Black zinc-nickel

NOTES

- Glenair 600 series backshell assembly tools are recommended for assembly and installation
- O-ring and grommet: fluorosilicone



RJ45 AND USB 2.0

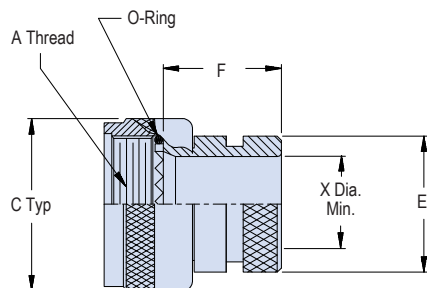
Contacts, Tools, and Accessories



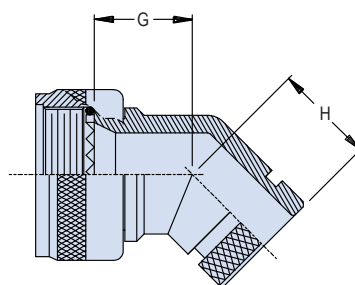
310-001 Shrink Boot Adapter with Rotatable Coupling for 38999 Series III Type Connectors



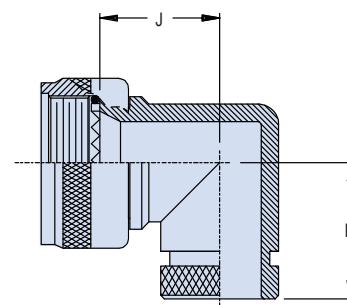
How To Order						
Sample Part Number	310	H	S	001	M	17
Series/Basic Part No.	310 - Shrink Boot Adapter					
Connector Designator	H = 38999					
Angular Function	A = 90° B = 45° S = Straight					
Basic Part No.	001					
Finish	See Material and Finish Table					
Shell Size	15, 17, 19					



Straight (S)



45° (B)



90° (A)

Dimensions									
Shell Size	A Thread	C Typ	E Max	F Max	G Max	H Max	J Max	K Max	X Dia. Min.
15	M22 X 1 -- 6H	1.07 (27.2)	.838 (21.3)	.940 (23.9)	.705 (17.9)	.890 (22.6)	.920 (23.4)	1.110 (28.2)	.565 (14.4)
17	M25 X 1 -- 6H	1.21 (30.7)	.963 (24.5)	.940 (23.9)	.732 (18.6)	.910 (23.1)	.980 (24.9)	1.170 (29.7)	.690 (17.5)
19	M28 X 1 -- 6H	1.36 (34.5)	1.042 (26.5)	.940 (23.9)	.748 (19.0)	.920 (23.4)	1.020 (25.9)	1.190 (30.2)	.769 (19.5)

Materials and Finishes		
NF	Aluminum	Cadmium, olive drab
ME		Electroless nickel
MT		Nickel PTFE
ZR		Black zinc-nickel

Recommended Shrink Boot*		
Shell Size	Shrink Boot with Low Temp Adhesive	Shrink Boot without Low Temp Adhesive
15	770-028S904 Lipless boot	770-028S904U Lipless boot
17	770-028S906	770-028S906U
19	770-028S906	770-028S906U

* Shrink Boot **MUST** be ordered separately.

Shrink boot material: compound 2013 low temperature polyolefin.



RJ45 AND USB 2.0

Contacts, Tools, and Accessories

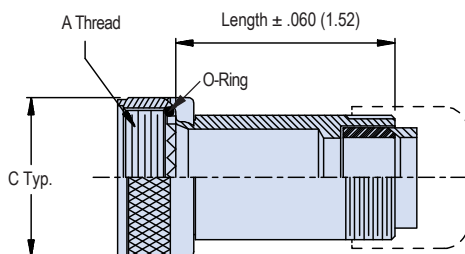


370-001 Cable Sealing Backshell with Rotatable Coupling for 38999 Series III Type Connectors

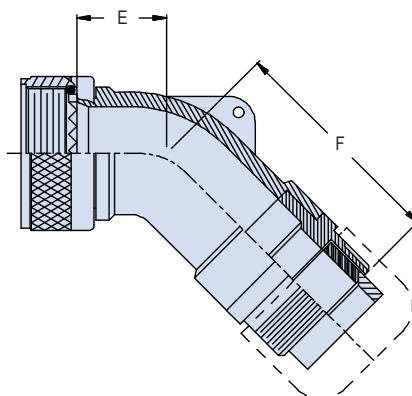
MIL-DTL-38999 Type

How To Order									
Sample Part Number	370	H	S	001	M	17	03	D	1.5
Series/Basic Part No.	370 - low Profile								
Connector Designator	H = 38999								
Angular Function	A = 90° B = 45° S = Straight								
Basic Part No.	001								
Finish	See Material and Finish Table								
Shell Size	15, 17, 19								
Dash No.	See Dash Number Table								
Strain Relief Style	D = Nut								
Length	1/2 inch increments (e.g. 6 = 3 inches); Straight only Minimum Order Length 1.5 Inch (See Note 1)								

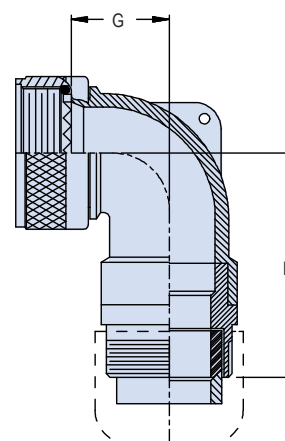
Straight (S)



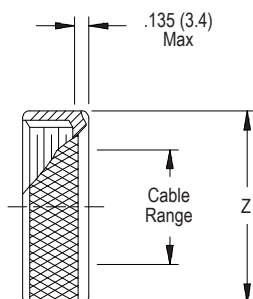
45° (B)



90° (A)



STRAIN RELIEF STYLE D



Dimensions						
Shell Size	A Thread	C Typ.	E Max	F Max	G Max	H Max
15	M22 X 1 -- 6H	1.07 (27.2)	.645 (16.4)	2.359 (59.9)	.700 (17.8)	2.369 (60.2)
17	M25 X 1 -- 6H	1.21 (30.7)	.738 (18.7)	2.469 (62.7)	.885 (22.5)	2.459 (62.5)
19	M28 X 1 -- 6H	1.36 (34.5)	.926 (23.5)	2.659 (67.5)	.975 (24.8)	2.629 (66.8)

Materials and Finishes ¹	
NF	Aluminum/Cadmium, olive drab
ME	Aluminum/Electroless nickel
MT	Aluminum/ Nickel PTFE
ZR	Aluminum/ Black zinc-nickel

Dash Number			
Dash No.	Z Max	Cable Range	
		Min	Max
03	.630 (16.0)	.156 (4.0)	.250 (6.4)
04	.755 (19.2)	.188 (4.8)	.312 (7.9)
06	.942 (23.9)	.281 (7.1)	.438 (11.1)



RJ45 AND USB 2.0

Contacts, Tools, and Accessories



660-024 and -023 Protective Covers, Attached to Panel for 38999 Type Receptacle Connectors

How To Order							
Sample Part Number	660	-024	M	17	H	5	-01
Series	660 = Series 66						
Cover Type	-024 = metal receptacle cover -023 = metal plug cover						
Material and Finish	See Material and Finish Table						
Shell Size	15, 17, 19						
Lanyard Type	D, S, F, G, H, K, R, T, U (See Lanyard Type Table)						
Lanyard Length	Length in inches						
Ring Style Dash No.	(See Table I and II) omit for "SK" slip knot attachment						

Table I: Dash No. for Small Ring			
Dash No.	P	Dash No.	P
01	.140 (3.6)	06	.125 (3.2)
02	.182 (4.6)	07	.218 (5.5)
03	.191 (4.9)	09	.156 (4.0)
04	.197 (5.0)	00	no eyelet
05	.167 (4.2)	WS	with strap

For attachment to panel

Table II: Dash No. for Solid Ring		
Dash No.	Shell Size	N
19	15	1.141 (29.0)
21	17	1.266 (32.2)
23	19	1.391 (35.3)

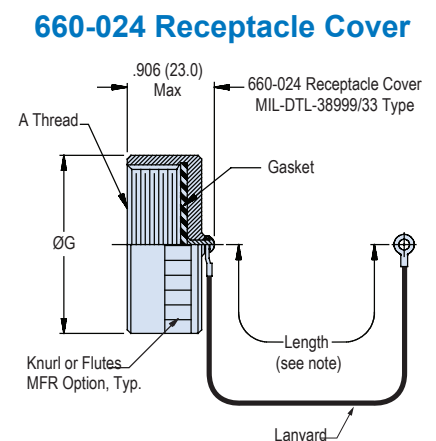
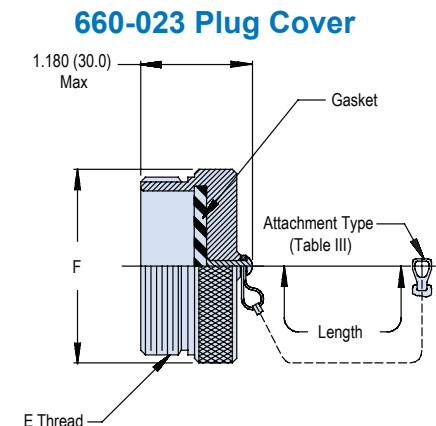
SOLID RING (with tab)

For attachment behind jam nut

Dimensions			
Shell Size	A Thread	F	ØG Max
15	0.1P-0.3L-TS		
17	1.0000	1.300 (33.0)	1.260 (32.0)
19	1.1875	1.457 (37.0)	1.457 (37.0)
	1.2500	1.575 (40.0)	1.535 (39.0)

Lanyard Type Attachment	
Sym	Attachment
E	Bead chain, cres, passivated, with terminal
E	Link chain, cres, passivated, with clevis terminal
F	Wire rope, nylon jacket w/terminal
G	Nylon rope
H	Wire rope, fluoropolymer jacket with terminal
K	Nylon rope (olive drab color)
N	Attachment omitted
R	Wire rope, pvc jacket w/terminal
T	Wire rope, no jacket, w/terminal
S	#8 Sash chain, cres, passivate
U	Wire rope, polyurethane jacket with terminal
SK	Nylon rope (black) with slip knot

Lanyard Types		
Bead Chain (Type D)	Sash Chain (Type S)	Rope (Types F, G, H, K, R, T, U)



