

MISSION-CRITICAL
INTERCONNECT
SOLUTIONS



SERIES 882

SuperFly[®] Datalink

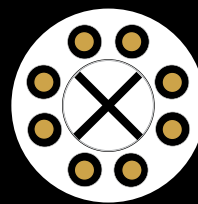


Harsh-Environment Ultraminiature Connector for
High-Speed Applications Including 40 Gigabit Ethernet,
HDMI, SuperSpeed USB, DisplayPort, and SATA

SEPTEMBER 2022

40G ETHERNET
AND SUPERSPEED
USB TECHNOLOGY

SUPERFLY DATALINK



*The High-Speed Ultraminiature
Connector for Harsh Environments*



High speed, harsh environment SuperFly® Datalink connectors—optimized for 10Gb Ethernet and SuperSpeed USB protocols—save significant size and weight. Suitable for aircraft avionics, weapons systems, satellites, radars, communications equipment and other aerospace/defense gear, Octaxial SuperFly® Datalink connectors bring superior EMC shielding, environmental protection, and signal integrity to mission-critical mil-aero applications.

Quick-disconnect “push-pull” versions are ideal for tactical gear. Threaded-coupling versions are intended for aircraft and space-grade applications where secure mating is a requirement.



**SuperFly Datalink
White**

Up to 40G Ethernet



**SuperFly Datalink
Blue**

SuperSpeed USB



**SuperFly Datalink
Red**

HDMI, DisplayPort,
and SATA

Glenair®

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On the cover: Curiosity rover “selfie” at Mars’ Mount Sharp. NASA/JPL-Caltech/MSSS photo.

Introduction

SUPERFLY DATALINK

Series 882 Connectors
 and Turnkey Cordsets

Selection Guides	2-9
Product Features	10-11
Signal Integrity Data.....	12-13
Specifications	14
Modification Codes	15
Protective Covers.....	101
Part Number Index.....	101

SuperFly Datalink connectors are ultra-small octaxial quick-disconnect (QDC) or threaded-coupling connectors for 40Gb Ethernet, USB 3.0, HDMI, DisplayPort, and SATA. Designed to withstand harsh aerospace environments, SuperFly Datalink combines miniaturized design with shielded electrical performance and sealed environmental protection.



SuperFly Datalink is the aerospace industry's smallest connector solution. Compatible with flight-grade shielded data cable, these shielded-contact connectors are available as unassembled kits or factory-terminated cordsets. Panel jacks feature fully-sealed printed circuit terminals for vertical or right-angle board mounting.



Quick Disconnect



Threaded Coupling



Straight PC Tails



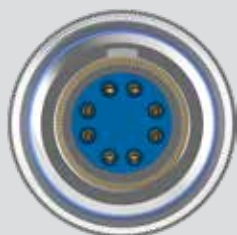
Right Angle PC Tails



SuperFly Datalink White

El Ochito® White provides optimization of Ethernet protocols with the use of cross shields to minimize crosstalk. Ideal for Ethernet up to 40GBase-T applications in hostile environments with temperature extremes, high vibration, electromagnetic interference as well as moisture exposure. Compatible with SAE AS6070 flight-grade Ethernet cable. Accepts 24 AWG to 26 AWG. Available with secure threaded coupling or push-pull QDC mating.

See Page 2 for SuperFly Datalink White (40Gb Ethernet) Selection Guide



SuperFly Datalink Blue

El Ochito® Blue provides 90 ohm differential impedance for SuperSpeed USB. Ideal for USB 3.0 applications in hostile environments with temperature extremes, vibration, electromagnetic interference, as well as moisture exposure. Designed for use with high performance aerospace grade USB 3.0 cable. Available with secure threaded coupling or push-pull QDC mating.

See Page 5 for SuperFly Datalink Blue (SuperSpeed USB 3.0) Selection Guide



SuperFly Datalink Red

El Ochito® Red provides 100 ohm differential impedance for HDMI 2.0, DisplayPort 1.2, SATA, and general high speed up to 10 Gbps. Ideal for video applications in hostile environments with temperature extremes, vibration, electromagnetic interference, as well as moisture exposure. Designed for use with high performance aerospace grade cable. Available with secure threaded coupling or push-pull QDC mating.

See Page 7 for SuperFly Datalink Red (HDMI, DisplayPort, and SATA) Selection Guide

Selection Guide: El Ochito® White for up to 40Gb Ethernet

Quick Disconnect for up to 40Gb Ethernet

882-001 Cable Plug17
Integral backshell and cable grommet. Supplied as unassembled kit for termination to Cat 6A and Cat 8 Ethernet cable. Mates to 882-002, -005, -008, -038.



882-002 Cable Receptacle18
Integral backshell and cable grommet. Supplied as unassembled kit for termination to Cat 6A and Cat 8 Ethernet cable. Mates to 882-001, -017, -032, -035.



882-035 Panel Mount Plug.....19
Integral backshell and cable grommet. Supplied as unassembled kit for termination to Cat 6A and Cat 8 Ethernet cable. Mates to 882-002, -005, -008, -038.



882-038 Panel Mount Receptacle20
Integral backshell and cable grommet. Supplied as unassembled kit for termination to Cat 6A and Cat 8 Ethernet cable. Mates to 882-001, -017, -032, -035.



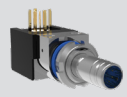
882-017 PCB Plug.....21
Rear panel mount, jam-nut plug with O-ring seals and epoxy potting for watertight sealing. Mates with 882-002, -005, -008, and -038.



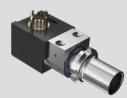
882-005 PCB Receptacle22
Straight Rear panel mount, jam-nut receptacle with O-ring seals and epoxy potting for watertight sealing. Mates with 882-001, -017, -032, and -035.



882-032 90° PCB Plug.....23
Rear panel mount, jam-nut plug with O-ring seals and epoxy potting for watertight sealing. Up to 10 GbE. Mates with 882-002, -005, -008, and -038.



882-008 90° PCB Receptacle.....24
Rear panel mount, jam-nut receptacle with O-ring seals and epoxy potting for watertight sealing. Up to 10 GbE. Mates with 882-001, -017, -032, -035.



8571-0007 Cordset, Single-ended.....25
Pre-wired with aerospace-grade Cat 6A Ethernet cable. Cable has SuperFly connector on one end, opposite end is unterminated.



8571-0008 Cordset, Double-ended.....26
Pre-wired with aerospace-grade Cat 6A Ethernet cable. Cable has SuperFly plug on one end and receptacle on the other end.



8571-0009 RJ45 Patchcord, Ground.....27
Pre-wired with commercial-grade Cat 6A Ethernet cable. Cable has SuperFly plug on one end and RJ45 plug on opposite end.



8571-0010 RJ45 Patchcord, Flight28
Pre-wired with aerospace-grade Cat 6A Ethernet cable. Cable has SuperFly connector on one end and plug or receptacle on the other end.



8571-0033 Cordset, Single-ended.....29
Pre-wired with aerospace-grade Cat 8 Ethernet cable. Cable has SuperFly connector on one end, other end is unterminated.



8571-0034 Cordset, Double-ended.....30
Pre-wired with aerospace-grade Cat 8 Ethernet cable. Cable has SuperFly plug on one end and receptacle on opposite end.



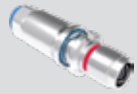
8571-0035 RJ45 Patchcord, Flight31
Pre-wired with aerospace-grade Cat 8 Ethernet cable. Cable has SuperFly connector on one end and RJ45 plug on the other end.





Selection Guide: El Ochito® White for up to 40Gb Ethernet

Threaded Coupling for up to 40Gb Ethernet

 882-003 Cable Plug32 Integral backshell and cable grommet. Supplied as unassembled kit for termination to Cat 6A and Cat 8 Ethernet cable. Mates to 882-004, -006, -007, and -041.	 8571-0013 Cordset, Double-ended38 Pre-wired with aerospace-grade Cat 6A Ethernet cable. Cable has SuperFly plug on one end and receptacle on opposite end.
 882-006 Cable Receptacle33 Integral backshell and cable grommet. Supplied as unassembled kit for termination to Cat 6A and Cat 8 Ethernet cable. Mates with 882-003.	 8571-0015 RJ45 Patchcord, Ground39 Pre-wired with commercial-grade Cat 6A Ethernet cable. Cable has SuperFly connector on one end and RJ45 plug on the other end.
 882-041 Panel Mount Receptacle34 Integral backshell and cable grommet. Supplied as unassembled kit for termination to Cat 6A and 8 Ethernet cable. Mates with 882-003.	 8571-0016 RJ45 Patchcord40 Pre-wired with aerospace-grade Cat 6A Ethernet cable. Cable has SuperFly connector on one end and RJ45 plug on opposite end.
 882-004 PCB Receptacle35 Rear panel mount, jam-nut receptacle with O-ring seals and epoxy potting for watertight sealing. Mates with 882-003.	 8571-0036 Cordset, Single-ended41 Pre-wired with aerospace-grade Cat 8 Ethernet shielded cable. Cable has SuperFly connector on one end, opposite end is unterminated.
 882-007 90° PCB Receptacle36 Rear panel mount, jam-nut receptacle with O-ring seals and epoxy potting for watertight sealing. Mates with 882-003. 10GE only.	 8571-0037 Cordset, Double-ended42 Pre-wired with aerospace-grade Cat 8 Ethernet shielded cable. Cable has SuperFly plug on one end and receptacle on the other end.
 8571-0012 Cordset, Single-ended37 Pre-wired with aerospace-grade Cat 6A Ethernet cable. Cable has SuperFly connector on one end, opposite end is unterminated.	 8571-0038 RJ45 Patchcord43 Pre-wired with aerospace-grade Cat 8 Ethernet cable. Cable has SuperFly connector on one end and RJ45 plug on opposite end.

Selection Guide: Ethernet Cables

Flight-Grade 100 ohm Ethernet Cables



963-033-24 S/FTP Cat 6A Cable.....44
24 AWG, S/FTP construction, foil shielded data pairs. High performance shielded cable is AS6070/5 and /6 approved. Meets TIA-568.C Cat 6A requirements up to 80 m.



963-033-26 S/FTP Cat 6A Cable.....44
26 AWG, S/FTP construction, foil shielded data pairs. High performance shielded cable is AS6070/5 and /6 approved. Meets TIA-568B Cat 6A requirements up to 65 m.



963-037-24 S/UTP Cat 6A Cable.....45
24 AWG, S/UTP construction with fluoropolymer spline and light weight PTFE tape jacket. Meets FAA flammability requirements up to 246 ft.



963-003-24 S/UTP Cat 6A Cable.....45
24 AWG, S/UTP construction with fluoropolymer spline. RoHS Compliant. Meets FAA flammability requirements. Meets TIA-568B Cat 6A requirements up to 240 ft.



963-003-26 Cat 6A S/UTP Cable.....46
26 AWG, S/UTP construction with fluoropolymer spline. RoHS Compliant. Meets FAA flammability requirements. Meets TIA-568B Cat 6A requirements up to 188 ft.



963-132-24 S/FTP Cat 8 Cable.....46
24 AWG, S/UTP constructed with lightweight EF100 jacket. Meets FAA flammability requirements. Meets TIA-568-2.D Cat 8 requirements up to 22 meters



963-132-26 S/FTP Cat 8 Cable.....46
26 AWG, S/UTP constructed with lightweight EF100 jacket. Meets FAA flammability requirements. Meets TIA-568-2.D Cat 8 requirements up to 18 meters



963-135-26 S/FTP Cat 8 Cable.....47
26 AWG, S/FTP construction with blue FEP jacket. RoHS compliant (directive 2002/95/EC). Electrical performance verified to TIA-568-D.2 Cat 8 requirements up to 20 meters.



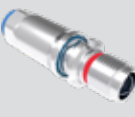
Selection Guide: El Ochito® Blue for USB 3.0

Quick Disconnect for USB 3.0

 882-009 Cable Plug48 Integral backshell and cable grommet. Supplied as unassembled kit for termination to USB 3.0 cable. Mates with 882-010, -013, -016, -039.	 882-033 90° PCB Plug54 Rear panel mount, jam-nut plug with O-ring seals and epoxy potting for watertight sealing. Mates with 882-010, -013, -016, 039.
 882-010 Cable Receptacle49 Integral backshell and cable grommet. Supplied as unassembled kit for termination to USB 3.0 cable. Mates to 882-009, -018, -033, -036.	 882-016 90° PCB Receptacle55 Rear panel mount, jam-nut receptacle with O-ring seals and epoxy potting for watertight sealing. Mates with 882-009, -018, -033, -036.
 882-036 Panel Mount Plug50 Integral backshell and cable grommet. Supplied as unassembled kit for termination to USB 3.0 cable. Mates to 882-010, -013, -016, -039.	 8572-0006 Cordset, Single-ended56 Pre-wired with aerospace-grade or commercial-grade USB 3.0 cable. Cable has Superfly connector on one end, other end is unterminated.
 882-039 Panel Mount Receptacle51 Integral backshell and cable grommet. Supplied as unassembled kit for termination to USB 3.0 cable. Mates to 882-009, -018, -033, -036.	 8572-0007 Cordset, Double-ended57 Pre-wired with aerospace-grade or commercial-grade USB 3.0 cable. Cable has Superfly plug on one end and receptacle on the other end.
 882-018 PCB Plug52 Rear panel jam-nut mount plug with O-ring seals and epoxy potting for watertight sealing. Mates with 882-010, -013, -016, -039.	 8572-0008 Patchcord, USB58 Pre-wired patchcord with commercial-grade USB 3.0 cable. Cable has Superfly connector on one end, opposite end is standard USB connector.
 882-013 PCB Receptacle53 Rear panel mount, jam-nut receptacle with O-ring seals and epoxy potting for watertight sealing. Mates with 882-009, -018, -033, -036.	

Selection Guide: El Ochito® Blue for USB 3.0

Threaded Coupling for USB 3.0

 882-011 Cable Plug59 Integral backshell and cable grommet. Supplied as unassembled kit for termination to USB 3.0 cable. Mates with 882-012, -014, -015, and -042.	 882-015 90° PCB Receptacle63 Rear panel mount, jam-nut receptacle with O-ring seals and epoxy potting for watertight sealing. Mates with 882-011.
 882-014 Cable Receptacle60 Integral backshell and cable grommet. Supplied as unassembled kit for termination to USB 3.0 cable. Mates with 882-011.	 8572-0010 Cordset, Single-ended64 Pre-wired with aerospace-grade or commercial-grade USB 3.0 cable. Cordset has SuperFly connector on one end, opposite end is unterminated.
 882-042 Panel Mount Receptacle61 Integral backshell and cable grommet. Supplied as unassembled kit for termination to USB 3.0 cable. Mates with 882-011.	 8572-0011 Cordset, Double-ended65 Pre-wired with aerospace-grade or commercial-grade USB 3.0 cable. Cordset has SuperFly plug on one end and receptacle on opposite end.
 882-012 PCB Receptacle62 Rear panel mount, jam-nut receptacle with O-ring seals and epoxy potting for watertight sealing. Mates with 882-011.	 8572-0013 Patchcord66 Pre-wired with commercial-grade USB 3.0 cable. Cable has standard USB connector on one end, other end is SuperFly connector

90 ohm USB 3.0 Cables

 963-110 Flight-Grade Cable67 High temperature, high performance, fluoropolymer materials, shielded. High speed pairs have braid shields. -65° to +200°C.	 963-118 Commercial-Grade Cable67 Black PVC jacket, foamed PE wire insulation. High speed pairs have foil shields. 0 to +80°C.
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Selection Guide: El Ochito® Red for HDMI and DisplayPort

Quick Disconnect for HDMI and DisplayPort



882-019 Cable Plug68
Integral banding porch backshell. Supplied as unassembled kit for termination to HDMI/DP cable. Mates with 882-020 and 882-022.



882-020 Cable Receptacle.....69
Integral banding porch. Supplied as unassembled kit for termination to HDMI/DP cable. Mates with 882-019 and 882-021 882-021.



882-021 PCB Plug.....70
Rear panel mount, jam-nut plug with O-ring seals and epoxy potting for watertight sealing. Mates to 882-020 & 882-022.



882-022 PCB Receptacle71
Rear panel mount, jam-nut receptacle with O-ring seals and epoxy potting for watertight sealing. Mates to 882-019 & 882-021.



8573-0029 Cordset, Single-ended.....72
HDMI / DisplayPort cordset with aerospace-grade cable. Superfly connector on one end, opposite end is unterminated.



8573-0030 Cordset, Double-ended.....73
HDMI / DisplayPort cordset with aerospace-grade cable. SuperFly plug-to-receptacle cordset.



8573-0031 Cordset, Double-ended.....74
HDMI cordset with commercial-grade HDMI cable. SuperFly connector to HDMI plug.



8573-0032 Cordset, Double-ended.....75
DisplayPort cordset with commercial-grade cable. SuperFly connector to DisplayPort plug.



8573-0033 Cordset, Double-ended.....76
HDMI 2.0 cordset with aerospace-grade cable. SuperFly connector to HDMI plug.

Selection Guide: El Ochito® Red for Multi-gig and SATA

Quick Disconnect for Multi-Gig SATA and General High Speed

882-023 Cable Plug77
Multi-gig, 100 Ohm choose Integral band platform or cable grommet backshell. Supplied as unassembled kit. Mates with 882-024, -027, -030, -040.

882-024 Cable Receptacle78
Multi-gig, 100 Ohm choose Integral band platform or cable grommet backshell. Supplied as unassembled kit. Mates with 882-023, -031, -034, -037.

882-037 Panel Mount Plug79
Multi-gig, 100 Ohm integral backshell and cable grommet. Supplied as unassembled kit. Mates with 882-011, -024, -027, -030, and -040.

882-040 Panel Mount Receptacle80
Multi-gig, 100 Ohm choose Integral band platform or cable grommet backshell. Supplied as unassembled kit. Mates with 882-023, -031, -034, -037.

882-031 PCB Plug81
Multi-gig, 100 ohm, rear panel mount, jam-nut receptacle. O-ring seals and epoxy potting for watertight sealing. Mates with 882-024, -027, -030, -040.

882-027 PCB Receptacle82
Multi-gig, 100 Ohm PCB, rear panel mount, jam-nut receptacle. O-ring seals and epoxy potting for watertight sealing. Mates with 882-023, -031, -034, -037.

882-030 90° PCB Receptacle83
Multi-gig, 100 Ohm rear panel mount, jam-nut receptacle. O-ring seals and epoxy potting for watertight sealing. Mates with 882-023, -031, -034, -037.

882-034 90° PCB Plug84
Multi-gig, 100 Ohm PCB 90° rear panel mount, jam-nut plug. O-ring seals and epoxy potting for watertight sealing. Mates with 882-024, -027, -030, -040.

8573-0025 Cordset, Single-ended85
Multi-gig, 100 ohm pre-wired single-ended, SuperFly QDC plug or receptacle, opposite end is unterminated

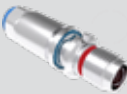
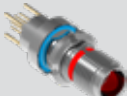
8573-0026 Cordset, Double-ended86
Multi-gig, 100 ohm cordset with SuperFly QDC plug on one end and receptacle connector on opposite end.

8573-0038 Cordset, Single-ended87
SATA 3.0, 100 Ohm cordset with SuperFly connectors on one end, opposite end is unterminated

8573-0039 Cordset, Double-ended88
SATA 3.0, 100 ohm cordset with SuperFly connectors, plug to receptacle.

Selection Guide: El Ochito® Red for Multi-gig and SATA

Threaded Coupling, Multi-Gig 100 Ohm for SATA and General High Speed

	882-025 Cable Plug 89 Choose integral band porch or cable grommet backshell. Kit supplied unassembled. Mates with 882-026, -028, -029 and -043.		8573-0027 Cordset, Single-ended 94 Multi-gig, pre-wired single-ended cordset with cable grommet backshell. Four aerospace-grade cable options available.
	882-026 Cable Receptacle 90 Choose integral band porch or cable grommet backshell. Kit supplied unassembled. Mates with 882-025.		8573-0028 Cordset, Double-ended 95 Multi-gig pre-wired plug-to-receptacle cordset with cable grommet backshell. Four aerospace-grade cable options available.
	882-043 Panel Mount Receptacle 91 Choose integral band porch or cable grommet backshell. Kit supplied unassembled. Mates with 882-025.		8573-0040 Cordset, Single-ended 96 SATA 3.0, pre-wired single-ended cordset SuperFly QDC plug or receptacle, opposite end is unterminated.
	882-028 PCB Receptacle 92 100 ohm, rear panel mount, jam-nut receptacle. O-ring seals and epoxy potting for watertight sealing. Mates with 882-025.		8573-0041 SATA 3.0 Cordset 97 SATA 3.0 pre-wired plug-to-receptacle cordset with cable grommet backshell.
	882-029 90° PCB Receptacle 93 100 ohm, 90° rear panel mount, jam-nut receptacle. O-ring seals and epoxy potting for watertight sealing. Mates with 882-025.		

HDMI, DP, SATA and General High Speed Cables

	963-120 HDMI and DP Cable 98 Aerospace-grade 26 AWG, S/FTP construction with foil shielded data pairs. High performance cable offers three jacket material options. Meets HDMI 2.0 and DispPort 1.2 upto 5 meters.		963-033-26 S/FTP High-Speed Cable 99 26 AWG, aerospace-grade S/FTP construction, foil shielded data pairs and overall 40 AWG silver plated copper braid. Meets ANSI/TIA 568-C.2 Cat 6A requirement up to 213 ft/65 m
	963-127 HDMI and DP Cable 98 26 AWG, S/FTP construction, foil shielded data pairs and overall 36 AWG tin/copper. Jacket available in three material options. Meets HDMI 2.0 and DisplayPort 1.2 upto 5 meters.		963-133 SATA Cable 100 24 AWG, foil shielded data pairs and 38 AWG silver plated copper braid and overall blue FEP jacket.
	963-122 S/FTP High-Speed Cable 99 4 data pair aerospace-grade 26 AWG, S/FTP construction, foil shielded data pairs and overall 40 AWG silver plated copper braid. Three jacket material options.		

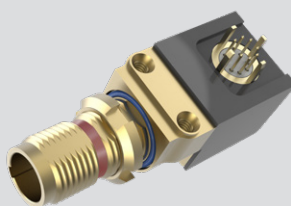
El Ochito® Ethernet, USB, and SATA Product Features

SUPERFLY DATALINK

The High-Speed Ultraminiature
Connector for Harsh Environments

- Ultra-small size
- Shielded Octaxial contacts
- Up to 10 Gbps per pair
- 40Gb Ethernet, SATA and SuperSpeed USB
- PCB or cable termination
- Threaded or quick-disconnect
- Environmentally protected
- Aerospace-grade performance

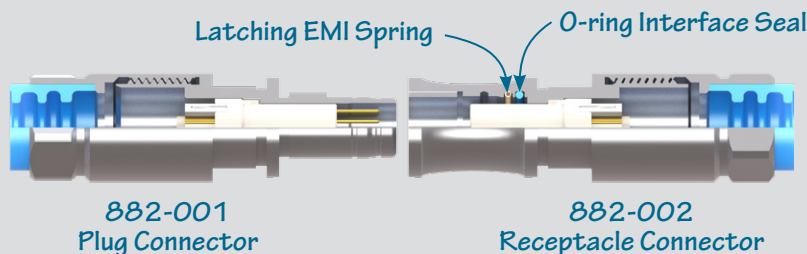
Panel Mount Connector



Panel mount SuperFly Datalink receptacles feature straight or right angle printed circuit board terminals. SuperFly Datalink board mount jacks are epoxy-sealed and are compatible with conformal coatings.

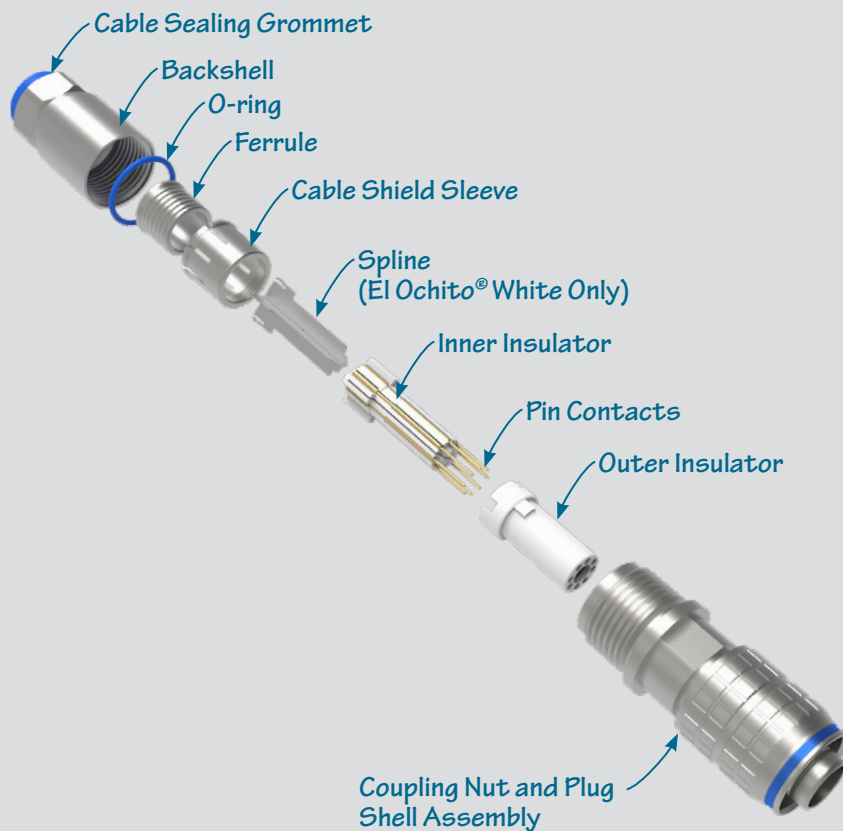
Reference

Push-Pull Quick-Disconnect



Push-pull SuperFly Datalink receptacle connectors feature a canted coil spring for secure mating and excellent EMI protection. A fluorosilicone O-ring provides watertight sealing when mated.

Threaded Coupling Cable Connector

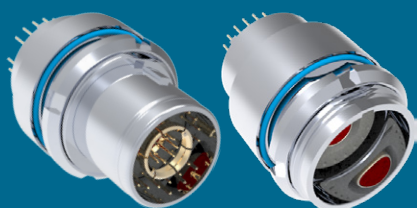


Cable connectors feature gold-plated crimp contacts, precision insulators, integral backshell, sealing grommet and machined shells. Cable connectors are available as unassembled kits or ready-to-use factory-terminated cordsets.

El Ochito® Red HDMI and DisplayPort Product Features

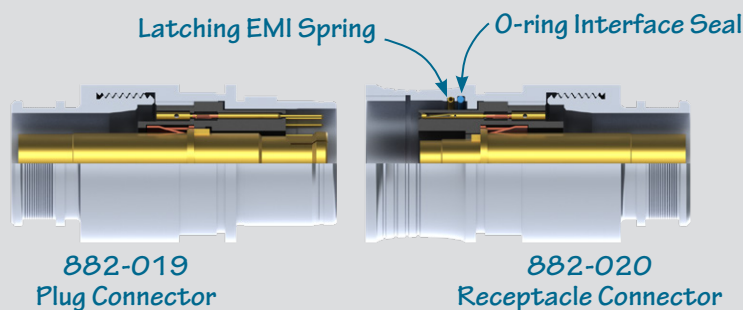
SUPERFLY DATALINK

The High-Speed Ultraminiature
Connector for Harsh Environments



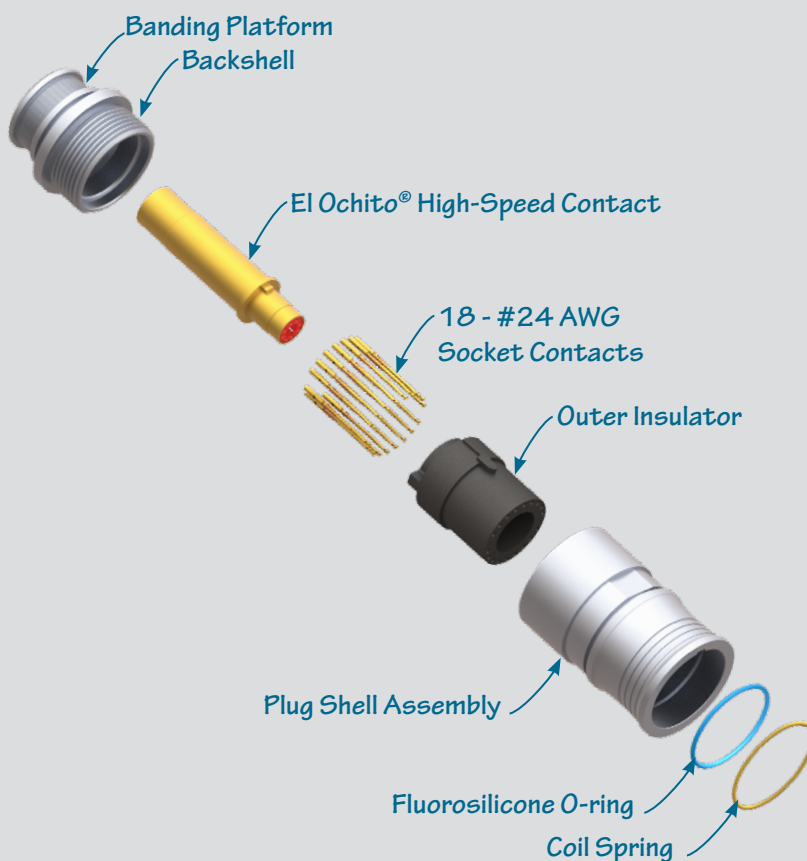
- Ultra-small size
- Shielded Octaxial contacts
- Combo arrangement for HDMI 2.0 and DisplayPort 1.2
- Up to 10 Gbps per pair
- PCB or cable termination
- Threaded or Quick-disconnect
- Environmentally protected
- Aerospace-grade performance

Cable connectors feature gold-plated crimp contacts, precision insulators, an integral backshell, and machined shells. Cable connectors are available as unassembled kits or ready-to-use factory-terminated cordsets.