NOTES

- Length tolerance for Sash Chain (S) is ± 1 link, for all other attachments $\pm .25$.
- For plug covers contact factory
- Material and Finish
 - Gasket: Silicone
 - Hardware, Rivet: Stainless Steel/Passivate

Materials and Finishes ¹	
NF	Aluminum/Cadmium, olive drab
ME	Aluminum/Electroless nickel
MT	Aluminum/ Nickel PTFE
ZR	Aluminum/ Black zinc-nickel
ZI	Stainless Steel/ Passivate



RJ45 AND USB 2.0

Contacts, Tools, and Accessories



667-407 Spring Loaded Flop-Lid Cover for 38999 Series III Type Wall Mount or Jam Nut Mount Connectors



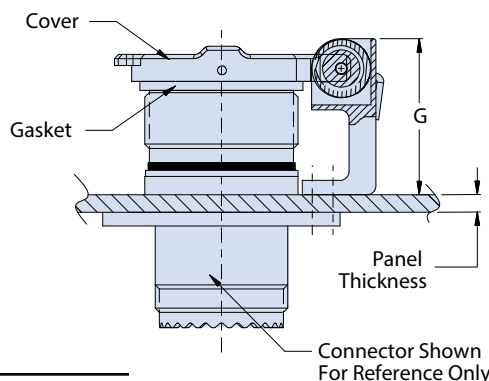
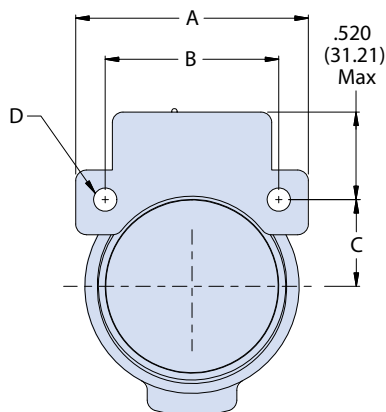
How To Order						
Sample Part Number	667-407	NF	17	T1	J	-59
Product Series-Basic No.	667-407 = Flop Cover					
Material and Finish	See Material and Finish Table					
Connector Shell Size	See Dimensions Table					
Panel Thickness	See Panel Thickness Table					
Mounting Type	J = Jam Nut Mount Receptacle W = Wall Mount Receptacle With Slotted Holes					
Conductive Silicone	59					

Dimensions																		
Shell Size	A Dim ±.012 (.30)		B Dim		C Dim		E Dim		F Dim		H Dim ±.004 (.10)		J Dim ±.002 (.05)		L Dim		K Dim	
	In	mm	In	mm	In	mm	In	mm	In	mm								
15	1.299	32.99	.969	24.61	.906	23.01	.453	11.51	.485	12.32	.173	4.39	.129	3.28	1.406	35.71	1.114	28.30
17	1.397	35.48	1.062	26.97	.970	24.64	.485	12.32	.531	13.49	.194	4.93	.129	3.28	4.563	115.90	1.177	29.90
19	1.517	38.53	1.156	29.36	1.062	26.97	.531	13.49	.578	14.68	.194	4.93	.129	3.28	1.681	42.70	1.271	32.28

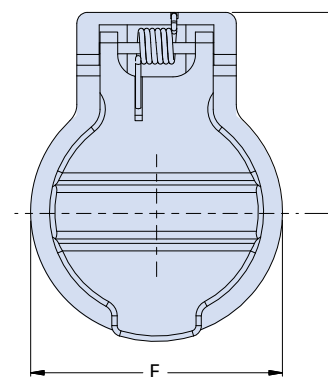
Material and Finish		
Symbol	Material	Finish Description
MT	Aluminum	Nickel-PTFE
ZR		Zinc ni, black (tri-valet cr)
M		electroless nickel
NF		cadmium plate/olive drab over electroless nickel
Z1	SST	passivate
XB	Composite	color black

Panel Thickness Table						
Dash No.	Panel Thickness		G Max			
	±.030		Jam Nut Style		Wall Style	
	In	mm	In	mm	In	mm
T1	.062	1.57	1.01	25.65	.939	23.85
T2	.125	3.18	.947	24.05	.876	22.25
T3	.188	4.78	.884	22.45	.813	20.65
T3	.250	6.35	.822	20.88	.751	19.08

WALL MOUNT RECEPTACLE FLOP LID



JAM NUT MOUNT RECEPTACLE FLOP LID



NOTES

- Cover will stay open at 100° from receptacle face



RJ45 AND USB 2.0

Contacts, Tools, and Accessories

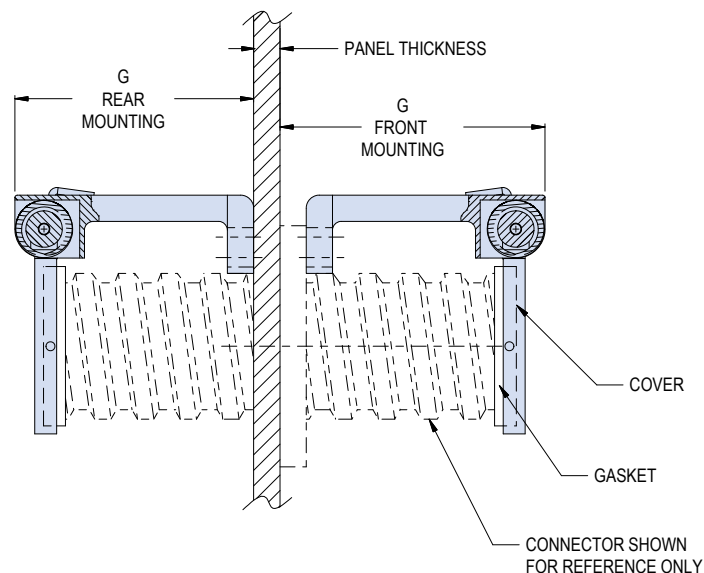
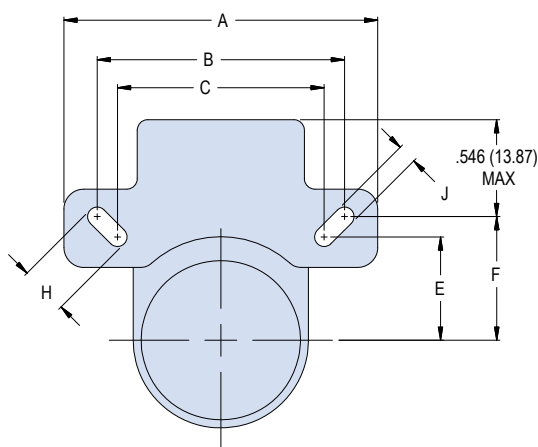


667-398 Spring Loaded Flop-Lid Cover for 38999 Series III Type Feed Thru Connector

How To Order				
Sample Part Number	667-398	NF	17	FO
Product Series-Basic No.	667-398 = Flop Cover			
Material and Finish	See Material and Finish Table			
Connector Shell Size	See Dimensions Table			
Cover Mounting	FO = Front Mounting R1, R2, R3, R4 = Rear Mounting See Table I for Panel Thickness Guidelines			

Shell Size	Dimensions													
	A Dim ±.012 (.31)		B Dim		C Dim		E Dim		F Dim		H Dim ±.008 (.20)		J Dim ±.008 (.20)	
	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm
17	1.542	39.17	1.062	26.97	.969	24.61	.485	12.32	.531	13.49	.194	4.93	.128	3.25
19	1.636	41.55	1.156	29.36	1.062	26.97	.531	13.49	.578	14.68	.194	4.93	.128	3.25

contact factory for other shell sizes



Material and Finish		
Symbol	Material	Finish Description
MT	Aluminum	Nickel-PTFE
ZR		Zinc ni, black (tri-valet cr)
M		electroless nickel
NF		cadmium plate/olive drab over electroless nickel
Z1	SST	passivate
XB	Composite	color black

Cover Mounting Dash Number		
Dash No.	Panel Thickness ±.030	G Max
FO	N/A	.845 (21.46)
R1	.062 (1.57)	.981 (24.91)
R2	.125 (3.18)	.918 (23.32)
R3	.188 (4.78)	.855 (21.72)
R4	.250 (6.35)	.793 (20.14)



RJ45 AND USB 2.0 Contacts, Tools, and Accessories

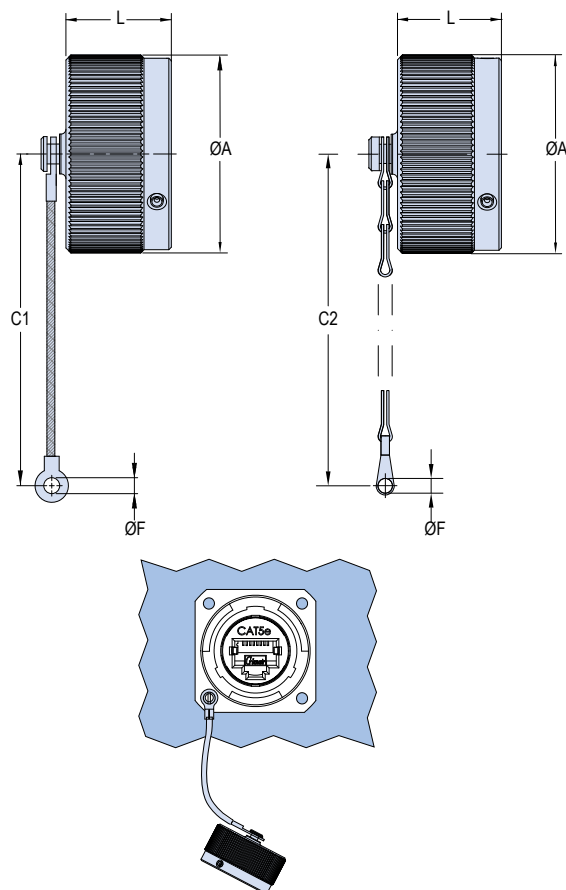


Series ITS Protective Covers for Wall Mount and Jam Nut Receptacle Connectors

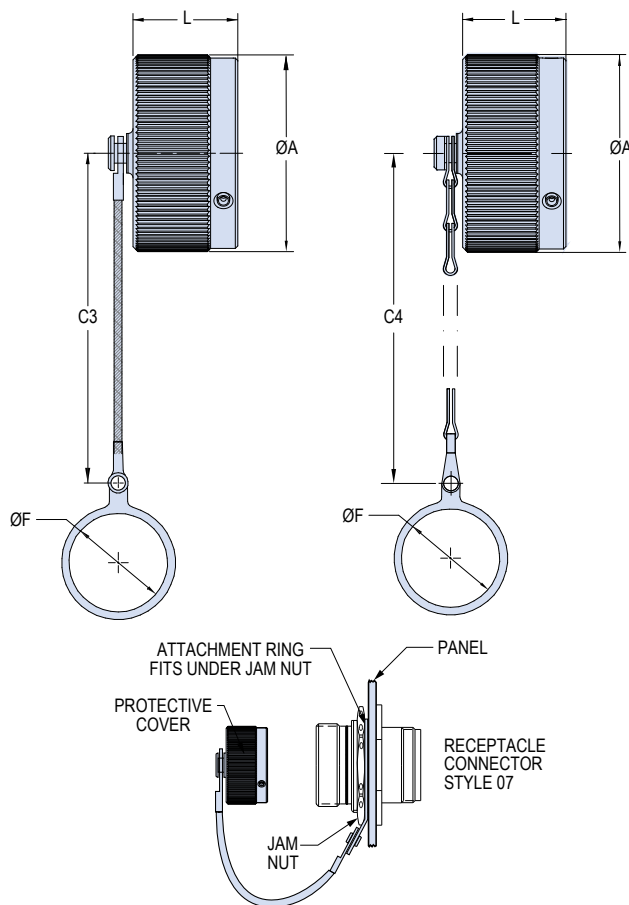
Series ITS (5015 Intermountable)