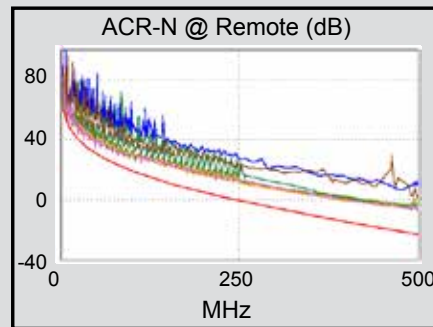
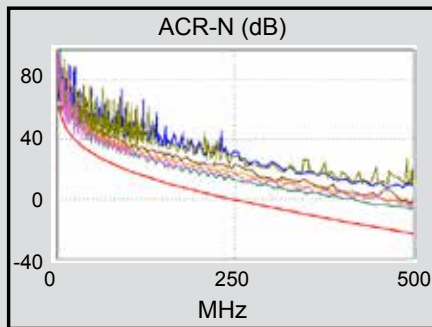
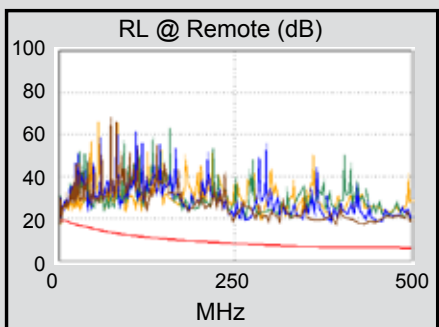
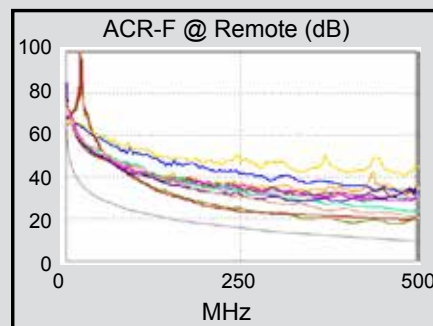
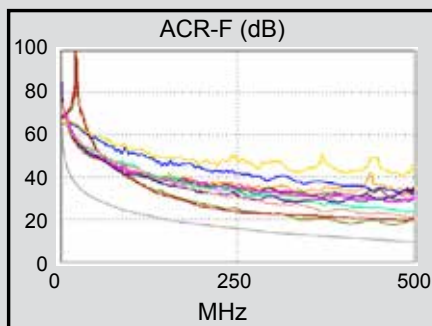
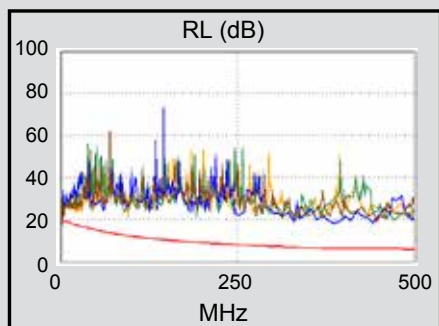
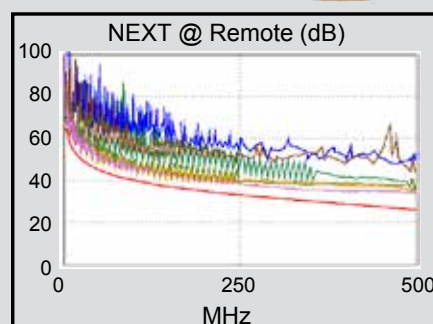
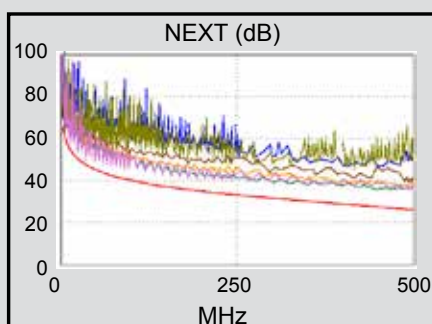
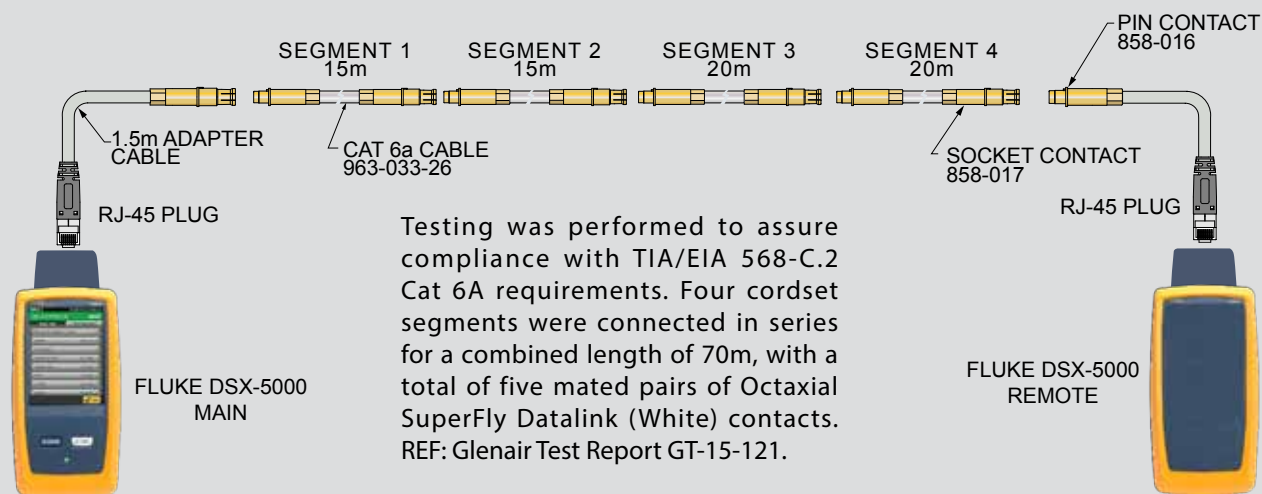
Push-pull SuperFly Datalink receptacle connectors feature a canted coil spring for secure mating and excellent EMI protection while fluorosilicone O-ring provides watertight sealing when mated.

Push-Pull HDMI and DisplayPort Cable Receptacle



Signal Integrity Data: SuperFly Datalink White for Ethernet

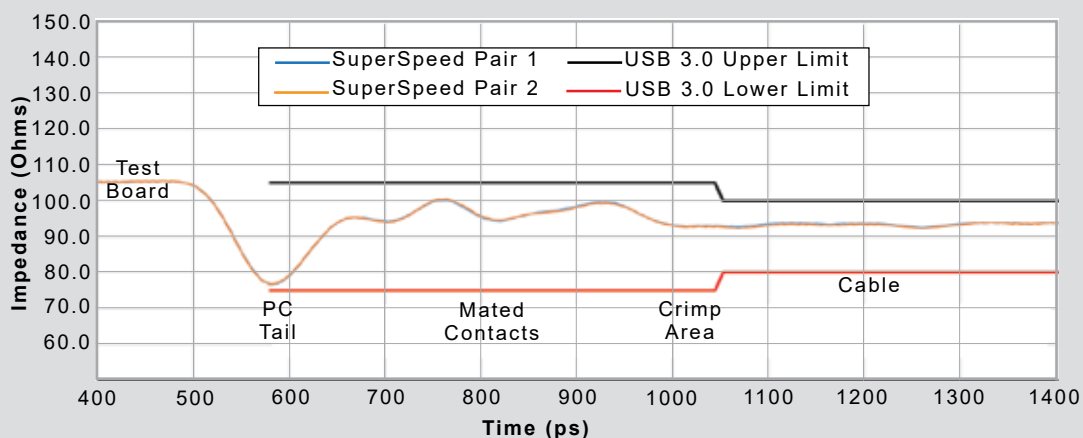
10GBASE-T CATEGORY 6A ETHERNET COMPLIANCE TESTING FOR SUPERFLY DATALINK WHITE



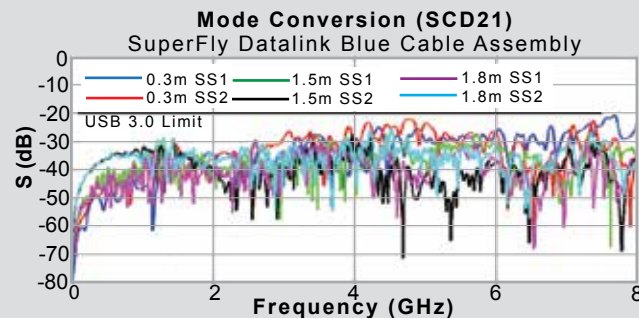
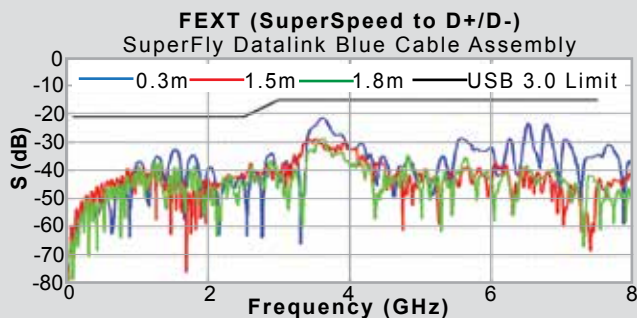
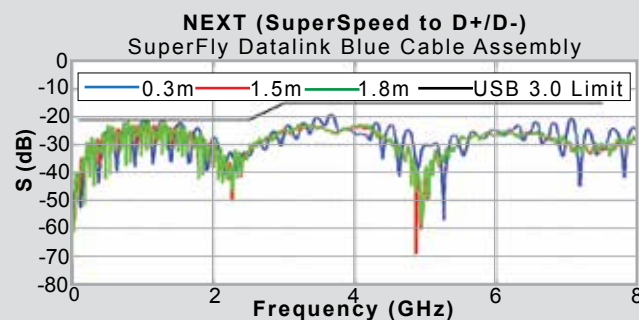
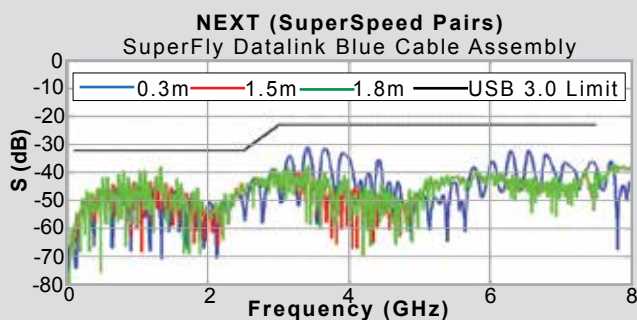
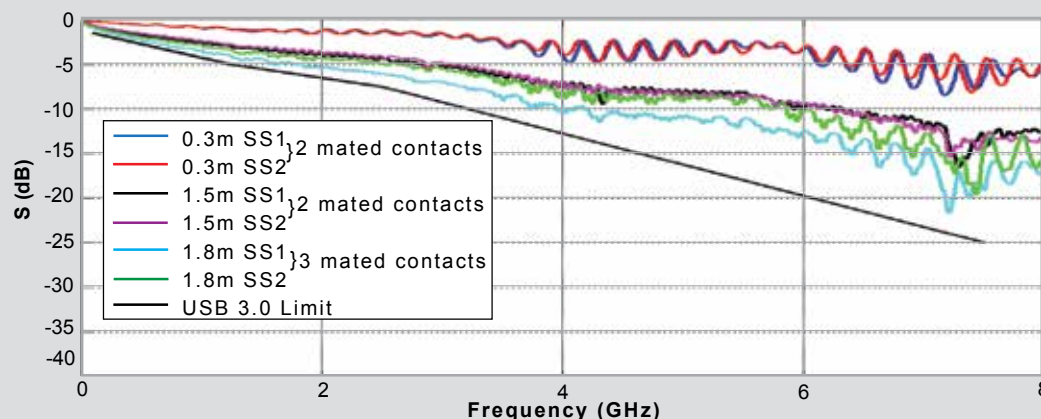
Signal Integrity Data: SuperFly Datalink Blue for USB 3.0

SUPERSPEED USB COMPLIANCE TESTING FOR SUPERFLY DATALINK BLUE

TDR Profile
50ps RT 20%-80%
SuperFly Datalink Blue
PC tail contact to
Cable Assembly



De-Embedded Insertion Loss
SuperFly Datalink Blue
Cable Assembly





Specifications

SuperFly Datalink Standard Materials		
DESCRIPTION	MATERIAL	FINISH
Contacts	Copper alloy	Gold 50 microinches minimum over nickel
Shell, coupling nut, backshell	Aluminum alloy or stainless steel	Code M: Electroless nickel Code MT: Nickel-PTFE Code ZK: Stainless steel-passivate
Insulators, PCB tray	High-grade rigid dielectric	None
Grommet	Fluorosilicone blend elastomer	None
O-rings	Fluorosilicone blend elastomer	None
Latching EMI spring	Stainless steel	Gold
Shield sleeve, ferrule	Copper alloy	Electroless nickel
Spline, SuperFly Datalink White	Copper alloy	Electroless nickel
Potting compound for 90° PCB	Epoxy	

SuperFly Datalink Performance Specifications														
DESCRIPTION	REQUIREMENT	PROCEDURE												
Operating temperature	-65° to +175°C													
Current rating	1.5 Amps													
Dielectric Withstanding Voltage (sea level)	500 Vrms	EIA-364-20												
Insulation resistance	5000 MΩ minimum	EIA-364-21												
Contact resistance, 25°C	55 millivolt maximum	EIA-364-06, 1.0 A test current, #24 AWG wire												
Shell-to-shell resistance	2.0 millivolt maximum	EIA-364-83												
Shielding effectiveness	<table><tr><td>Frequency</td><td>Attenuation dB</td></tr><tr><td>100</td><td>75</td></tr><tr><td>1000</td><td>50</td></tr><tr><td>3000</td><td>44</td></tr><tr><td>6000</td><td>38</td></tr><tr><td>10000</td><td>35</td></tr></table>	Frequency	Attenuation dB	100	75	1000	50	3000	44	6000	38	10000	35	EIA-364-66
Frequency	Attenuation dB													
100	75													
1000	50													
3000	44													
6000	38													
10000	35													
Ingress protection	IP67 rating	IEC-60529												
Vibration, sine	No discontinuity of greater than 1 microseconds, no cracking, breaking or loosening of parts, plug shall not become disengaged from receptacle.	EIA-364-28 Test Condition IV												
Vibration, random	No discontinuity of greater than 1 microseconds, no cracking, breaking or loosening of parts, plug shall not become disengaged from receptacle.	364-28 Test Condition V Letter I												
Mechanical shock	No discontinuity of greater than 1 microsecond, no cracking, breaking or loosening of parts, plug shall not become disengaged from receptacle.	EIA-364-27 Condition D												
Temperature cycling	No mechanical damage or loosening of parts. Following test, connector shall meet contact resistance, DWV, insulation resistance and shell-to-shell resistance requirements	EIA-364-32 Test Condition IV -65°C, +150°C .												
Humidity	No deterioration which will adversely affect the connector.	EIA-364-31												
Durability	2000 mating cycles													

Application Note: Sand and Dust Exposure

Unmated SuperFly® connectors should not be exposed to sand, dust or debris, which can be entrapped in the small contact cavities. Debris entrapment can cause excessive contact wear and possible failure. Unmated connectors should be fitted with dust caps or protective covers.

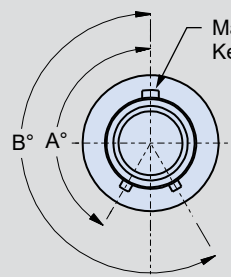


Modification Codes

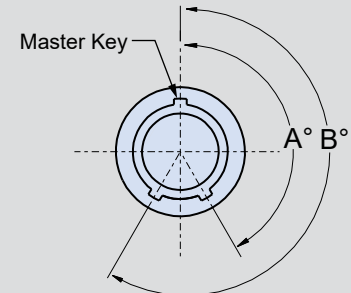
MODIFICATION CODE -686 POLARIZING OPTIONS

Standard SuperFly® connectors feature a single key and keyway for shell polarization. Optional alternate key positions are available for situations where multiple connectors are used. Add the suffix code shown below to the part number.
Example: 882-01-M-01-**686A**.

Alternate Key Positions			
Key Position	Suffix Code	A°	B°
A	686A	150°	210°
B	686B	75°	210°
C	686C	95°	230°
D	686D	140°	275°
E	686E	75°	275°
F	686F	95°	210°



Plug Key Positions



Receptacle Key Positions

MODIFICATION CODE -429 SPECIAL INSPECTION PER NASA EEE-INST-002

Modification code -429 is added to the end of a part number for special inspection per NASA EEE-INST-002.
Example: 882-01-M-01-**492B**.