How To Order				
Sample Part Number	ITB02	TF	-17	F6
Series/Basic Part No.	ITB02 = Wall Mount Attachment Style		ITB07 = Jam Nut Attachment Style (See Note 1)	
Attachment Type	TF = Stainless Steel Wire Rope		T = Sash Chain	
Connector Size	17 = Shell Size 16		18 = Shell Size 18	
Material/Finish Options	F6 = Aluminum/Black Polymer Electrocoat F11 = Aluminum/Electroless Nickel		F7 = Aluminum/Conductive Black Zinc Nickel Omit for Aluminum/Cadmium, Olive Drab	

ITS (ITB02) WALL MOUNT RECEPTACLE COVER



ITS (ITB07) JAM NUT MOUNT RECEPTACLE COVER



Dimensions								
Shell Size Code	Connector Size	ØA ±.020 (±0.5)	Wall Mount		Jam Nut		ØF +.007 (+0.2) -.003 (-0.1)	L Max.
			Wire Rope C1 Min.	Sash Chain C2 Min.	Wire Rope C3 Min.	Sash Chain C4 Min.		
-17	16	1.26 (32.0)	7.60 (193)	4.84 (123)	8.19 (208)	5.39 (137)	.170 (4.3)	.83 (21.0)
-18	18	1.44 (36.5)	7.60 (193)	4.84 (123)	8.19 (208)	5.43 (138)	.17 (4.3)	.85 (21.7)

NOTES

1. For plug covers contact factory



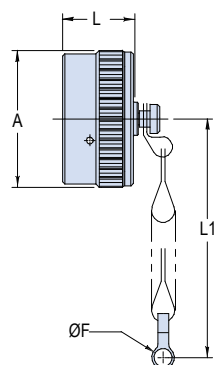
RJ45 AND USB 2.0 Contacts, Tools, and Accessories



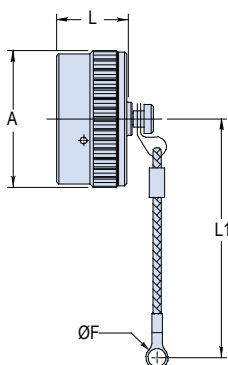
Series IPT Protective Covers for Wall Mount and Jam Nut Receptacle Connectors

How To Order				
Sample Part Number	IPT3181 -18 CF F6			
Series/Basic Part No.	IPT3181 = Receptacle Cover (See Note 1)			
Connector Size	16 = Shell Size 16 18 = Shell Size 18			
Lanyard Style	Wall Mount C = Sash Chain CF = Nylon Cord Z1C = Nylon Cord with Loose Terminal and Sleeve Jam Nut Mount N = Sash Chain NF = Nylon Cord			
Finish Options	F6 = Aluminum/Black Polymer Electrocoat F11 = Aluminum/Electroless Nickel F7 = Aluminum/Conductive Black Zinc Nickel Omit for Aluminum/Cadmium, Olive Drab			

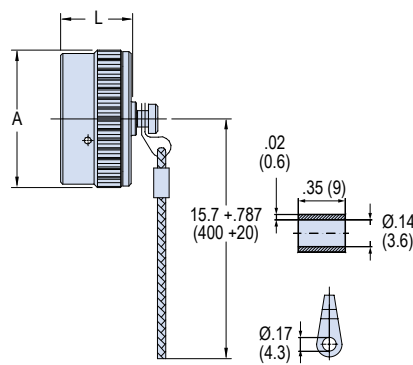
IPT WALL MOUNT RECEPTACLE COVER



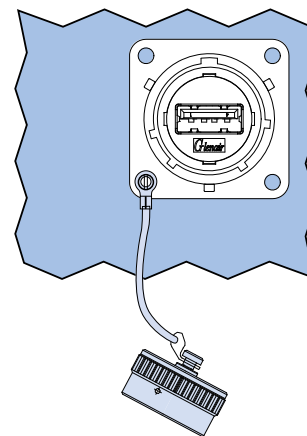
Example: IPT3181-18C
(Stainless Steel Sash Chain)



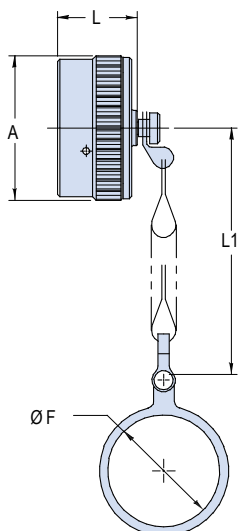
Example: IPT3181-18CF
(Nylon Cord)



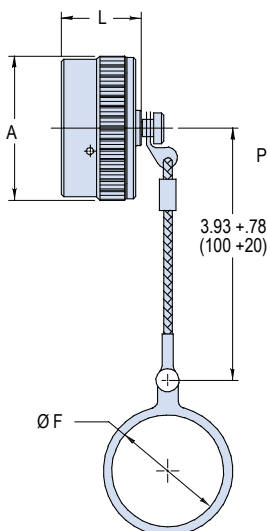
Example: IPT3181-18Z1C
(Nylon Cord with loose terminal and sleeve)



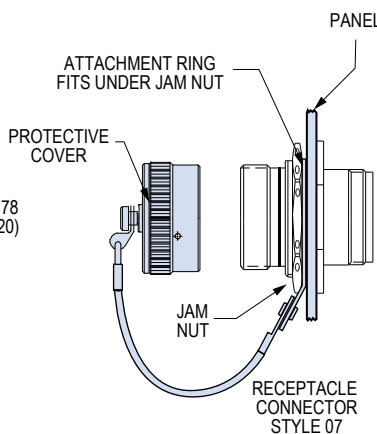
IPT JAM NUT MOUNT RECEPTACLE COVER



Example: IPT3181-18N
(Stainless Steel Sash Chain)



Example: IPT3181-18NF
(Nylon Cord)



Dimensions for Wall Mount and Jam Nut Covers				
Shell Size	A Max.	ØF +.874 (+0.2) -.004 (-0.1)	L +.197 (+0.5) -0 (-0)	L1 Min.
16	1.256 (31.90)	.169 (4.3)	.563 (14.30)	3.5 (88.9)
18	1.378 (35.00)	.169 (4.3)	.563 (14.30)	3.5 (88.9)

NOTES

- For plug covers contact factory



RJ45 AND USB 2.0

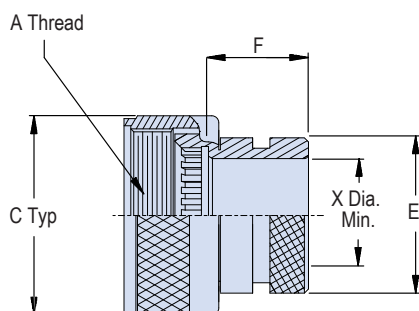
Contacts, Tools, and Accessories



310-001 Shrink Boot Adapter with Rotatable Coupling for 28840 Type Connectors



How To Order						
Sample Part Number	310	G	S	001	M	17
Series/Basic Part No.	310 - Shrink Boot Adapter					
Connector Designator	G = 28840					
Angular Function	S = Straight For 45° and 90° versions contact factory					
Basic Part No.	001					
Finish	See Material and Finish Table					
Shell Size	15, 17, 19					



Materials and Finishes	
NF	Aluminum/ Cadmium olive drab
M	Aluminum/ Electroless nickel
MT	Aluminum/ Nickel PTFE
ZR	Aluminum/ Zinc-nickel black
Z1	Stainless Steel/ Passivate

Dimensions					
Shell Size	A Thread	C Typ	E Max	F Max	X Dia. Min.
15	M22 X 1 -- 6H	1.07 (27.2)	.838 (21.3)	.940 (23.9)	.565 (14.4)
17	M25 X 1 -- 6H	1.21 (30.7)	.963 (24.5)	.940 (23.9)	.690 (17.5)
19	M28 X 1 -- 6H	1.36 (34.5)	1.042 (26.5)	.940 (23.9)	.769 (19.5)

Recommended Shrink Boot*		
Shell Size	Shrink Boot with Low Temp Adhesive	Shrink Boot without Low Temp Adhesive
15	770-028S904 Lipless boot	770-028S904U Lipless boot
17	770-028S906	770-028S906U
19	770-028S906	770-028S906U

* Shrink Boot **MUST** be ordered seperately.

Shrink boot material: compound 2013 low temperature polyolefin.



RJ45 AND USB 2.0

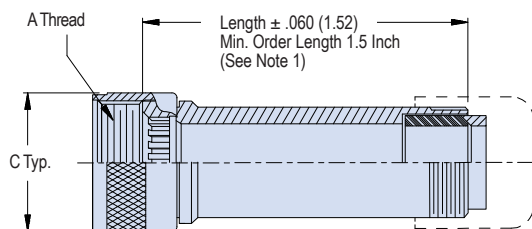
Contacts, Tools, and Accessories



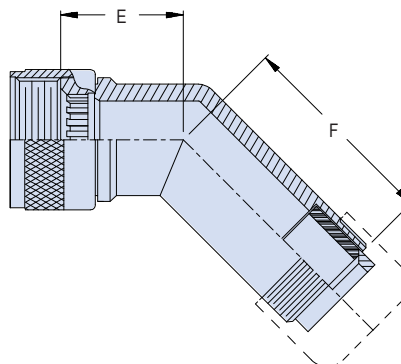
370-007 Cable Sealing Backshell with Rotatable Coupling for 28840 Type Connectors

How To Order									
Sample Part Number	370	G	S	007	M	17	03	D	1.5
Series/Basic Part No.	370 - low Profile								
Connector Designator	G = 28840								
Angular Function	J = 90° H = 45° S = Straight								
Basic Part No.	007								
Finish	See Material and Finish Table								
Shell Size	15, 17, 19								
Dash No.	See Dash Number Table								
Strain Relief Style	D = Nut								
Length	1/2 inch increments (e.g. 6 = 3 inches); Straight only								

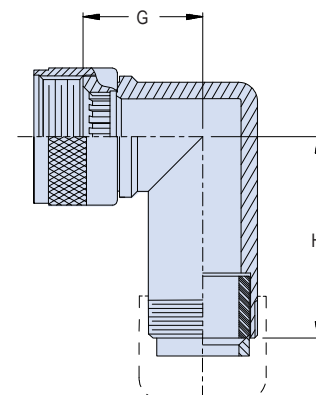
Straight (S)



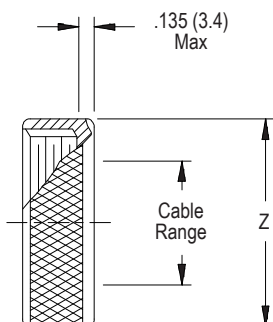
45° (H)



90° (J)



STRAIN RELIEF STYLE D



Dimensions						
Shell Size	A Thread	C Typ.	E Max	F Max	G Max	H Max
15	M22 X 1 -- 6H	1.07 (27.2)	.645 (16.4)	2.359 (59.9)	.700 (17.8)	2.369 (60.2)
17	M25 X 1 -- 6H	1.21 (30.7)	.738 (18.7)	2.469 (62.7)	.885 (22.5)	2.459 (62.5)
19	M28 X 1 -- 6H	1.36 (34.5)	.926 (23.5)	2.659 (67.5)	.975 (24.8)	2.629 (66.8)

Materials and Finishes	
NF	Aluminum/ Cadmium, olive drab
M	Aluminum/ Electroless nickel
MT	Aluminum/ Nickel PTFE
ZR	Aluminum/ Zinc-nickel black
ZI	Stainless Steel/ Passivate

Dash Number			
Dash No.	Z Max	Cable Range	
		Min.	Max.
03	.630 (16.0)	.250 (6.4)	.250 (6.4)
04	.755 (19.2)	.312 (7.9)	.312 (7.9)
06	.942 (23.9)	.438 (11.1)	.438 (11.1)

MIL-DTL-28840 Type

M



RJ45 AND USB 2.0

Contacts, Tools, and Accessories



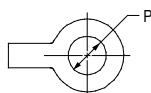
660-011 Series 66 Protective Covers for 28840 Type Receptacle Connectors

MIL-DTL-28840 Type

How To Order							
Sample Part Number	660	-011	M	17	H	5	-01
Series	660 = Series 66						
Cover Type	-011 = Metal Receptacle Cover (See Note 2)						
Material and Finish	See Material and Finish Table						
Shell Size	15, 17, 19						
Lanyard Type	D, S, F, G, H, R, T, U (See Lanyard Type Table)						
Lanyard Length	Length in inches; i.e. 3 = 3 inches						
Ring Style Dash No.	See Tables I, II or III for Ring Selection and Dash Number. Omit for "SK" slip knot attachment						

Table I: Dash No. for Small Ring

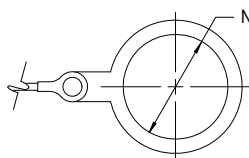
Dash No.	P Dia ± .010 (0.3)	Dash No.	P Dia ± .010 (0.3)
01	.140 (3.6)	06	.125 (3.2)
02	.182 (4.6)	07	.218 (5.5)
03	.191 (4.9)	09	.156 (4.0)
04	.197 (5.0)	00	no eyelet
05	.167 (4.2)		



For attachment to panel

Table II: Dash No. for Solid Ring (Type A)

Dash No.	Shell Size	N
208	15 (C)	1.203 (30.6)
109	17 (D)	1.266 (32.2)
111	19 (E)	1.521 (38.6)



SOLID RING
(with tab)

For attachment behind jam nut

Dimensions

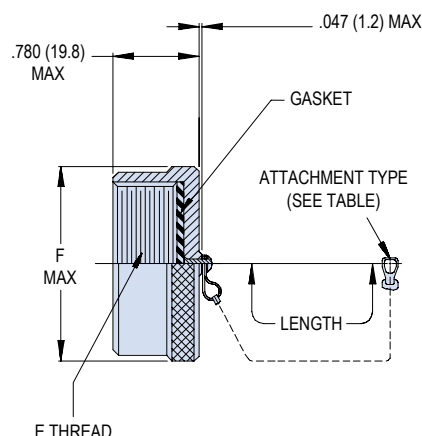
Shell Size	F Thread	F Max
15 (C)	1.062 - 0.1P-0.2L-DS	1.260 (32.0)
17 (D)	1.125 - 0.1P-0.2L-DS	1.457 (37.0)
19 (E)	1.312 - 0.1P-0.2L-DS	1.535 (39.0)

Lanyard Type

Sym	Attachment
D	Bead chain, cres passivated, w/ terminal
F	Wire rope, nylon jacket w/ terminal
G	Nylon rope
H	Wire rope, fluoropolymer jacket w/ terminal
N	Attachment omitted
R	Wire rope, PVC jacket w/terminal
T	Wire rope, no jacket, w/terminal
S	#8 Sash chain, cres, passivate
U	Wire rope, polyurethane jacket with terminal

Materials and Finishes²

NF	Aluminum/Cadmium, Olive Drab
M	Aluminum/Electroless Nickel
MT	Aluminum/Nickel PTFE
ZR	Aluminum/Zinc-Nickel Black
Z1	Stainless Steel/Passivate



NOTES

1. Length tolerance for Sash Chain (S) is ± 1 link, for all other attachments ± .25.
2. For plug covers contact factory
3. Material and Finish
 - Gasket: Silicone
 - Components, rivet: Stainless Steel/Passivate

Lanyard Types

Bead Chain (Type D)	Sash Chain (Type S)	Rope (Types F, G, H, R, T, U)



RJ45 AND USB 2.0

Contacts, Tools, and Accessories



440MS134 straight environmental, direct coupling adapter for Series 801, 804 and 805 Mighty Mouse

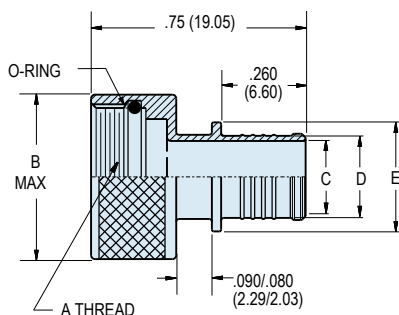


Band-Master ATS® Band
Microband 601-061
See Page M-7



Add a boot or overmold
for environmental protection
(Shown without boot)

These adapters are used with Band-Master ATS® micro band shield termination straps. Choose the smallest cable entry for your wire bundle.



STRAIGHT ENTRY
DIRECT COUPLING
440MS134

NOTES

1. For use with Micro USB Mighty Mouse Series 801 and 805
2. Material and Finish
 - Band: 300 Series SST
 - O-Ring: Silicone Elastomer

How To Order

Sample Part Number	440MS134	NF	08	04	B
Series (See Table I)	440MS134 = Straight Entry				
Shell Material and Finish	M = Aluminum/Electroless Nickel NF = Aluminum/Cadmium with Olive Drab ZN = Aluminum/Zinc-Nickel with Olive Drab Chromate ZNU = Aluminum/Zinc-Nickel with Black Chromate MT = Aluminum/Nickel-PTFE Z1 = Stainless Steel/Passivated				
Adapter Size Code	08, 10, 14, 16 See Adapter Size Code and Dimensions Table				
Cable Entry Size (See Table i)	04, 05, 06, 07, 08 See Table 1 for Dimensions				
Band Option	B = 601-060 flat band supplied K = 601-061 pre-coiled band supplied Omit = no band supplied				

Adapter Size Code and Dimensions

Adapter Size Code	Shell Size Reference		A Thread Class -2B	B Max.		Dash No.
	801/804	805		In.	mm.	
08 ¹	8	10	1/2-28 UNEF	.595	15.11	04 thru 08 See Table 1 for Dimensions
10	10	n/a	5/8-24 UNEF	.715	18.16	
14	14/15/16/17	18	15/16-20 UNEF	1.020	25.91	
16	19	21	1 1/16-18 UNEF	1.155	29.34	

Table I: Cable Entry, Band Platform Dimensions and Recommended Shrink Boot

Dash No.	Ø C		Ø D		Ø E		Straight Shrink Boot*
	In.	mm.	In.	mm.	In.	mm.	
	± .015	± 0.38	± .015	± 0.38	± .015	± 0.38	
04	.234	5.94	.273	6.93	.375	9.53	770-003S901W2
05	.272	6.91	.311	7.90	.413	10.49	770-003S902W2
06	.312	7.92	.351	8.92	.453	11.51	770-003S902W2
07	.375	9.53	.414	10.52	.516	13.11	770-003S903W2
08	.438	11.13	.477	12.12	.579	14.17	770-003S903W2

* Shrink Boot **MUST** be ordered separately.

Shrink boot material: compound 2013 low temperature polyolefin with W2 hot melt adhesive.

Series 80 Mighty Mouse

M



RJ45 AND USB 2.0

Contacts, Tools, and Accessories



440-135 EMI/RFI, Rotatable Coupling, Shrink Boot Band Adapter for Series 801, 804 and 805 Mighty Mouse



**Band-Master ATS® Band
Microband 601-061**
See Page M-7



**Add a boot or overmold
for environmental protection
(Shown without boot)**

These thread-on adapters are used with **Band-Master ATS® Micro Band** shield termination straps. Choose the smallest cable entry for your wire bundle. **Straight Entry** adapters are available in various lengths. **Straight, 45°** and **90°** adapters feature rotatable coupling nuts.