NASA Screening Level and Available Outgassing Modification Codes

Screening Level	Screening Only	48 Hour Oven Bake 175° C	Thermal Vacuum Outgassing (10-6 Torr)	
			24 Hour 125° C	48 Hour 175° C
NASA, Level 1 – Highest Reliability	429B	429J	429C	
NASA, Level 2 – High Reliability	429	429K	429A	429AA
NASA, Level 3 – Std. Reliability	Use Standard Part Number		429L	

El Ochito® White

Component	Material	TML%	CVCM%	Test Reference
Inner & Outer Insulator	Fortron 1200 L1	0.07	<0.01	Glenair test at Pacific Testing Laboratories 2-22-2022 TR73209
O-Ring & Cable Grommet (Receptacles & Cable Connectors Only)	70/30 Fluorosilicone/Silicone Blend per GP578 Grade 40	0.12	0.02	Glenair test at Pacific Testing Laboratories 6-17-2020
Rear Insulator (PC Tail Only)	PTFE	0.01	0.00	NASA Outgassing Data for Selecting Spacecraft Materials
Epoxy (PC Tail Only)	Hysol EE-4215	0.55	<0.01	Glenair test at Pacific Testing Laboratories 7-25-2017 TR59899-3
Housing (Right Angle PCB Mount Only)	Ryton, 40% Glass Filled	0.09	0.00	NASA Outgassing Data for Selecting Spacecraft Materials
Flex Board (Right Angle PCB Mount Only)	Various	0.36	0.01	Glenair test at Pacific Testing Laboratories 6-1-2022 TR73949
Ink Marking	Markem-Imaje 7224 Series	0.41	0.04	NASA Outgassing Data for Selecting Spacecraft Materials



Modification Codes

MODIFICATION CODE -429 SPECIAL INSPECTION PER NASA EEE-INST-002 (CONTINUED)

El Ochito® Blue				
Component	Material	TML%	CVCm%	Test Reference
Inner & Outer Insulator	GPS169	0.20	<0.01	Glenair test at Pacific Testing Laboratories 7-19-2021 TR71364
O-Ring & Cable Grommet (Receptacles & Cable Connectors Only)	70/30 Fluorosilicone/Silicone Blend per GPS78 Grade 40	0.12	0.02	Glenair test at Pacific Testing Laboratories 6-17-2020
Rear Insulator (PC Tail Only)	PTFE	0.01	0.00	NASA Outgassing Data for Selecting Spacecraft Materials
Epoxy (PC Tail Only)	No.1 Vary Flex	0.29	0.01	NASA Outgassing Data for Selecting Spacecraft Materials
Housing (Right Angle PCB Mount Only)	Ryton, 40% Glass Filled	0.09	0.00	NASA Outgassing Data for Selecting Spacecraft Materials
Epoxy (Right Angle PCB Mount Only)	Hysol EE-4215	0.55	<0.01	Glenair test at Pacific Testing Laboratories 7-25-2017 TR59899-3
Flex Board (Right Angle PCB Mount Only)	Various	0.36	0.01	Glenair test at Pacific Testing Laboratories 6-1-2022 TR73949
Ink Marking	Markem-Imaje 7224 Series	0.41	0.04	NASA Outgassing Data for Selecting Spacecraft Materials

El Ochito® Red				
Component	Material	TML%	CVCm%	Test Reference
Inner & Outer Insulator	GPS173	0.20	0.01	Glenair test at Pacific Testing Laboratories 7-19-2021 TR71364
O-Ring & Cable Grommet (Receptacles & Cable Connectors Only)	70/30 Fluorosilicone/Silicone Blend per GPS78 Grade 40	0.12	0.02	Glenair test at Pacific Testing Laboratories 6-17-2020
Rear Insulator (PC Tail Only)	PTFE	0.01	0.00	NASA Outgassing Data for Selecting Spacecraft Materials
Epoxy (PC Tail Only)	No.1 Vary Flex	0.29	0.01	NASA Outgassing Data for Selecting Spacecraft Materials
Housing (Right Angle PCB Mount Only)	Ryton, 40% Glass Filled	0.09	0.00	NASA Outgassing Data for Selecting Spacecraft Materials
Epoxy (Right Angle PCB Mount Only)	Hysol EE-4215	0.55	<0.01	Glenair test at Pacific Testing Laboratories 7-25-2017 TR59899-3
Flex Board (Right Angle PCB Mount Only)	Various	0.36	0.01	Glenair test at Pacific Testing Laboratories 6-1-2022 TR73949
Ink Marking	Markem-Imaje 7224 Series	0.41	0.04	NASA Outgassing Data for Selecting Spacecraft Materials

882-001 Cable Plug, Push-Pull QDC Coupling, 40GbE



SIZE AND WEIGHT SAVING

- Smallest 40GbE aerospace-grade connector
- Integral strain relief and cable seal
- High density contacts

HARSH ENVIRONMENT

- EMI protection
- Shock and vibration
- Corrosion resistance

Table I: Cable Accommodated

Dash No.	Wire Size (AWG)	Cable Part No.	Cable Rating
-01	26	963-003-26	Cat 6A 10 GBase-T
-02	26	963-033-26	
-03	24	963-037-24	
-04	24	963-033-24	
-05	24	963-003-24	
-06	28	963-033-28	Cat 8 40 GBase-T
-07	26	963-132-26	
-08	24	963-132-24	
-09	26	963-135-26	

Specifications

- ❑ Operating temp.: -65° to +175°C
- ❑ Impedance: 100 ohms
- ❑ DWV: 500 Vrms unmated
- ❑ Current Rating: 1.5 A
- ❑ IR: 1000 MΩ min.
- ❑ Durability: 2000 mating cycles
- ❑ Ingress protection: IP67

Construction

- ❑ Shell, backshell: aluminum alloy or stainless steel
- ❑ Insulators: high-grade rigid dielectric
- ❑ Contacts: copper alloy, 50 microinches gold over nickel plating
- ❑ Grommet: fluorosilicone
- ❑ O-ring: fluorosilicone
- ❑ Shield sleeve, ferrule, spline: copper alloy, electroless nickel plated

Contact Crimp Tools

Crimp Tool



809-015
(M22520/2-01)

Positioner for Hand Crimp Tool



859-101
(K1906)

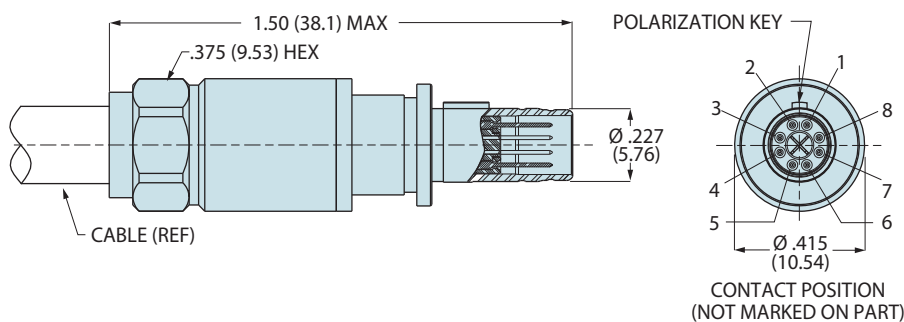
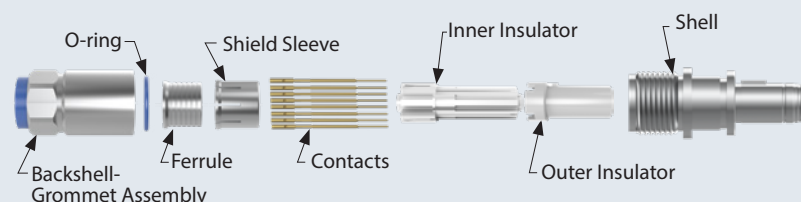
40GbE. Ultraminiature. High performance. 882-001 Superfly Datalink connectors have one, El Ochito® octaxial contact housing eight pin contacts. Compatible with #24 to #28 AWG Category 6A and 8 Ethernet cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool (purchased separately). 882-001 plugs feature push-pull mating and demating. Braided cable shield terminates to connector with supplied bushing. **Mates to 882-002, -005, -008, -038 receptacles.**

How To Order Cable Plug

Sample Part Number	882-001	-M	-01
Series	882-001 = Cable Plug		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01 thru -09; Follow Assembly Instruction A880001-(dash no)		

882-001 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.



882-002 Cable Receptacle, Push-Pull QDC Coupling, 40GbE



SIZE AND WEIGHT SAVING

- Smallest 40GbE aerospace-grade connector
- Integral strain relief and cable seal
- High density contacts

HARSH ENVIRONMENT

- EMI protection
- Shock and vibration
- Corrosion resistance

Table I: Cable Accommodated

Dash No.	Wire Size (AWG)	Cable Part No.	Cable Rating
-01	26	963-003-26	Cat 6A 10 GBase-T
-02	26	963-033-26	
-03	24	963-037-24	
-04	24	963-033-24	
-05	24	963-003-24	
-06	28	963-033-28	Cat 8 40 GBase-T
-07	26	963-132-26	
-08	24	963-132-24	
-09	26	963-135-26	

Specifications

- Operating temp.: -65° to +175°C
- Impedance: 100 ohms
- DWV: 500 Vrms unmated
- Current Rating: 1.5 A
- IR: 1000 MΩ min.
- Durability: 2000 mating cycles
- Ingress protection: IP67

Construction

- Shell, backshell: aluminum alloy or stainless steel
- Insulators: high-grade rigid dielectric
- Contacts: copper alloy, 50 microinches gold over nickel plating
- Grommet: fluorosilicone
- O-rings: fluorosilicone
- EMI spring: stainless steel, gold plated
- Shield sleeve, ferrule, spline: copper alloy, electroless nickel plated

Contact Crimp Tools

Hand Crimp Tool



809-015
(M22520/2-01)

Positioner for Hand Crimp Tool



859-101
(K1906)

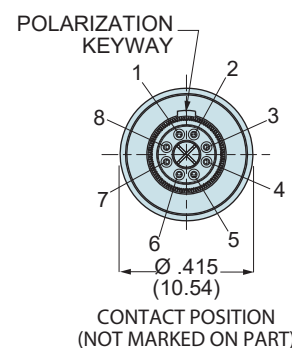
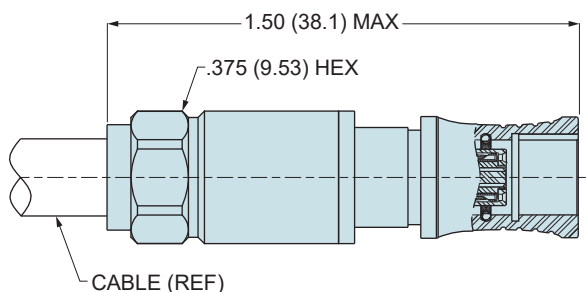
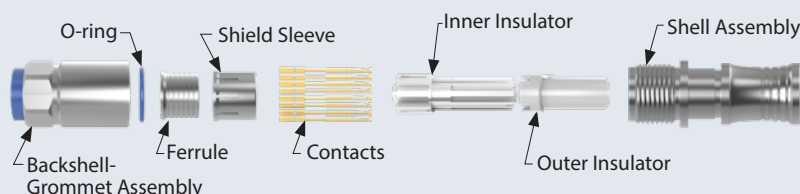
40GbE. Ultraminiature. High performance. 882-002 SuperFly Datalink connectors have one, El Ochito® octaxial contact housing eight socket contacts. Compatible with shielded flight-grade Cat 6A and 8 size #24 to #28 AWG Ethernet cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool (purchased separately). Connector interface features EMI spring for low shell-to-shell resistance. Fluorosilicone O-ring for watertight seal. Braided cable shield terminates to connector with supplied bushing. **Mates to 882-001, -017, -032, -035 plug.**

How To Order Cable Receptacle

Sample Part Number	882-002	-M	-01
Series	882-002 = Cable Receptacle		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01 thru -09; Follow Assembly Instruction A880001-(dash no)		

882-002 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.



882-035 Panel Mount Plug, Push-Pull QDC Coupling, 40GbE

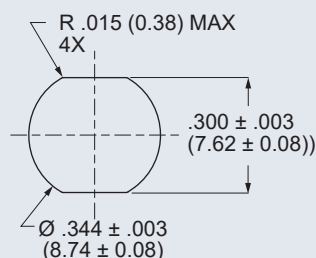


40GbE. Ultraminiature. High performance. 882-035 SuperFly Datalink connectors have one, El Ochoito® octaxial contact housing eight pin contacts. Compatible with #24 to #28 AWG Cat 6A and Cat 8 Ethernet cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool (purchased separately). 882-035 plugs feature push-pull mating and demating. Braided cable shield terminates to connector with supplied bushing. **Mates to 882-002, -005, -008, -038 receptacles.**

How To Order Panel Mount Plug

Sample Part Number	882-035	-M	-01
Series	882-035 = Panel Mount Plug		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01 thru -09; Follow Assembly Instruction A880001-(dash no)		

Recommended Panel Cutout



882-035 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.

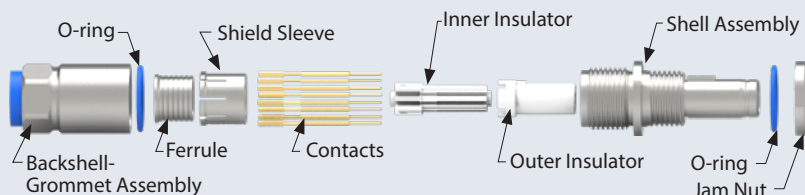
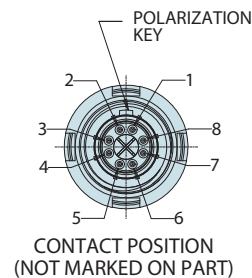
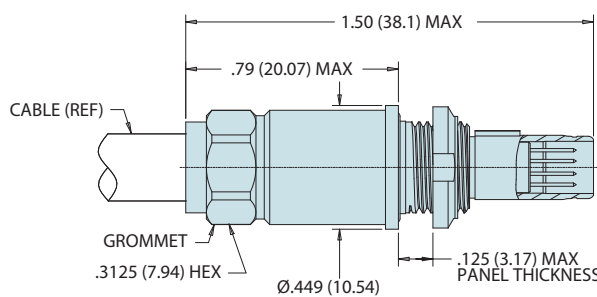


Table I: Cable Accommodated

Dash No.	Cable Part No.	Wire Size (AWG)	Cable Rating
-01	963-003-26	26	Cat 6A 10 GBase-T
-02	963-033-26	26	
-03	963-037-24	24	
-04	963-033-24	24	
-05	963-003-24	24	
-06	963-033-28	28	Cat 8 40 GBase-T
-07	963-132-26	26	
-08	963-132-24	24	
-09	963-135-26	26	



Specifications

- Operating temp.: -65° to +175°C
- Impedance: 100 ohms
- DWV: 500 Vrms unmated
- Current Rating: 1.5 A
- IR: 1000 MΩ min.
- Durability: 2000 mating cycles
- Ingress protection: IP67

Construction

- Shell, backshell: aluminum alloy or stainless steel
- Insulators: high-grade rigid dielectric
- Contacts: copper alloy, 50 microinches gold over nickel plating
- Grommet: fluorosilicone
- O-ring: fluorosilicone
- Shield sleeve, ferrule, spline: copper alloy, electroless nickel plated

Contact Crimp Tools

Crimp Tool



809-015
(M22520/2-01)

Positioner for Hand Crimp Tool



859-101
(K1906)

882-038 Panel Mount Receptacle, Push-Pull QDC Coupling, 40GbE



40GbE. Ultraminiature. High performance. 882-038 SuperFly Datalink connectors have one, El Ochito® octaxial contact housing eight socket contacts. Compatible with shielded flight-grade Cat 6A and 8, #24 to #28 AWG Ethernet cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool (purchased separately). Connector interface features EMI spring and fluorosilicone O-ring for watertight seal. Braided cable shield terminates to connector with supplied bushing. **Mates to 882-001, -017, -032, -035 plug.**

Recommended Panel Cutout

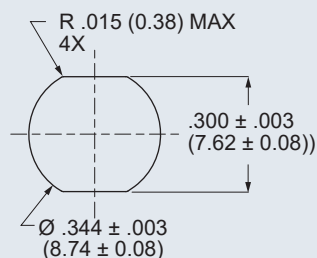


Table I: Cable Accommodated

Dash No.	Cable Part No.	Wire Size (AWG)	Cable Rating
-01	963-003-26	26	Cat 6A 10 GBase-T
-02	963-033-26	26	
-03	963-037-24	24	
-04	963-033-24	24	
-05	963-003-24	24	
-06	963-033-28	28	Cat 8 40 GBase-T
-07	963-132-26	26	
-08	963-132-24	24	
-09	963-135-26	26	