**Band-Master ATS®
Micro Band Tool
601-101**
See Page M-7

How To Order

Sample Part Number		440MS135	M	08	07	-7	K
Series (See Table I)	440MS135 = Straight Entry 440MK135 = 45° Entry 440ML135 = 90° Entry						
Shell Material and Finish	UCR = Aluminum/Zinc Cobalt Black M = Aluminum/Electroless Nickel NF = Aluminum/Cadmium with Olive Drab ZNU = Aluminum/Zinc-Nickel with Black Chromate MT = Aluminum/Nickel-PTFE Z1 = Stainless Steel/Passivated						
Shell Size Code	08, 14, 16 (See Dimensions Table)						
Dash No.	04, 05, 06, 07 (See Dash No. Table)						
Length	Applies to symbol "S", straight only Length in .125 (3.18mm) inch increments (i.e. 7 = .875 inches)						
Band Option	K = Pre-coiled Band Supplied (601-061) B= Band Supplied (601-060) Omit for no band supplied						

Table I: Cover Style

440MS135 Straight Entry	440MK135 45° Entry	440ML135 90° Entry

NOTES

- Standard Minimum Length is .75.
applies to symbol "S" straight only.
- Material and Finish
 - Band: 300 series SST
 - O-ring: silicone elastomer



RJ45 AND USB 2.0

Contacts, Tools, and Accessories



440-135 EMI/RFI, Rotatable Coupling, Shrink Boot Band Adapter for Series 801, 804 and 805 Mighty Mouse

Series 80 Mighty Mouse

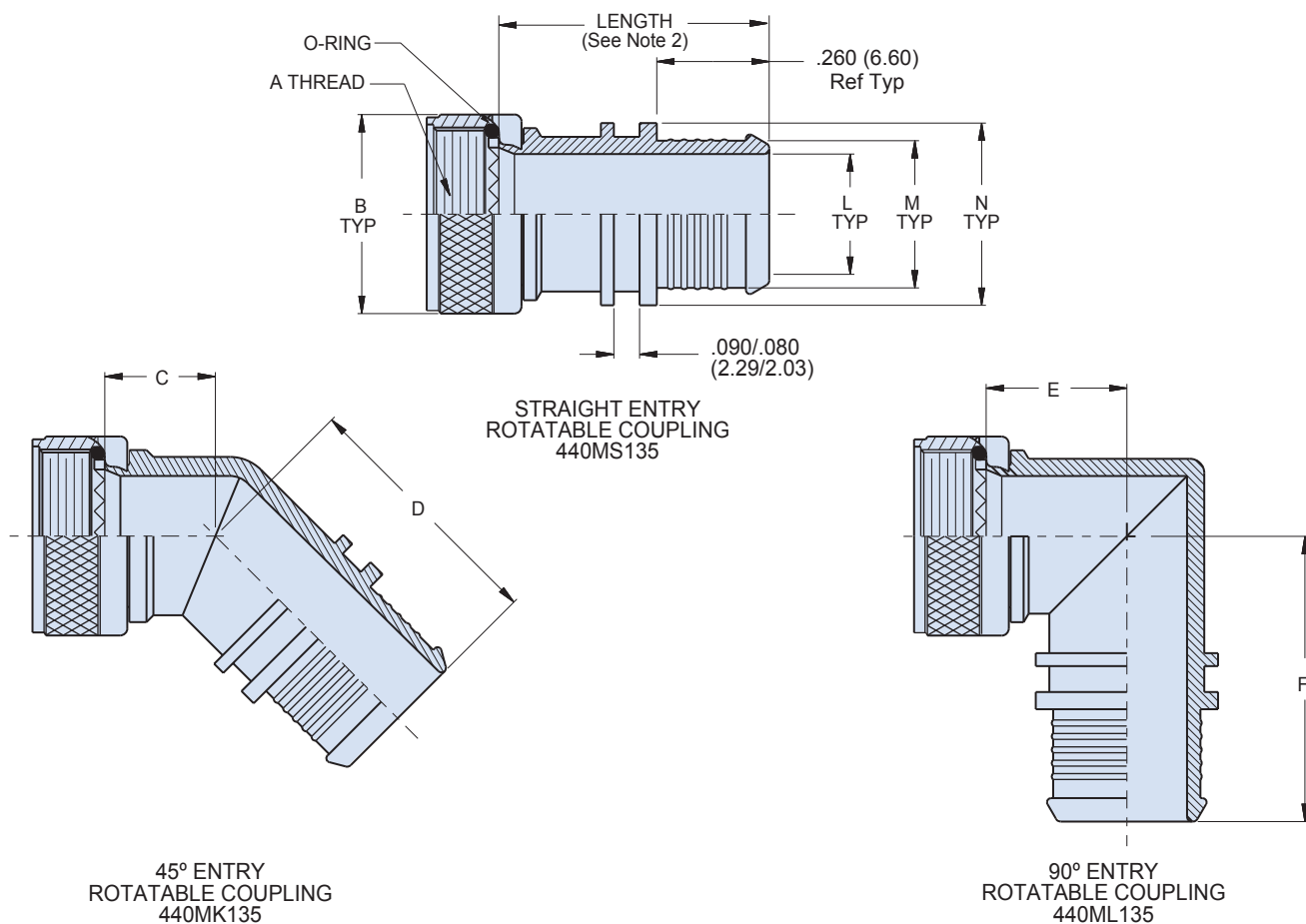
Dimensions														
Shell Size Code	Shell Size Reference		A Thread Class -2B	B Max		C Max.		D Max.		E Max.		F Max.		Max Dash No.
	801 & 804	805		In	mm	In	mm	In	mm	In	mm	In	mm	
08	8	10	1/2-28 UNEF	.70	17.78	.58	14.73	.70	17.78	.74	18.80	.86	21.84	07 See Table I
14	14,15,16,17	18,19	15/16-20 UNEF	1.137	28.88	.69	17.53	.80	20.32	.95	24.13	1.09	27.69	
16	19	21	1 1/16-18 UNEF	1.230	31.24	.71	18.03	.82	20.83	.98	24.89	1.13	28.70	

Table I: Cable Entry and Band Platform Dimensions							
Dash No.	L Dia		M Dia		N Dia		Straight Shrink Boot*
	in	mm	in	mm	in	mm	
04	.250	6.35	.289	7.34	.391	9.93	809S060-1L
05	.312	7.92	.351	8.92	.453	11.51	809S060-2L
06	.375	9.53	.414	10.52	.516	13.11	809S060-3L
07	.438	11.13	.477	12.12	.579	14.71	809S060-3L

* Shrink Boot **MUST** be ordered separately.

Shrink boot material:

compound 2013 low temperature polyolefin with W2 hot melt adhesive.



M



RJ45 AND USB 2.0

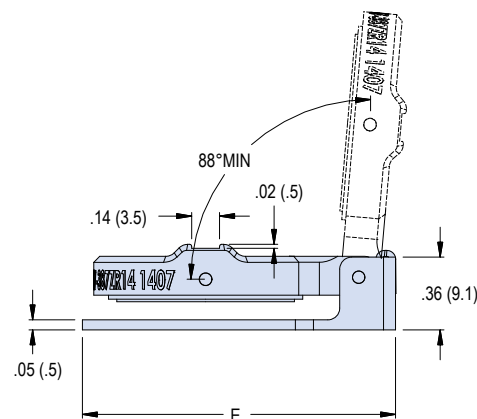
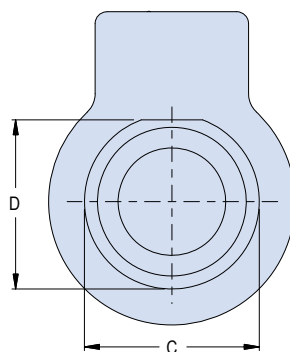
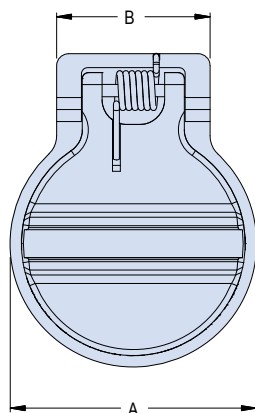
Contacts, Tools, and Accessories



667-387 Spring Loaded Flop-Lid Cover for Series 804 Rear Panel Mount Jam Nut Connector

How To Order				
Sample Part Number	667-387	NF	15	F0
Product Series-Basic No.	667-387 = Mighty Mouse Series 804 Flop-Lid Cover			
Material and Finish	See Material and Finish Table			
Connector Shell Size	See Dimensions Table			
Panel Thickness	1 = .063 ±.03 (1.60 ±.8)		2 = .125 ±.03 (3.18 ±.8)	

Shell Size	A Dim)		B Dim		C Dia		D Flat		E Dim	
	In	mm	In	mm	In	mm	In	mm	In	mm
15	1.42	36.1	.89	22.6	1.070	27.18	1.041/1.037	26.44/26.34	1.74	44.20



Material and Finish		
Sym	Material	Finish Description
M	Aluminum	electroless nickel
NF		Cadmium with Olive Drab
ZN		Zinc-Nickel with Olive Drab Chromate
ZNU		Zinc-Nickel with Black Chromate
MT		Aluminum / Nickel-PTFE
Z1	SST	passivated

NOTES

- Mates to Glenair 804 series rear mousing jam nut connectors
- Hardware Material and finish
 - Housing, cover: see Material and Finish Table
 - Shaft, spring: cress/passivate
 - Sleeve: delrin
 - Gasket: silicone/NA



RJ45 AND USB 2.0

Contacts, Tools, and Accessories



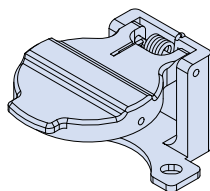
667-424 Spring Loaded Flop-Lid Cover for Series 805 Wall Mount and Jam Nut Connectors

Series 80 Mighty Mouse

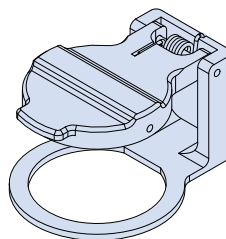
How To Order						
Sample Part Number	667-424	NF	18	T0	J	59
Product Series-Basic No.	667-424 = Mighty Mouse Series 805 Flop-Lid Cover					
Material and Finish	See Material and Finish Table					
Connector Shell Size	See Dimensions Table					
Panel Thickness	See Panel Thickness Table for Dash No.					
Type of Mounting	J = Jam Nut W = Wall Mount					
Conductive Silicone	Omit for Non-conductive 59 = Conductive Silicone					