Specifications

- Operating temp.: -65° to +175°C
- Impedance: 100 ohms
- DWV: 500 Vrms unmated
- Current Rating: 1.5 A
- IR: 1000 MΩ min.
- Durability: 2000 mating cycles
- Ingress protection: IP67

Construction

- Shell, backshell: aluminum alloy or stainless steel
- Insulators: high-grade rigid dielectric
- Contacts: copper alloy, 50 microinches gold over nickel plating
- Grommet: fluorosilicone
- O-rings: fluorosilicone
- EMI spring: stainless steel, gold plated
- Shield sleeve, ferrule, spline: copper alloy, electroless nickel plated

Contact Crimp Tools

Hand Crimp Tool



809-015
(M22520/2-01)

Positioner for Hand Crimp Tool



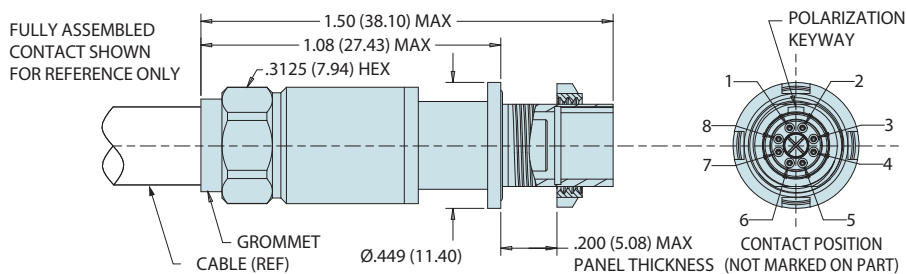
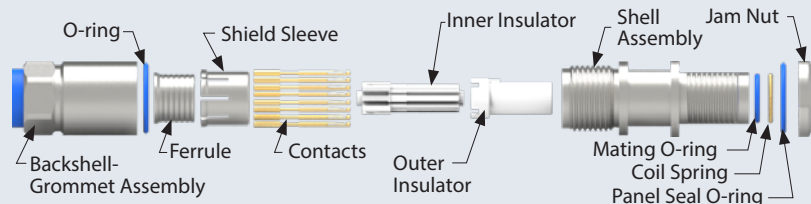
859-101
(K1906)

How To Order Panel Mount Receptacle

Sample Part Number	882-038	-M	-01
Series	882-038 = Panel Mount Receptacle		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01 thru -09; Follow Assembly Instruction A880001-(dash no)		

882-038 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.



882-017 PCB Plug, Push-Pull QDC Coupling, 40GbE



40GbE. Ultraminiature. Rear panel jam-nut mount. PCB terminals.

882-017 SuperFly Datalink connectors have one, El Ochoito® octaxial contact housing eight pin contacts. Attach connector to .100 (2.54) maximum thickness panel with spanner nut. PC tail contacts are gold plated or solder dipped in 63/37 tin-lead. Contacts are epoxy-sealed and are non-removable. Fluorosilicone O-ring for watertight seal. *Mates to 882-002, -005, -008, -038.*

SIZE AND WEIGHT SAVING

- Smallest 40Gb Ethernet aerospace-grade connector

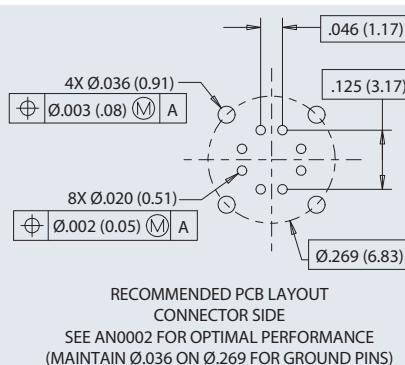
FAST MATING

- Push-to-mate, pull to de-mate
- 5 pounds breakaway force

HARSH ENVIRONMENT

- EMI protection
- Water ingress
- Shock and vibration

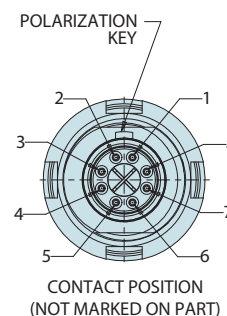
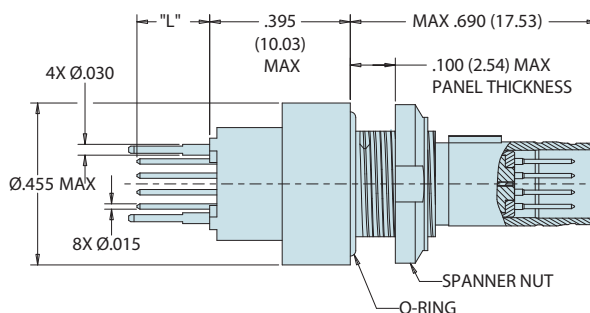
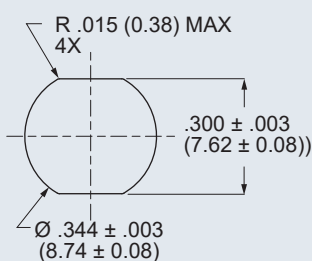
Recommended PC Board Layout



How To Order PCB Plug

Sample Part Number	882-017	-M	G	-.125
Product	882-017 = Panel Mount, PCB Plug			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
PC Tail Finish	S = Solder dip, 63/37 tin-lead G = Gold			
PC Tail Length	.080 = .080 in. (2.03 mm.) .125 = .125 in. (3.18 mm.) .175 = .175 in. (4.45 mm.) .200 = .200 in. (5.08 mm.)			

Recommended Panel Cutout



Specifications

- Operating temp.: -65° to +175°C
- Impedance: 100 ohms
- DWV: 500 Vrms unmated
- Current Rating: 1.5 A
- IR: 1000 MΩ min.
- Durability: 2000 mating cycles
- Ingress protection: IP67

Construction

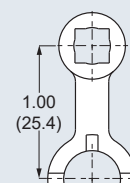
- Shell, jam-nut: aluminum alloy or SST
- Insulators: high-grade rigid dielectric
- Contacts: copper alloy, 50 microinches gold over nickel plating
- O-rings: fluorosilicone
- Spline: copper alloy, electroless nickel plated
- Potting: epoxy

Spanner Nut Tightening Tool

Nickel-plated tool steel, ¼" sq. drive
13 - 18 in.-lbs. recommended torque



600-202-E



El Ochoito® White

882-005 PC Tail Panel Receptacle, Push-Pull Coupling, 40GbE



40GbE. Ultraminiature. Rear panel jam-nut mount. PCB terminals.

882-005 SuperFly Datalink connectors have one, El Ochito® octaxial contact housing eight socket contacts. Attach to .100 (2.54) maximum thickness panel with spanner nut. PC tail contacts are gold plated or solder dipped in 63/37 tin-lead. Contacts are epoxy-sealed and are non-removable. EMI spring for low shell-to-shell resistance. Fluorosilicone O-ring for watertight seal. *Mates to 882-001, -017, -032, -035 plugs.*

SIZE AND WEIGHT SAVING

- Smallest 40Gb Ethernet aerospace-grade connector

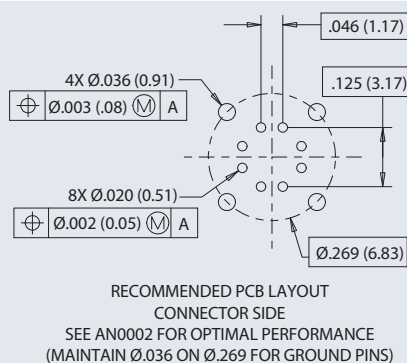
FAST MATING

- Push-to-mate, pull to de-mate
- 5 pounds breakaway force

HARSH ENVIRONMENT

- EMI protection
- Water ingress
- Shock and vibration

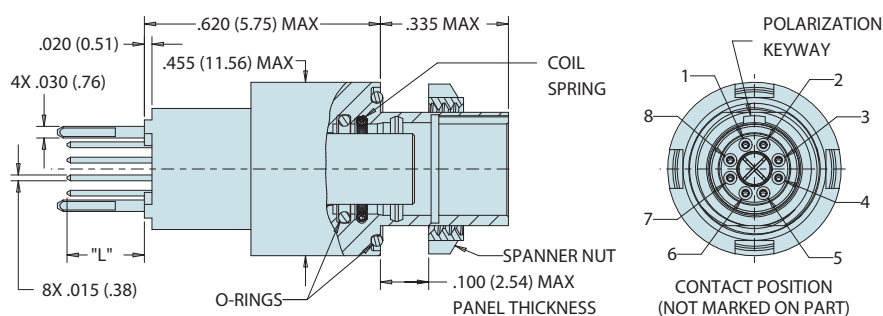
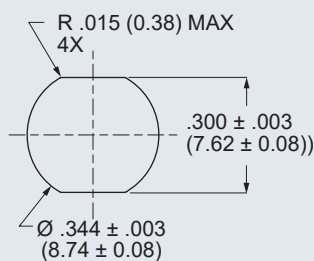
Recommended PC Board Layout



How To Order PC Tail Panel Receptacle

Sample Part Number	882-005	-M	G	-.125
Product	882-005 = Panel Mount PCB Receptacle			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
PC Tail Finish	S = Solder dip, 63/37 tin-lead G = Gold			
PC Tail Length	.080 = .080" (2.03 mm.) .125 = .125" (3.18 mm.) .175 = .175" (4.45 mm.) .200 = .200" (5.08 mm.)			

Recommended Panel Cutout



Specifications

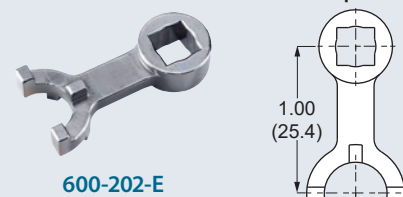
- Operating temp.: -65° to +175°C
- Impedance: 100 ohms
- DWV: 500 Vrms unmated
- Current Rating: 1.5 A
- IR: 1000 MΩ min.
- Durability: 2000 mating cycles
- Ingress protection: IP67

Construction

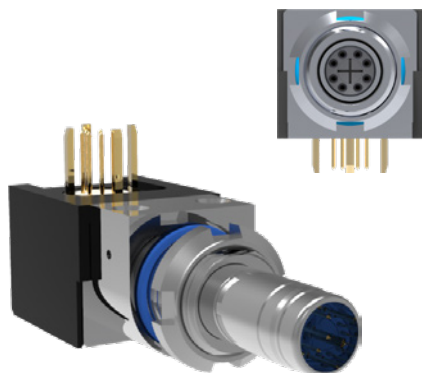
- Shell, jam-nut: aluminum alloy or SST
- Insulators: high-grade rigid dielectric
- Contacts: copper alloy, 50 microinches gold over nickel plating
- O-rings: fluorosilicone
- EMI spring: stainless steel, gold plated
- Spline: copper alloy, electroless nickel plated
- Potting: epoxy

Spanner Nut Tightening Tool

Nickel-plated tool steel, 1/4" sq. drive
13 - 18 in.-lbs. recommended torque



882-032 90° PC Tail Panel Mount Plug, Push-Pull Coupling, 10GbE



10GbE. Ultraminiature. Jam-nut, rear panel mount. PCB terminals.

882-032 SuperFly Datalink connectors have one, El Ochoito® octaxial contact housing eight pin contacts. Attach to .100 (2.54) max. thickness panel with spanner nut. PC tails are gold plated or solder dipped in 63/37 tin-lead. Epoxy-sealed, non-removable contacts. EMI spring and fluorosilicone O-ring for watertight seal *Mates to 882-002, -005, -008, -038.*

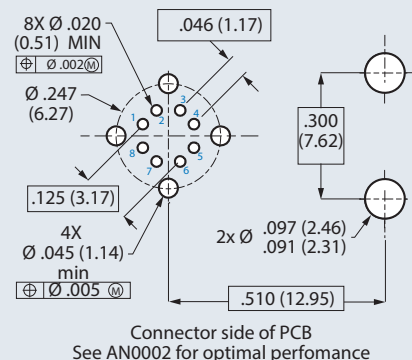
SIZE AND WEIGHT SAVING

- Smallest 10Gb Ethernet aerospace-grade connector

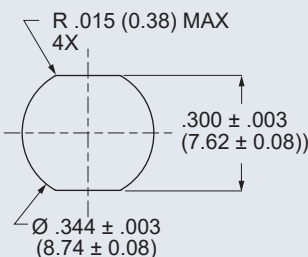
HARSH ENVIRONMENT

- EMI protection
- Water ingress
- Shock and vibration

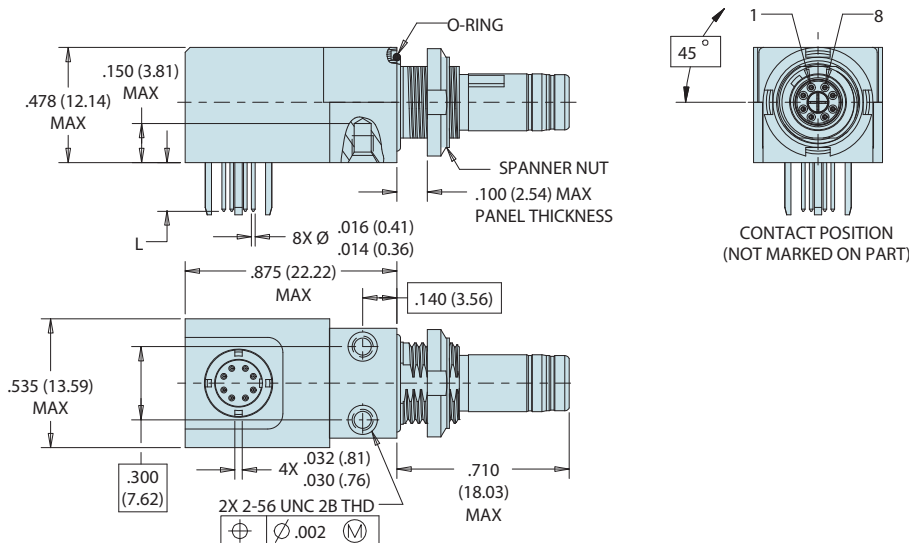
Recommended PC Board Layout



Recommended Panel Cutout



How To Order PC Tail Panel Mount Plug				
Sample Part Number	882-032	-M	G	-.200
Product	882-032 = Panel Mount PCB Plug			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
PC Tail Finish	S = Solder dip, 63/37 tin-lead G = Gold			
PC Tail Length	.200 = .200" (5.08 mm.)			



Specifications

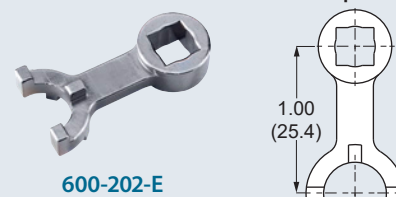
- ❑ Operating temp.: -65° to +175°C
- ❑ Impedance: 100 ohms
- ❑ DWV: 100 Vrms unmated
- ❑ Current Rating: 1.5 A
- ❑ IR: 100 MΩ min. @ 150 Vdc
- ❑ Durability: 2000 mating cycles
- ❑ Ingress protection: IP67

Construction

- ❑ Shell, jam-nut: aluminum alloy or SST
- ❑ Insulators: high-grade rigid dielectric
- ❑ Contacts: copper alloy, 50 microinches gold over nickel plating
- ❑ O-rings: fluorosilicone
- ❑ Spline: copper alloy, electroless nickel plated
- ❑ Potting: epoxy

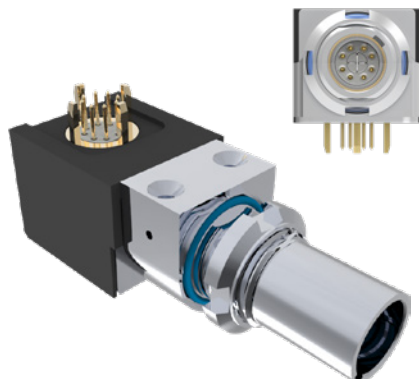
Spanner Nut Tightening Tool

Nickel-plated tool steel, 1/4" sq. drive
13 - 18 in.-lbs. recommended torque



El Ochoito® White

882-008 90° PC Tail Panel Mount Receptacle, Push-Pull Coupling, 10GbE



10GbE. Ultraminiature. Rear panel jam-nut mount. 90° PCB terminals.