Panel Thickness				
Dash No	Panel Thickness	Shell Size	H Max	
			Jam Nut Mount	Wall Mount
T0	.000	8-18	N/A	.914
		19-23	N/A	.952
T1	.062 (See Note 1)	8-18	.993	.852
		19-23	1.031	.890

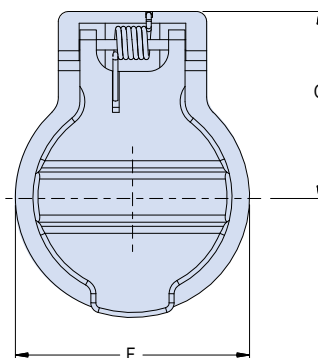
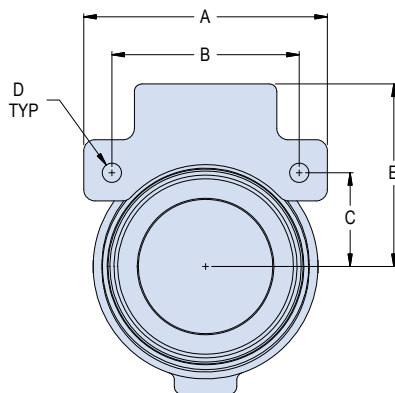
Dimensions														
Shell Size	A Dim		B Dim		C Dim		D ±.002 (.05)		E ±.031 (.79)		F Dim ±.031 (.78)		G Dim ±.031 (.78)	
	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm
10	0.975	20.03	0.785	16.12	0.393	8.07	0.094	1.93	0.825	16.95	0.906	18.61	0.79	16.23
18	1.475	30.30	1.255	25.78	0.628	12.90	0.128	2.63	1.106	22.72	1.465	30.09	1.1	22.59
19	1.537	31.57	1.327	27.26	0.664	13.64	0.128	2.63	1.34	27.52	1.535	31.53	1.338	27.48
21	1.663	34.16	1.452	29.82	0.726	14.91	0.128	2.63	1.465	30.09	1.814	37.26	1.478	30.36



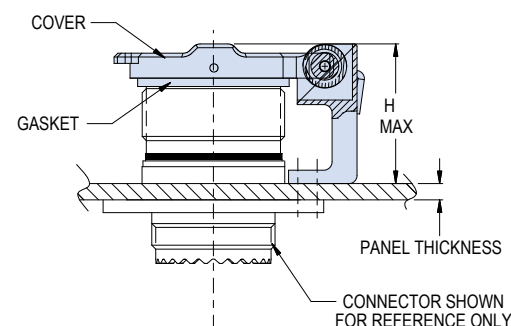
FOR WALL MOUNT RECEPTACLE



FOR JAM NUT MOUNT RECEPTACLE



Material and Finish		
Symbol	Material	Finish Description
M	Aluminum	Electroless nickel
NF		Cadmium with Olive Drab
ZN		Zinc-Nickel with Olive Drab Chromate
ZNU		Zinc-Nickel with Black Chromate
MT		Aluminum / Nickel-PTFE
Z1	SST	passivated



NOTES

- Cover Fits nominally onto panel with .062 thickness, but will also work for panels as thin as .031
- Hardware Material and finish
 - Cover: see Material and Finish Table
 - Spring: stainless steel/passivate
- Sleeve: delrin
- Gasket: silicone/NA

M



RJ45 AND USB 2.0

Contacts, Tools, and Accessories



667-218 Receptacle Metal Protective Covers for Mighty Mouse Series 801 Connectors

Protect Connectors From Damage Machined aluminum covers have rubber gaskets for a watertight fit.

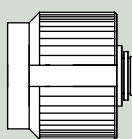
Stainless Steel Fittings and Rings Choose small diameter eye fittings for panel attachment. Larger rings fit under the jam nut or over cable jackets.

Polyurethane-Coated SST Wire Rope offers high strength, excellent abrasion resistance and good flexibility. Or, select a fluoropolymer jacket for high temperature exposure.

Braided Nylon Rope provides excellent flexibility and good abrasion resistance, and can be ordered with slip knot fittings for easy installation on any size cable.

How To Order						
Sample Part Number	667-218	-M	-G	9	04	-6
Series (See Table I)	667-218 = Receptacle Cover (see note 1)					
Material and Finish	M = Aluminum/Electroless Nickel RoHS Compliant MT = Aluminum/Nickel-PTFE RoHS Compliant NF = Aluminum/Cadmium with Olive Drab Chromate ZNU = Aluminum/Zinc-Nickel with Black Chromate Z1 = Stainless Steel/Passivated RoHS Compliant					
Attachment Type	D = Bead Chain, CRES, Passivate G = Nylon Rope N = No Attachment S = SST Sash Chain T = SST Wire Rope, No Jacket "SST" = Stainless Steel F = Wire Rope, Nylon Jacket H = SST Wire Rope, Fluoropolymer Jacket R = Wire Rope, PVC Jacket SK = Nylon Rope With Slip Knot U = SST Wire Rope, Polyurethane Jacket					
Shell Size	8, 16, 17, 19					
Attachment Code (See Table II)	Small Ring (Attached to Panel)= 01 thru 06 Solid Ring (Rear Panel Mount Jam Nut Application) = 14 thru 33					
Attachment Length (inches)	Omit for attachment Type N (No Attachment) Example "-6" equals six inch length					

Table I: Cover Style



667-218

Receptacle Cover

NOTES

- For plug covers contact factory
- Material and Finish
 - Cover: Aluminum alloy or stainless steel
 - Gasket: Fluorosilicone rubber
 - Wire, Hardware: Stainless steel, passivated



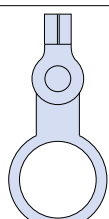
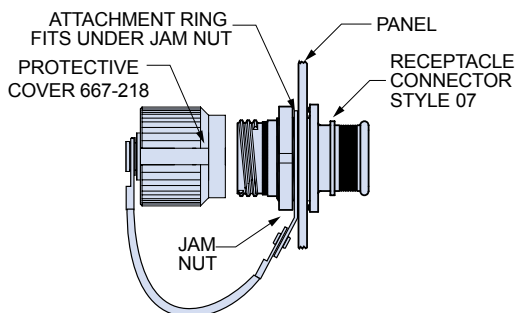
RJ45 AND USB 2.0

Contacts, Tools, and Accessories



667-218 Receptacle Metal Protective Covers for Mighty Mouse Series 801 Connectors

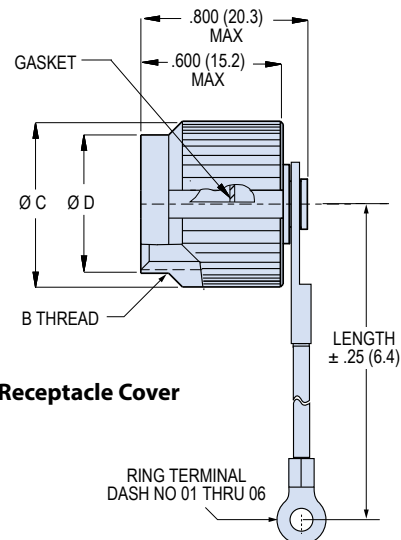
667-218 Cover Attachment for RPM Jam Nut Receptacle



Solid Ring

Atthmt Code	Shell Size	Ring I.D.		Ring O.D.	
		In. ± .010	mm. ± 0.25	In. ± .015	mm. ± 0.38
16	8	.570	14.48	.69	17.40
20	16	1.070	27.17	1.20	30.35

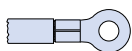
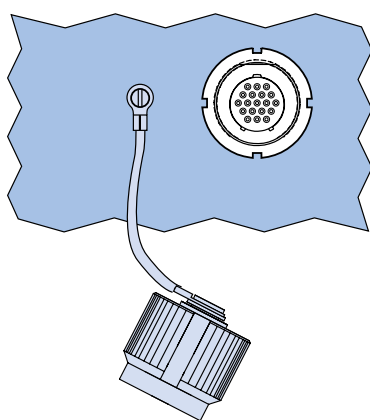
667-218 Receptacle Cover



Dimensions

Shell Size	Ø A Max.		Ø B Max.		Ø D Max.		C Thread
	In.	mm.	In.	mm.	In.	mm.	
8	.653	16.6	.675	17.15	.587	14.9	.5000-.05-1L
16	1.150	29.2	1.261	32.03	1.092	27.7	1.000-.1P-.2L

667-218 Cover Attachment to a Panel with a Screw



Small Ring for Attaching Receptacle Covers to a Panel with a Screw

Atthmt Code	Screw Size	Ring I.D.		Ring O.D.	
		In. ± .005	mm. ± 0.13	In. Max.	mm. Max.
01	#4, M3	.126	3.20	.31	7.9
02	#6	.145	3.68	.31	7.9
04	#8, M4	.188	4.78	.31	7.9
06	#10	.197	5.00	.31	7.9

Lanyard Options

	-65° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter
	Black polyurethane over stainless steel rope, -65° to +125°C., very flexible, excellent abrasion resistance, excellent resistance to fuels, .080" (2mm) diameter
	Translucent FEP jacket over stainless steel, -65° to +200°C., fair flexibility, good abrasion resistance, .100" diameter
	Stainless steel, #8 chain, .240" (6mm)
	65° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter. Length includes .5" (13mm) diameter loop.

Series 80 Mighty Mouse

M



RJ45 AND USB 2.0

Contacts, Tools, and Accessories



667-202 Receptacle Metal Protective Cover for Mighty Mouse Series 804 connectors

Protect Connectors From Damage

Machined aluminum covers prevent ingress of contamination and water.

Stainless Steel Fittings and Rings

Choose small diameter eye fittings for panel attachment. Larger rings fit under the jam nut or over cable jackets. Split rings can be installed on fully assembled cables.

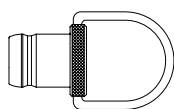
Polyurethane-Coated SST Wire Rope offers high strength, excellent abrasion resistance and good flexibility. Or, choose Fluoropolymer[®] jacket for high temperature exposure.

Braided Nylon Rope provides excellent flexibility and good abrasion resistance, and can be ordered with slip knot fittings for easy installation on any size cable.

Series 80 Mighty Mouse

How To Order							
Sample Part Number		667-202	M	8	H	6	-14 R
Series (See Table I)	667-202 = Receptacle Cover (see note 1)						
Shell Material / Finish	M = Aluminum/Electroless Nickel RoHS Compliant NF = Aluminum/Cadmium with Olive Drab Chromate ZNU = Aluminum/Zinc-Nickel with Black Chromate MT = Aluminum/Nickel-PTFE RoHS Compliant Z1 = Stainless Steel/Passivated RoHS Compliant						
Shell Size	8, 10, 14, 15, 16						
Attachment Type	D = Bead Chain, CRES, Passivate G = Nylon Rope N = No Attachment S = SST Sash Chain T = SST Wire Rope, No Jacket "SST" = Stainless Steel F = Wire Rope, Nylon Jacket H = SST Wire Rope, Fluoropolymer Jacket R = Wire Rope, PVC Jacket SK = Nylon Rope With Slip Knot U = SST Wire Rope, Polyurethane Jacket						
Attachment Length (inches)	Omit for attachment Type N (No Attachment) Example: "-6" equals six inch length						
Attachment Code (See Table II)	Small Ring = 01 thru 06 Large Ring = 28 thru 30						
Pull Ring Option	R = Supplied with Pull Ring (Omit for none)						

Table I: Cover Style



667-202

Push Pull Receptacle Cover with Pull Ring

NOTES

1. For plug covers contact factory
2. Material and Finish
 - Cover: Aluminum alloy or stainless steel
 - Hardware: Stainless steel, passivate

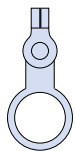
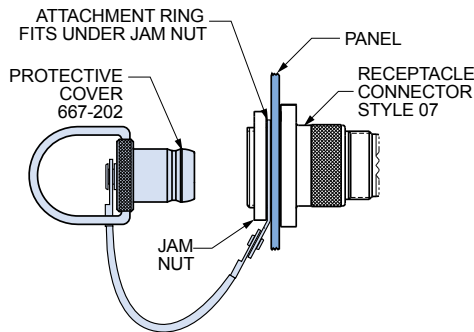


RJ45 AND USB 2.0 Contacts, Tools, and Accessories



667-202 Receptacle Metal Protective Cover for Mighty Mouse Series 804 Connectors

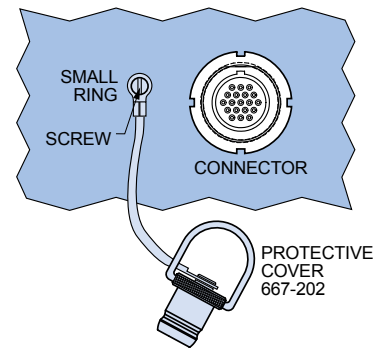
667-202 Cover Attachment to RPM Jam Nut Receptacle



Large Ring

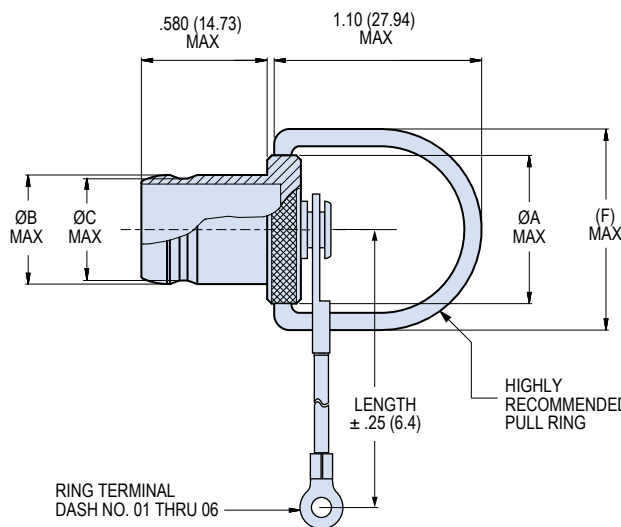
Dia. Code	Shell Size	Ring I.D.		Ring O.D.	
		In.	mm.	In.	mm.
28	14, 15	±.010	±0.25	±.015	±0.38
21	14, 15	1.015	25.78	1.20	30.48
20	14, 15	1.135	28.8	1.25	31.8
30	16	1.380	35.1	1.48	37.6

667-202 Cover Attachment to Panel



Small Ring for
Attaching Receptacle
Covers to a Panel with
a Screw

Dia. Code	Screw Size	Ring I.D.		Ring O.D.	
		In.	mm.	In.	mm.
01	#4, M3	±.005	±0.13	Max.	Max.
02	#6	.126	3.20	.31	7.9
04	#8, M4	.145	3.68	.31	7.9
06	#10	.188	4.78	.31	7.9



Dimensions

Shell Size	Ø A Max.		Ø B		Ø C		(F) Max	
	In	mm	In	mm	In	mm	In	mm
8	.614	15.60	.414	10.52	.383	9.73	.87	22.10
10	.773	19.63	.548	13.92	.513	13.03	1.03	26.16
14	.980	24.89	.781	19.84	.749	19.02	1.23	31.24
15	1.045	26.54	.843	21.41	.811	20.60	1.30	33.02
16	Contact Factory							

Lanyard Options



Nylon Rope

-65° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter



Polyurethane Coated Wire Rope

Black polyurethane over stainless steel rope, -65° to +125°C., very flexible, excellent abrasion resistance, excellent resistance to fuels, .080" (2mm) diameter



Fluoropolymer Jacketed Wire Rope

Translucent FEP jacket over stainless steel, -65° to +200°C., fair flexibility, good abrasion resistance, .100" diameter



Sash Chain

Stainless steel, #8 chain, .240" (6mm)



Slip Knot (SK)
for Attaching Covers to Cable

65° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter. Length includes .5" (13mm) diameter loop.



RJ45 AND USB 2.0 Contacts, Tools, and Accessories



667-262 Receptacle Metal Protective Covers for Mighty Mouse Series 805



**Receptacle
Cover**

Protect Connectors From Damage

Machined aluminum or stainless steel protective covers have fluorosilicone gasket for a watertight fit.

Stainless Steel Fittings and Rings

Choose small diameter eye fittings for panel attachment. Larger rings fit under the jam nut or over cable jackets. Split rings can be installed on fully assembled cables.

Polyurethane-Coated SST Wire Rope

provide resistance and good flexibility. Or, choose a Fluoropolymer jacket for high temperature exposure.

Braided Nylon Rope

provides excellent flexibility and good abrasion resistance, and can be ordered with slip knot fittings for easy installation on any size cable.

How To Order						
Sample Part Number	667-262	-M	-G	10	04	-6
Series (See Table I)	667-262 = Receptacle Cover (see note 1)					
Shell Material / Finish	M = Aluminum/Electroless Nickel RoHS Compliant NF = Aluminum/Cadmium with Olive Drab Chromate ZNU = Aluminum/Zinc-Nickel with Black Chromate MT = Aluminum/Nickel-PTFE RoHS Compliant Z1 = Stainless Steel/Passivated RoHS Compliant					
Attachment Type	D = Bead Chain, CRES, Passivate F = Wire Rope, Nylon Jacket G = Nylon Rope H = SST Wire Rope, Fluoropolymer Jacket N = No Attachment R = Wire Rope, PVC Jacket S = SST Sash Chain SK = Nylon Rope With Slip Knot T = SST Wire Rope, No Jacket U = SST Wire Rope, Polyurethane Jacket "SST" = Stainless Steel					
Shell Size	10, 18, 19, 21					
Attachment Code (See Table II)	Small Ring = 01 thru 06 Large Ring = 18 thru 30					
Attachment Length (inches)	Omit for attachment Type N (No Attachment) Example "-6" equals six inch length					

Table I: Cover Style



667-262

Receptacle Cover

NOTES

1. For plug covers contact factory
2. Material and Finish
 - Gasket: Fluorosilicone rubber
 - Wire, Hardware: Stainless steel, passivated

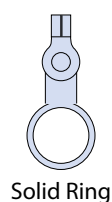
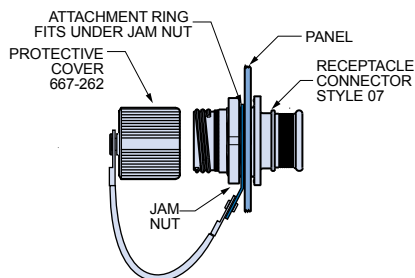


RJ45 AND USB 2.0 Contacts, Tools, and Accessories



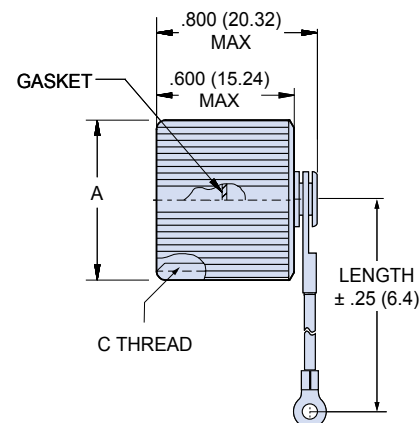
667-262 Receptacle Metal Protective Covers for Mighty Mouse Series 805

667-262 Cover Attachment to RPM Jam Nut Receptacle



Solid Ring

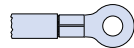
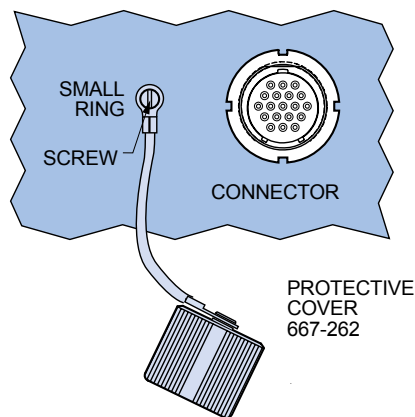
Attchmt Code	Shell Size	Ring I.D.		Ring O.D.	
		In.	mm.	In.	mm.
		± .010	±0.25	± .015	± 0.38
18	10	.695	17.65	.82	20.83
22	18	1.210	30.73	1.31	33.27
23	19	1.275	32.39	1.37	34.80
30	21	1.380	35.05	1.48	37.59



Dimensions

Shell Size	A		B Thread	C Thread
	In.	mm.		
10	.778	19.76	.6250-.1P-.3L-TS-2A	.6250-.1P-.3L-TS-2B
18	1.278	32.46	1.1250-.1P-.3L-TS-2A	1.1250-.1P-.3L-TS-2B
19	1.340	34.04	1.1870-.1P-.3L-TS-2A	1.1870-.1P-.3L-TS-2B
21	1.490	37.85	1.3125-.1P-.3L-TS-2A	1.3125-.1P-.3L-TS-2B

667-262 Cover Attachment to Panel



Small Ring
for Attaching
Receptacle Covers
to a Panel with a
Screw

Attchmt Code	Screw Size	Ring I.D.		Ring O.D.	
		In.	mm.	In.	mm.
		±.005	±0.13	Max.	Max.
01	#4, M3	.126	3.20	.31	7.9
02	#6	.145	3.68	.31	7.9
04	#8, M4	.188	4.78	.31	7.9
06	#10	.197	5.00	.31	7.9

Lanyard Options



Nylon Rope

-65° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter



Polyurethane Coated Wire Rope

Black polyurethane over stainless steel rope, -65° to +125°C., very flexible, excellent abrasion resistance, excellent resistance to fuels, .080" (2mm) diameter



Fluoropolymer Jacketed Wire Rope

Translucent FEP jacket over stainless steel, -65° to +200°C., fair flexibility, good abrasion resistance, .100" diameter



Sash Chain

Stainless steel, #8 chain, .240" (6mm)



Slip Knot (SK)
for Attaching Covers to Cable

65° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter. Length includes .5" (13mm) diameter loop.