882-008 SuperFly Datalink connectors have one, El Ochito® octaxial contact housing eight socket contacts. Attach to .100 (2.54) max thickness panel with spanner nut. Gold plated or 63/37 tin-lead PC tail contacts. Contacts are epoxy-sealed and non-removable. Gold-plated EMI interface spring, fluorosilicone O-rings for water-tight sealing. *Mates to 882-001, -017, -032, -035 receptacles.*

SIZE AND WEIGHT SAVING

- Smallest 10Gb Ethernet aerospace-grade connector

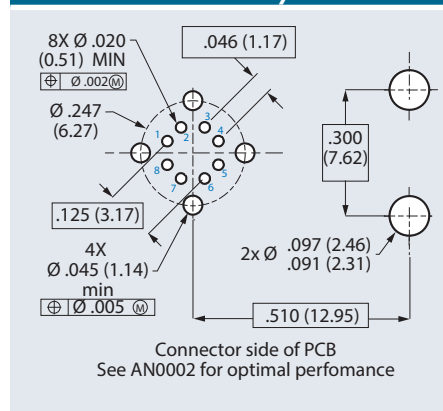
FAST ASSEMBLY

- Pre-tinned PC tail contacts
- Epoxy-sealed terminals

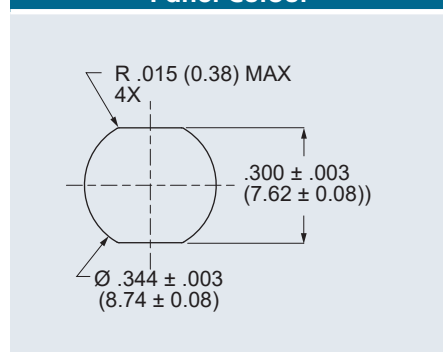
HARSH ENVIRONMENT

- EMI protection
- Water Ingress
- Shock and vibration

PC Board Layout

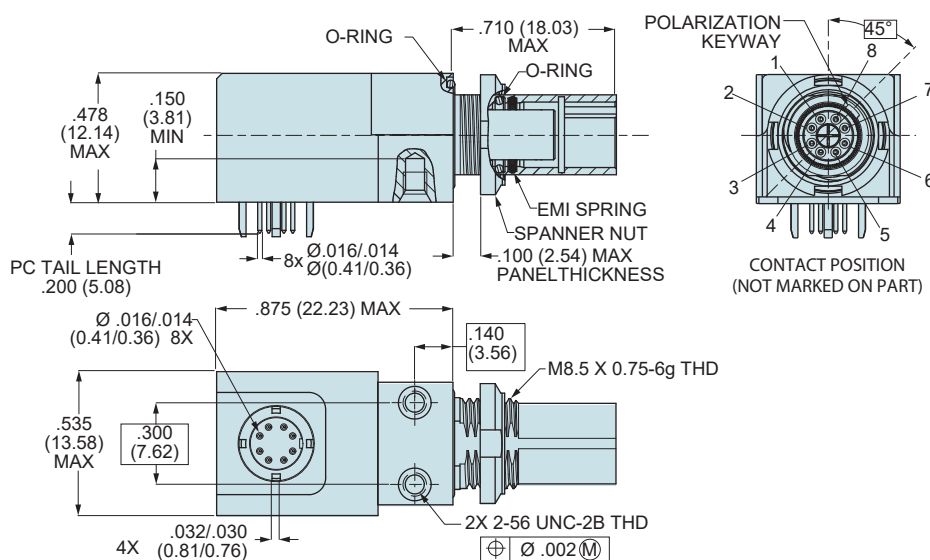


Panel Cutout



How To Order PC Tail Panel Mount Receptacle

Sample Part Number	882-008	-M	G	-.200
Product	882-008 = SuperFly Datalink Panel Mount PCB Receptacle			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
PC Tail Finish	S = Solder dip, 63/37 tin-lead G = Gold			
PC Tail Length	.200 = .200" (5.08 mm.)			



Specifications

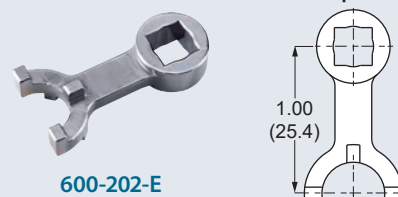
- Operating temp.: -65° to +175°C
- Impedance: 100 ohms
- DWV: 100 Vrms unmated
- Current Rating: 1.5 A
- IR: 100 MΩ min. @ 150 Vdc
- Durability: 2000 mating cycles
- Ingress protection: IP67

Construction

- Shell, jam-nut: aluminum alloy or SST
- Insulators and tray: high-grade rigid dielectric
- Contacts: copper alloy, 50 microinches gold over nickel plating
- O-rings: fluorosilicone
- EMI spring: stainless steel, gold plated
- Spline: copper alloy, nickel plated
- Potting: epoxy

Spanner Nut Tightening Tool

Nickel-plated tool steel, 1/4" sq. drive
13 - 18 in.-lbs. recommended torque



8571-0007 Pre-Wired QDC Cordset, Single-Ended, 10GbE



Lower installed cost. Save assembly time and cost with pre-wired SuperFly Datalink "White" assemblies for 10Gb Ethernet. These single-ended push-pull cordsets are terminated to Category 6A flight-grade shielded cable. Cable options include single or double shielding, 24 AWG or 26 AWG stranded conductors. Series 882 QDC connectors are designed for demanding aerospace environments.

SIZE AND WEIGHT SAVING

- <1/2 inch (12.7 mm.) diameter
- Push-pull quick-disconnect

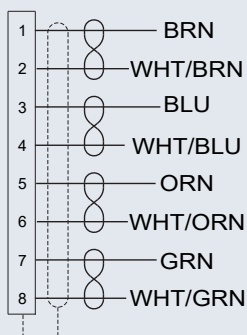
LOWER INSTALLED COST

- Factory-terminated SuperFly connector

HARSH ENVIRONMENT

- AS6070 type aerospace grade Category 6A cable

Wiring Diagram



Construction

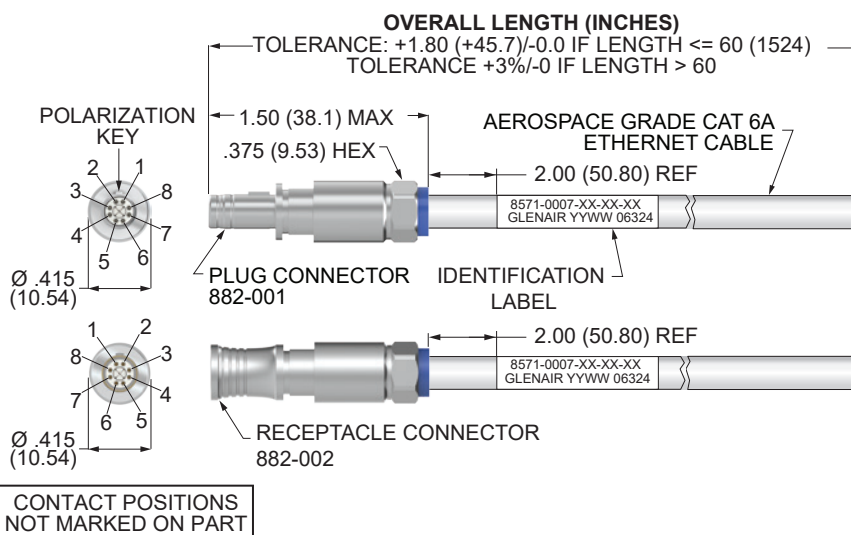
- ❑ **Shell, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommets:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **Shield sleeve, ferrule, spline:** copper alloy, electroless nickel plated
- ❑ **Cable:** aerospace-grade fluoropolymer per AS6070.

Specifications

- ❑ **Operating temp.:** -65° to +175°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 500 Vrms unmatd
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 200 MΩ min.
- ❑ **Durability:** 2000 mating cycles

How To Order Pre-Wired QDC Cordset, Single-Ended

Sample Part Number	8571-0007	-MT	-05	-60
Product	8571-0007 = Pre-wired SuperFly Datalink, QDC, Single-ended Cordset			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Order Code Connector Type, Wire Size and Cable Type	01 = Plug, #26 AWG, S/UTP* P/N 963-003-26 02 = Receptacle, #26 AWG, S/UTP* P/N 963-003-26 03 = Plug, #26 AWG, S/FTP** P/N 963-033-26 04 = Receptacle, #26 AWG, S/FTP** P/N 963-033-26 05 = Plug, #24 AWG, S/UTP* P/N 963-037-24 06 = Receptacle, #24 AWG, S/UTP* P/N 963-037-24 07 = Plug, #24 AWG, S/FTP** P/N 963-033-24 08 = Receptacle, #24 AWG, S/FTP** P/N 963-033-24 *S/UTP cable has overall braid shield **S/FTP cable has overall braid shield plus foil wrap on pairs			
Overall Length	Length in Inches (12 inch minimum)			



El Ochito® White

8571-0008 Pre-Wired QDC Cordset, Plug-to-Receptacle, 10GbE



Lower installed cost. 100% tested. Save assembly time and cost with pre-wired SuperFly Datalink "White" assemblies for 10Gb Ethernet. These back-to-back push-pull cordsets are terminated to Category 6A flight-grade shielded cable. Two cable constructions are available: S/UTP (unshielded pairs with overall braid shield) or S/FTP (foil shielded pairs with overall braid). 24 AWG or 26 AWG stranded conductors. Series 882 QDC connectors are designed for demanding aerospace environments.

SIZE AND WEIGHT SAVING

- <1/2 inch (12.7 mm.) diameter
- Push-pull quick-disconnect

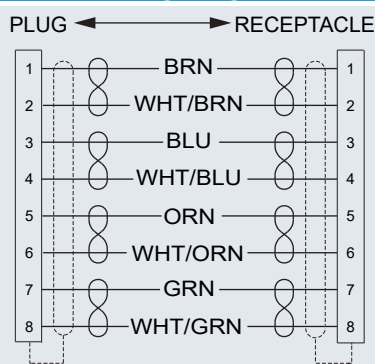
LOWER INSTALLED COST

- Factory-terminated
- 100% tested

HARSH ENVIRONMENT

- AS6070 type aerospace grade Category 6A cable

Wiring Diagram



How To Order SuperFly Datalink Plug-to-Receptacle Cordset

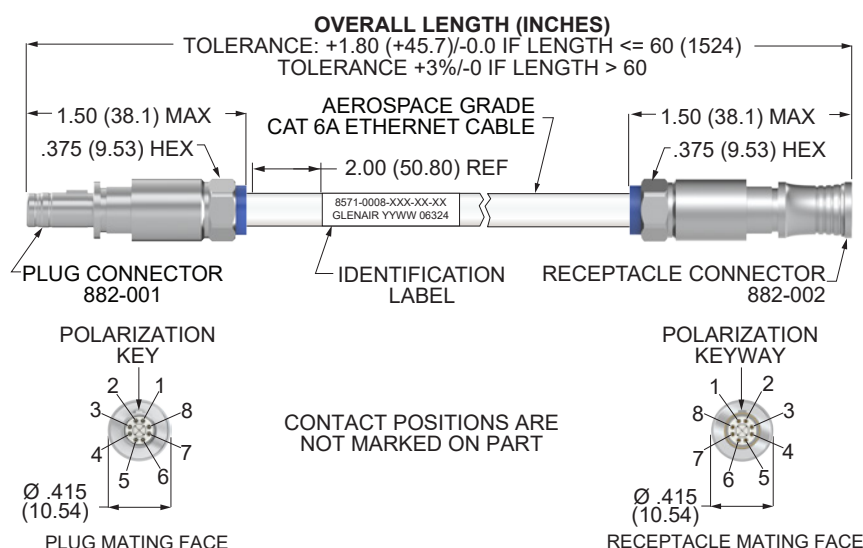
Sample Part Number	8571-0008	-ZMT	-03	-36
Product	8571-0008 = SuperFly Datalink QDC Plug-to-Receptacle Cordset			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Cable Type	01 = Category 6A, #26 AWG, S/UTP* P/N 963-003-26 02 = Category 6A, #26 AWG, S/FTP** P/N 963-033-26 03 = Category 6A, #24 AWG, S/UTP* P/N 963-037-24 04 = Category 6A, #24 AWG, S/FTP** P/N 963-033-24 *S/UTP cable has overall braid shield **S/FTP cable has overall braid shield plus foil wrap on pairs			
Overall Length	Length in Inches (12 inch minimum)			

Construction

- ❑ **Shell, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommets:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **Shield sleeve, ferrule, spline:** copper alloy, electroless nickel plated
- ❑ **Cable:** aerospace-grade fluoropolymer per AS6070. Cable construction details are shown on following pages.

Specifications

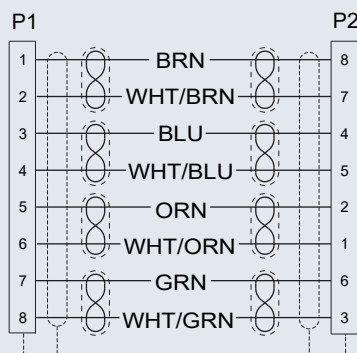
- ❑ **Operating temp.:** -65° to +175°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 500 Vrms unmated
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 200 MΩ min.
- ❑ **Durability:** 2000 mating cycles



8571-0009 QDC Patch Cord, SuperFly to RJ45, 10GbE, Commercial



Wiring Diagram



Specifications

- Operating temp.: -10 to +60°C
- Impedance: 100 ohms
- DWV: 500 Vrms unmatd
- Current Rating: 1.5 A
- IR: 200 MΩ min.

Cable Construction

- 4 pair, Cat 6A, 100 ohm
- Conductors: 26 AWG 7/34 tinned copper
- Shield: foil, TC braid
- Jacket: low smoke zero halogen, black

SuperFly Datalink Construction

- Shell, backshell: aluminum alloy or SST
- Insulators: high-grade rigid dielectric
- Contacts: copper alloy, 50 microinches gold over nickel plating
- Grommet, O-ring : fluorosilicone
- Shield sleeve, ferrule, spline: copper alloy, electroless nickel plated

RJ45 Construction

- Housing: polycarbonate, UL94V-0
- Contacts: copper alloy, 50 microinches gold in contact area
- Boot : thermoplastic, UL94V-0
- EMI shield: 360°

Commercial grade cable. Shielded. Cat 6A. LSZH jacket. 100% tested. Save assembly time and cost with pre-wired patch cords. One end is Series 882 SuperFly Datalink push-pull QDC connector. Other end is shielded RJ45 plug with snagless strain relief boot. Commercial grade 26 AWG stranded cable is RoHS, lead-free, halogen-free, PVC free. Data pairs have individual foil shields, overall shield is tinned copper braid.