Coming Soon SuperSeal™ RJ45 CAT 6A ETHERNET CONNECTORS

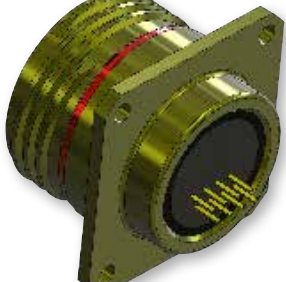


RJ45 Cat 6a MIL-
DTL-38999 Series III
Type Wall-Mount
Receptacle and Plug

High performance, proven reliability environmental connectors housing RJ45 interfaces for mission-critical data transfer applications

- Superior sealing—IP67 minimum in unmated condition—for complete system protection against harsh elements
- Advanced thru-coupler grounding for superior electrostatic discharge and EMC
- Crimp, solder-cup, PC tail, quadrax, and compliant pin contact variations
- Scoop proof, self-locking, triple-start threaded coupling design of MIL-DTL-38999 Series III type connectors
- RJ45 cordsets with multiple length options available
- Integrated banding platform options for easy cable termination and EMI/RFI shielding
- Optional spring loaded protective covers for sand, dust, and mechanical protection of junction boxes and switches
- RJ45 plug and/or jack interfaces
- High Data Transfer Rates: 10GBase

SuperSeal™ MIL-DTL-38999 Type RJ45 Connector Selection Guide

			
MIL-DTL-38999 Series III Type Plug Connectors with sealed RJ45 Plug (mated condition) Ethernet interfaces in a two piece coupler design. Easy field termination with Metal Gland backshell or shrink boot sealing options.	MIL-DTL-38999 Series III Type Receptacle Connectors with sealed RJ45 Jack-to-Jack Ethernet interfaces in a one piece coupler design. Metal Gland backshell and spring loaded protective covers available.	MIL-DTL-38999 Series III Type Receptacle Connectors with AS39029 crimp rear-release size #22D contacts	MIL-DTL-38999 Series III Type Receptacle Connectors with sealed RJ45 Jack interface and AS39029 rear-release crimp or solder cup #22D contacts. Size 22 Compliant Pin contacts, Quadrax Contacts or #22 PC Tail contacts also available.

Test Description	SuperSeal MIL-DTL-38999 Series III RJ45 Performance Requirements/Specifications	Procedure Per MIL-DTL-38999 and TIA/EIS-568-B.2
Contact Resistance	Connecting hardware shall conform to A.2; a thru c of TIA/EIA-568-B.2 per IEC 60512-2, Test Method 2A, millivolt level method (shall not exceed 0.025 ohms and 0.050 ohms during subsequent tests)	TIA/EIA-568-B.2, Section A.2 IAW IEC 60512-2, Test method 2A
Insulation Resistance	Per IEC 60512-2, Test 3a, Method C, test voltage 500 VDC (Insulation Resistance minimum of 100 Ohm)	IAW IEC 60512-2, Test Method 2A
Mating Durability	500 to 1000 cycles (finish dependent) with no mechanical damage. Contact Resistance requirement as described above shall be met at 0.050 ohms after 100, 200 and 250 cycles (and 500 per finish). This shall be performed before Thermal Shock and Humidity/ Temperature cycling test and the additional 250 cycles shall be testing after completion in the same manner.	4.5.8 IAW TIA/EIA-568-B.2
Contact Retention	Individual contacts capable of withstanding at least 10 pounds axial load applied uniformly 1 lb/sec	IAW EIA-364-29
Vibration	Per MIL-DTL-38999 Series III Condition VI Letter J; Sine: 10 to 2,000 Hz each of three mutually perpendicular axis total of 36 hours (4 hours each ambient, -40°C and +85°C temperatures) Random: 43.9 rms g's random vibration 16 hours (8 hours longitudinal and perpendicular direction). No electrical discontinuity.	3.27 Sine 4.5.23.3 & 4.5.23.4 Random 4.5.23.1 IAW EIA-364-28
Shock	100 mA max with no discontinuities excess of 1 microsecond. Standard: Per EIA-364-27 – half sine wave @ 300 G. High Impact: Per MIL S 901, Grade A.	4.5 IAW EIA-364-27 IAW MIL S 901
Thermal Shock	Per IEC 60068-2-14 Test Number Nb. • Temperature range -40 - +85°C ± 2°C • Exposure Time: 30 min. • Number of Cycles: 100 • Test Group B contacts shall be inspected and contact resistance measured after 50 cycles and at completion of est. These specimens shall be used for humidity/thermal cycling testing.	TIA/EIA-568-B.2, A.7 IAW IEC 60068-2-14, Test Number Nb
Humidity/ Temperature Cycling	EIA-364-31 with exceptions b, d & e; EIA 364-32 Test Condition A, except steps 2 & 4 shall be 2 minutes max duration; Humidity/Temperature: TIA/EIA-568-B.2, A.8 per IEC 60068-2-38; Temperature for step 1 shall be -45 +0/-5°C. • Temperature for step 3 shall be 85 +5/-0°C Exposure Time: 30 min. • Number of Cycles: 100 No blistering, peeling or separation of the plating or other damage detrimental to operation of connector	4.5.11.1 or 4.5.11.2 4.5.13 IAW EIA-364-31, Method IV with temperature exceptions; IAW EIA-364-32, Test cond. A; IAW IEC 60068-2-14, Test Method Z/AD
Salt Spray	5% solution, 34°-36°C. 48-1000 hours, depending on finish. Unmated connectors show no lifting of plated coating or exposure of basis material under 3X magnification which adversely affects performance.	4.5.13 IAW EIA-364-26
Water Immersion	1 Meter for 1 hour, Unmated	MIL-STD-810 method 512
EMI Shielding	Per IEC 60603-7, 1 MHz to 1000 MHz with effectiveness of 22 dB.	4.5.28 EIA-364-66
Fluid Resistance	Per EIA-364-10 unmated connector shall not experience any damage detrimental to performance after immersion in fluid.	4.5.30 IAW EIA-364-10

MIL-DTL-38999 Connector and Cable Assembly Material and Finish Codes

Code	Material	Finish	Finish Specification	Hrs. Salt Spray	Electrical Conductivity	Operating Temp. Range	RoHS Compliance
ME	Aluminum	Electroless Nickel	MIL-DTL-24308 Class K	96	Yes		Yes
MT	Aluminum	Nickel PTFE	SAE AMS2454	500	Yes	-65° to +175°C	Yes
NF	Aluminum	Cadmium, Olive Drab	SAE-AMS-QQ-P-416 Type II Class 2 over electroless nickel	500	Yes	-65 to +175°C	No
ZR	Aluminum	Zinc-Nickel, Black	ASTM B841 Grade 5 over electroless nickel	500	Yes	-65 to +175°C	Yes

MIL-DTL-38999 RJ45 Cat6a Electrical Specs for Plug & Receptacle

Rating	Category 6a
Data rate	10GBase
Voltage rating	1000 Volts
Current rating	1.5 Amps (max)
Frequency	500 MHz (max)
Wiring	Straight through
Shield continuity	Continuous thru-coupler
Cable length	100 M (max)



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U.S. CAGE code 06324

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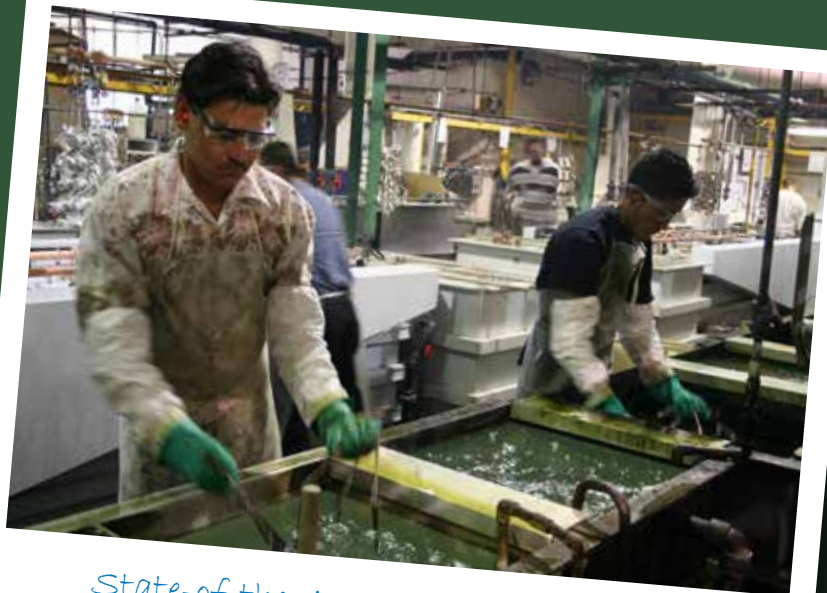
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High-Production Injection
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State-of-the-Art Plating Capabilities



The Industry's Most Experienced
EMI/RFI Braided Shielding Specialists



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Clean Rooms for Filter Array and Printed
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