SIZE AND WEIGHT SAVING

- <1/2 inch (12.7 mm.) diameter
- Push-pull quick-disconnect

LOWER INSTALLED COST

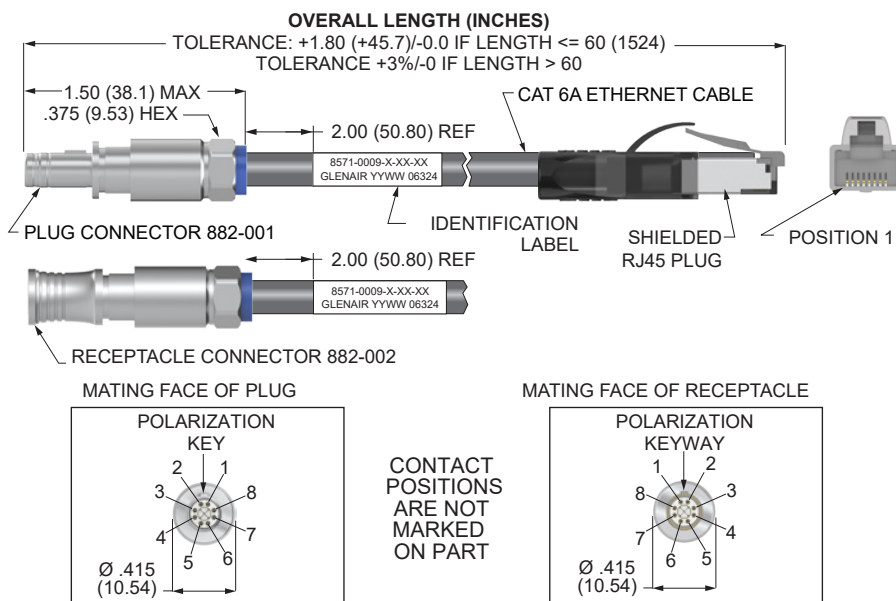
- Factory-terminated
- 100% tested

COMMERCIAL GRADE

- LSZH cable jacket

How To Order SuperFly Datalink to RJ45 Plug Patch Cord

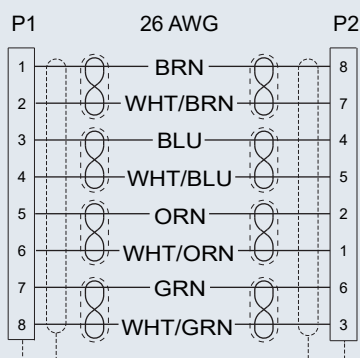
Sample Part Number	8571-0009	-MT	-02	-36
Product	8571-0009 = SuperFly Datalink, QDC Connector to RJ45 Cordset			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
SuperFly Datalink Connector Type	01 = Plug 882-001 02 = Receptacle 882-002			
Overall Length	Length in Inches (12 inch minimum)			



8571-0010 QDC Patch Cord, SuperFly to RJ45, 10GbE, Flight Grade



Wiring Diagram



Specifications

- Operating temp.: -40° to +85°C
- Impedance: 100 ohms
- DWV: 500 Vrms unmatd
- Current Rating: 1.5 A
- IR: 200 MΩ min.

Cable Construction

- 4 pair, Cat 6A, 100 ohm, S/FTP, IAW SAE AS6070/6 P/N 963-033-26
- Conductors: 26 AWG, stranded, silver-plated
- Shield: Al/polyamide foil, silver plated braid
- Jacket: fluoropolymer, white

SuperFly Datalink Construction

- Shell, backshell: aluminum alloy or SST
- Insulators: high-grade rigid dielectric
- Contacts: copper alloy, 50 microinches gold over nickel plating
- Grommet, O-ring : fluorosilicone
- Shield sleeve, ferrule, spline: copper alloy, electroless nickel plated

RJ45 Construction

- Contact housing: polycarbonate, UL94V-0
- Contacts: copper alloy, 50 microinches gold in contact area
- Connector housing : nickel-plated zinc alloy

Shielded. Cat 6A. Flight-grade cable. RJ45 modular plug. 100% tested.

Save assembly time and cost with pre-wired patch cords. One end is Series 882 SuperFly Datalink push-pull QDC connector. Other end is shielded RJ45 modular plug. Flight grade cable meets AS6070/6. Fluoropolymer cable jacket, 26 AWG conductors. Data pairs have individual foil shields, overall shield is silver-plated copper braid.

SIZE AND WEIGHT SAVING

- <1/2 inch (12.7 mm.) diameter
- Push-pull quick-disconnect

LOWER INSTALLED COST

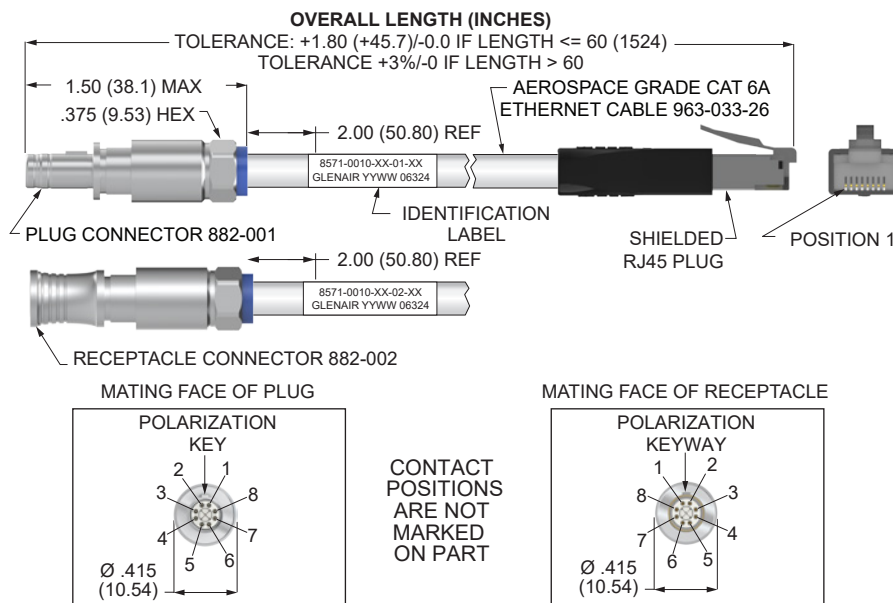
- Factory-terminated
- 100% tested

FLIGHT GRADE CABLE

- AS6070 approved

How To Order SuperFly Datalink to RJ45 Patch Cord

Sample Part Number	8571-0010	-MT	-02	-36
Product	8571-0010 = SuperFly Datalink Connector to RJ45 Patch Cord			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
SuperFly Datalink Connector Type	01 = Plug 882-001 02 = Receptacle 882-002 Plug and receptacle use cable P/N 963-033-26			
Overall Length	Length in Inches (12 inch minimum)			



8571-0033 Pre-Wired QDC Cordset, Single-Ended Cat 8, 40GbE



Lower installed cost. Save assembly time and cost with pre-wired SuperFly Datalink "White" assemblies for 40Gb Ethernet. These single-ended push-pull cordsets are terminated to Category 8 flight-grade shielded cable. Cable options include 24 AWG or 26 AWG stranded conductors. Series 882 QDC connectors are designed for demanding aerospace environments.

SIZE AND WEIGHT SAVING

- <1/2 inch (12.7 mm.) diameter
- Push-pull quick-disconnect

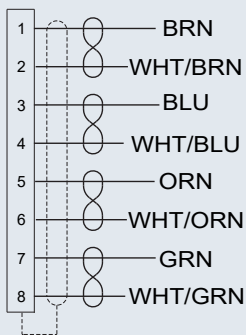
LOWER INSTALLED COST

- Factory-terminated SuperFly connector

HARSH ENVIRONMENT

- AS6070 type aerospace grade Category 8 cable

Wiring Diagram



How To Order SuperFly Datalink Single-ended Cordset

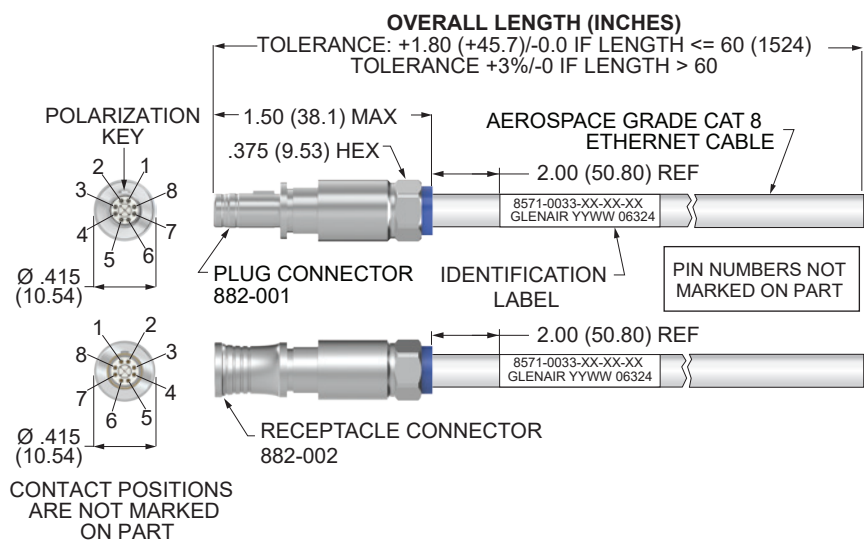
Sample Part Number	8571-0033	-MT	-05	-60
Product	8571-0033 = Pre-wired SuperFly Cat 8, QDC, Single-ended Ethernet			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Order Code Connector Type, Wire Size and Cable Type	01 = Plug, #26 AWG, S/FTP P/N 963-132-26 02 = Receptacle, #26 AWG, S/FTP P/N 963-132-26 03 = Plug, #24 AWG, S/FTP P/N 963-132-24 04 = Receptacle, #24 AWG, S/FTP P/N 963-132-24 05 = Plug, #26 AWG, S/FTP P/N 963-135-26 06 = Receptacle, #26 AWG, S/FTP P/N 963-135-26			
Overall Length	Length in Inches (12 inch minimum)			

Construction

- ❑ **Shell, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommets:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **Shield sleeve, ferrule, spline:** copper alloy, electroless nickel plated
- ❑ **Cable:** aerospace-grade fluoropolymer per AS6070.

Specifications

- ❑ **Operating temp.:** -65° to +175°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 500 Vrms unmatd
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 200 MΩ min.
- ❑ **Durability:** 2000 mating cycles



El Ochoito® White

8571-0034 Pre-Wired QDC Cordset, Plug-to-Recept, Cat 8, 40GbE



Lower installed cost. 100% tested. Save assembly time and cost with pre-wired SuperFly Datalink "White" assemblies for 40Gb Ethernet. These back-to-back push-pull cordsets are terminated to Category 8 flight-grade shielded cable. 24 AWG or 26 AWG stranded conductors. Series 882 QDC connectors are designed for demanding aerospace environments.

SIZE AND WEIGHT SAVING

- <1/2 inch (12.7 mm.) diameter
- Push-pull quick-disconnect

LOWER INSTALLED COST

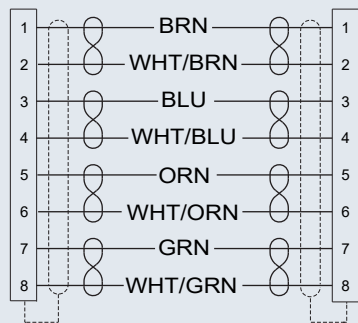
- Factory-terminated
- 100% tested

HARSH ENVIRONMENT

- AS6070 type aerospace grade Category 8 cable

Wiring Diagram

PLUG ← → RECEPTACLE



Construction

- ❑ **Shell, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommets:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **Shield sleeve, ferrule, spline:** copper alloy, electroless nickel plated
- ❑ **Cable:** aerospace-grade fluoropolymer per AS6070. Cable construction details are shown on following pages.

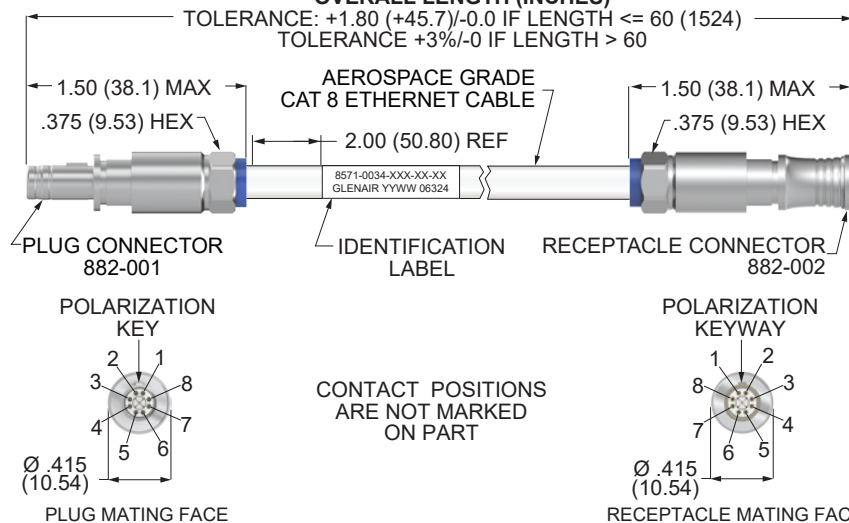
Specifications

- ❑ **Operating temp.:** -65° to +175°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 500 Vrms unmated
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 200 MΩ min.
- ❑ **Durability:** 2000 mating cycles

How To Order SuperFly Datalink Plug-to-Receptacle Cordset

Sample Part Number	8571-0034	-ZMT	-03	-36
Product	8571-0034 = Pre-wired SuperFly Datalink assembly, QDC plug to receptacle			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Cable Type	01 = Category 8, #26 AWG, S/FTP P/N 963-132-26 02 = Category 8, #24 AWG, S/FTP P/N 963-132-24 03 = Category 8, #26 AWG, S/FTP P/N 963-135-26			
Overall Length	Length in Inches (12 inch minimum)			

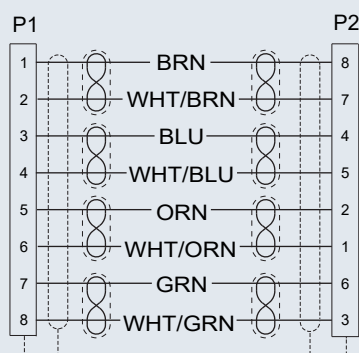
OVERALL LENGTH (INCHES)



8571-0035 QDC Patch Cord, SuperFly to RJ45, Cat 8, 40GbE



Wiring Diagram



Specifications

- ☐ Operating temp.: -40° to +85°C
- ☐ Impedance: 100 ohms
- ☐ DWV: 500 Vrms unmatd
- ☐ Current Rating: 1.5 A
- ☐ IR: 200 MΩ min.

Cable Construction

- ☐ 4 pair, Cat 8, 100 ohm, S/FTP, IAW SAE AS6070/6 P/N 963-132-26, 963-132-24, 963-135-26
- ☐ **Conductors:** stranded, silver-plated
- ☐ **Shield:** Al/polyamide foil, silver plated braid
- ☐ **Jacket:** fluoropolymer, white

SuperFly Datalink Construction

- ☐ **Shell, backshell:** aluminum alloy or SST
- ☐ **Insulators:** high-grade rigid dielectric
- ☐ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ☐ **Grommet, O-ring :** fluorosilicone
- ☐ **Shield sleeve, ferrule, spline:** copper alloy, electroless nickel plated

RJ45 Construction

- ☐ **Contact housing:** polycarbonate, UL94V-0
- ☐ **Contacts:** copper alloy, 50 microinches gold in contact area
- ☐ **Connector housing :** nickel-plated zinc alloy

Shielded. Cat 8. Flight-grade cable. RJ45 modular plug. 100% tested.

Save assembly time and cost with pre-wired patch cords. One end is Series 882 SuperFly Datalink push-pull QDC connector. Other end is shielded RJ45 modular plug. Flight grade cable meets AS6070/6. Fluoropolymer cable jacket, 26 or 24 AWG conductors. Data pairs have individual foil shields, overall shield is silver-plated copper braid.

SIZE AND WEIGHT SAVING

- <1/2 inch (12.7 mm.) diameter
- Push-pull quick-disconnect

LOWER INSTALLED COST

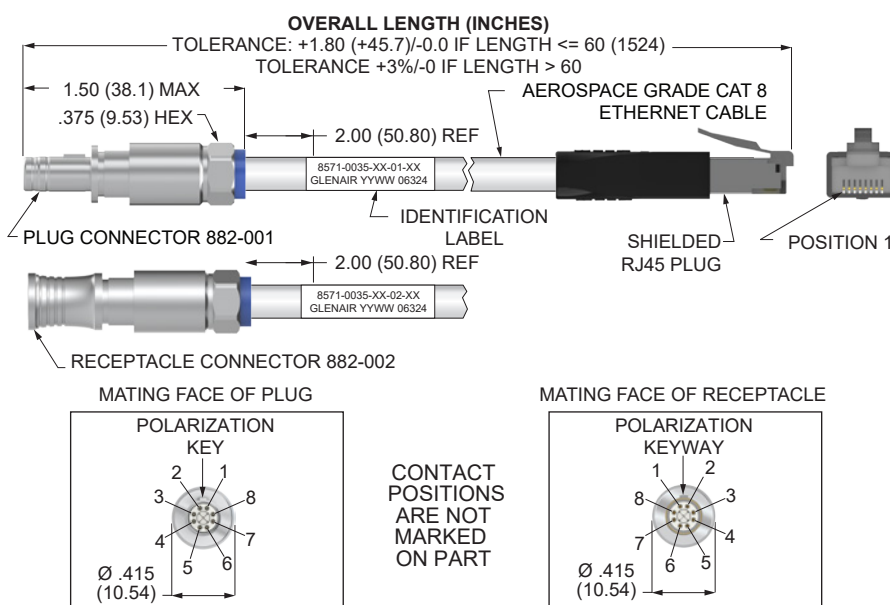
- Factory-terminated
- 100% tested

FLIGHT GRADE CABLE

- AS6070 approved

How To Order SuperFly Datalink to RJ45 Patch Cord

Sample Part Number	8571-0035	-MT	-02	-36
Product	8571-0035 = SuperFly Datalink patch cord assembly, Cat 8 QDC Plug or Receptacle to RJ45			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
SuperFly Datalink Connector Type	01 = Plug 882-001; cable 963-132-26 02 = Receptacle 882-002; cable 963-132-26 03 = Plug 882-001; cable 963-132-24 04 = Receptacle 882-002; cable 963-132-24 05 = Plug 882-001; cable 963-135-26 06 = Receptacle 882-002; cable 963-135-26			
Overall Length	Length in Inches (12 inch minimum)			



El Ochoito® White

882-003 Cable Plug, Threaded Coupling, up to 40GbE



SIZE AND WEIGHT SAVING

- Smallest 40GbE aerospace-grade connector
- Integral strain relief and cable seal
- High density contacts

HARSH ENVIRONMENT

- EMI protection
- Shock and vibration
- Corrosion resistance

Table I: Cable Accommodated

Dash No.	Cable Part No.	Wire Size (AWG)	Cable Type
-01	963-003-26	26	Cat 6A 10 GBase-T
-02	963-033-26	26	
-03	963-037-24	24	
-04	963-033-24	24	
-05	963-003-24	24	
-06	963-033-28	28	Cat 8 40 GBase-T
-07	963-132-26	26	
-08	963-132-24	24	
-09	963-135-26	26	

Specifications

- ❑ Operating temp.: -65° to +175°C
- ❑ Impedance: 100 ohms
- ❑ DWV: 500 Vrms unmated
- ❑ Current Rating: 1.5 A
- ❑ IR: 1000 MΩ min.
- ❑ Durability: 2000 mating cycles
- ❑ Ingress protection: IP67

Construction

- ❑ Shell, coupling nut, backshell: aluminum alloy or stainless steel
- ❑ Insulators: high-grade rigid dielectric
- ❑ Contacts: copper alloy, 50 microinches gold over nickel plating
- ❑ Grommet: fluorosilicone
- ❑ O-ring: fluorosilicone
- ❑ Shield sleeve, ferrule, spline: copper alloy, electroless nickel plated

Contact Crimp Tools

Hand Crimp Tool



809-015
(M22520/2-01)

Positioner for Hand Crimp Tool



859-101
(K1906)

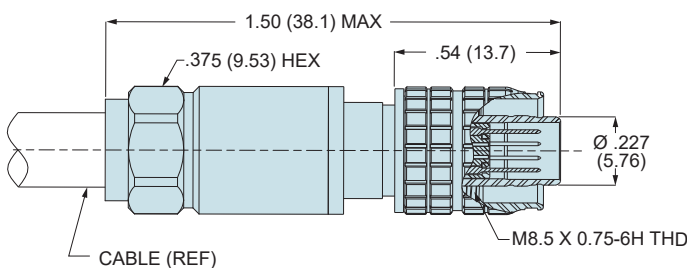
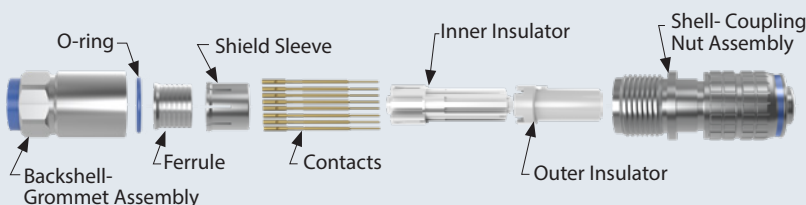
40Gb Ethernet. Ultraminiature. High performance. 882-003 SuperFly Datalink connectors have one, El Ochito® octaxial contact housing eight pin contacts. Compatible with #24 to #28 AWG Category 6A and 8 Ethernet cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool. 882-003 plugs have a rotating coupling nut with M8.5 metric thread. Braided cable shield terminates to connector with supplied bushing. *Mates to 882-004, -006, -007 and -041.*

How To Order Cable Plug

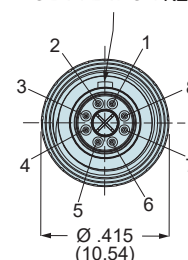
Sample Part Number	882-003	-M	-01
Series	882-003 = Cable Plug		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01 thru -09; Follow Assembly Instruction A880001-(dash no)		

882-003 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.



POLARIZATION KEY



CONTACT POSITIONS
(NOT MARKED ON PART)

882-006 Cable Receptacle, Threaded Coupling, up to 40GbE



SIZE AND WEIGHT SAVING

- Smallest 40GbE aerospace-grade connector
- Integral strain relief and cable seal
- High density contacts

HARSH ENVIRONMENT

- EMI protection
- Shock and vibration
- Corrosion resistance

Table I: Cable Accommodated

Dash No.	Cable Part No.	Wire Size (AWG)	Cable Type
-01	963-003-26	26	Cat 6A 10 GBase-T
-02	963-033-26	26	
-03	963-037-24	24	
-04	963-033-24	24	
-05	963-003-24	24	
-06	963-033-28	28	Cat 8 40 GBase-T
-07	963-132-26	26	
-08	963-132-24	24	
-09	963-135-26	26	

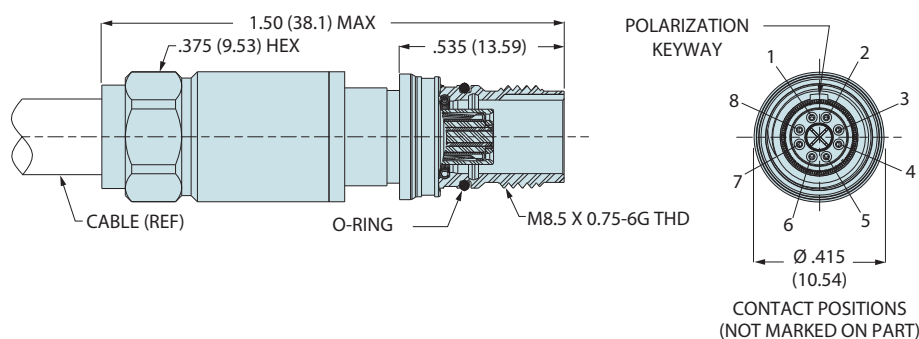
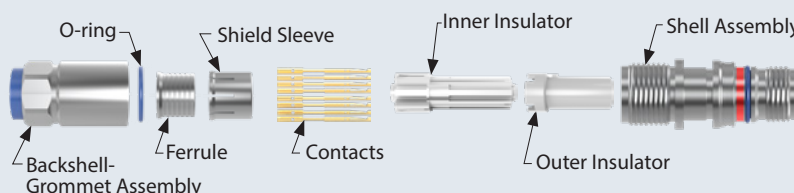
40GbE. Ultraminiature. High performance. 882-006 SuperFly Datalink connectors have one, El Ochoito® octaxial contact housing eight socket contacts. Compatible with #24 to #28 AWG Category 6A and 8 Ethernet cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool. M8.5 metric mating thread. Internal O-ring seals to mating plug. Gold-plated interface spring assures low shell-to-shell resistance. Braided cable shield terminates to connector with supplied bushing. **Mates to 882-003 plug.**

How To Order Cable Receptacle

Sample Part Number	882-006	-M	-01
Series	882-006 = Cable Receptacle		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01 thru -09; Follow Assembly Instruction A880001-(dash no)		

882-006 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.



Specifications

- ❑ **Operating temp.:** -65° to +175°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 500 Vrms unmated
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 1000 MΩ min.
- ❑ **Durability:** 2000 mating cycles
- ❑ **Ingress protection:** IP67

Construction

- ❑ **Shell, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommet:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **EMI spring:** stainless steel, gold plated
- ❑ **Shield sleeve, ferrule, spline:** copper alloy, electroless nickel plated

Contact Crimp Tools

Hand Crimp Tool



809-015
(M22520/2-01)

Positioner for Hand Crimp Tool



859-101
(K1906)

882-041 Panel Mount Receptacle, Threaded Coupling, up to 40GbE

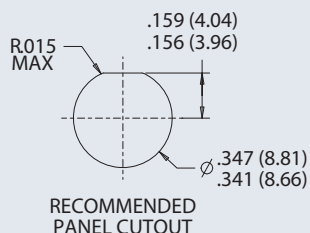


40GbE. Ultraminiature. High performance. 882-041 SuperFly Datalink connectors have one, El Ochito® octaxial contact housing eight socket contacts. Compatible with #24 to #28 AWG Category 6A and 8 Ethernet cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool. M8.5 metric mating thread. Internal O-ring seals to mating plug. Gold-plated interface spring assures low shell-to-shell resistance. Braided cable shield terminates to connector with supplied bushing. **Mates to 882-003 plug.**

How To Order Panel Mount Receptacle

Sample Part Number	882-041	-M	-01
Series	882-041= Panel Mount Receptacle		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01 thru -09; Follow Assembly Instruction A880001-(dash no)		

Recommended Panel Cutout



882-041 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.

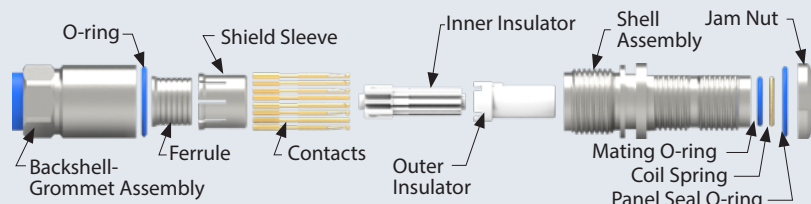
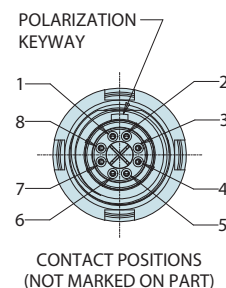
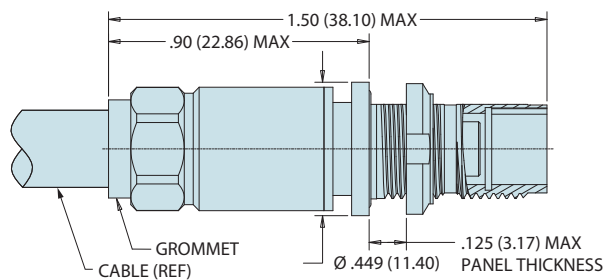


Table I: Cable Accommodated

Dash No.	Cable Part No.	Wire Size (AWG)	Cable Type
-01	963-003-26	26	Cat 6A 10 GBase-T
-02	963-033-26	26	
-03	963-037-24	24	
-04	963-033-24	24	
-05	963-003-24	24	
-06	963-033-28	28	Cat 8 40 GBase-T
-07	963-132-26	26	
-08	963-132-24	24	
-09	963-135-26	26	



Specifications

- Operating temp.: -65° to +175°C
- Impedance: 100 ohms
- DWV: 500 Vrms unmated
- Current Rating: 1.5 A
- IR: 1000 MΩ min.
- Durability: 2000 mating cycles
- Ingress protection: IP67

Construction

- Shell, backshell: aluminum alloy or stainless steel
- Insulators: high-grade rigid dielectric
- Contacts: copper alloy, 50 microinches gold over nickel plating
- Grommet: fluorosilicone
- O-rings: fluorosilicone
- EMI spring: stainless steel, gold plated
- Shield sleeve, ferrule, spline: copper alloy, electroless nickel plated

Contact Crimp Tools

Hand Crimp Tool



809-015
(M22520/2-01)

Positioner for Hand Crimp Tool



859-101
(K1906)

882-004 PC Tail Panel Mnt Receptacle, Threaded Coupling, 40GbE



40GbE. Ultraminiature. Rear panel jam-nut mount. PCB terminals.

882-004 SuperFly Datalink connectors have one, El Ochoito® octaxial contact housing eight socket contacts. Attach to .100" (2.54 mm) maximum thickness panel with spanner nut. PC tail contacts are gold plated or solder dipped in 63/37 tin-lead. Contacts are epoxy-sealed and are non-removable. Gold-plated EMI spring for low shell-to-shell resistance, fluorosilicone O-rings for water-tight seal. *Mates to 882-003 plug.*

SIZE AND WEIGHT SAVING

- Smallest 40Gb Ethernet aerospace-grade connector

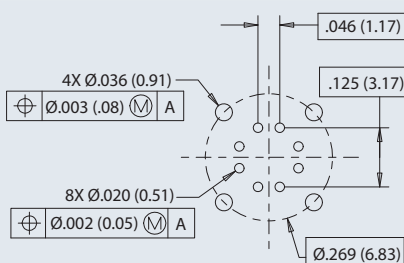
FAST ASSEMBLY

- Pre-tinned PC tail contacts
- Epoxy-sealed terminals

HARSH ENVIRONMENT

- EMI protection
- Water ingress
- Shock and vibration

Recommended PC Board Layout

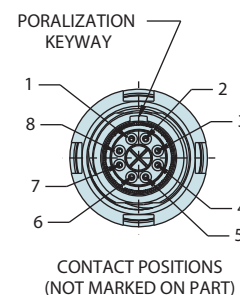
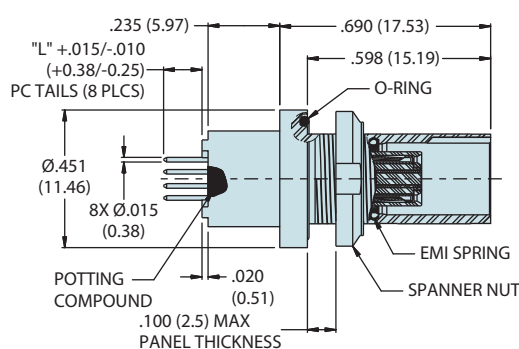
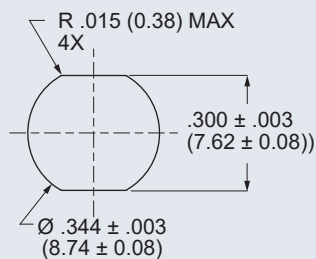


RECOMMENDED PCB LAYOUT
CONNECTOR SIDE
SEE AN0002 FOR OPTIMAL PERFORMANCE
(MAINTAIN Ø.036 ON Ø.269 FOR GROUND PINS)

How To Order PC Tail Panel Mnt Receptacle

Sample Part Number	882-004	- M	G	-.125
Product	882-004 = Panel Mount PC Tail Receptacle			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
PC Tail Finish	S = Solder dip, 63/37 tin-lead G = Gold			
PC Tail Length	.080 = .080" (2.03 mm.) .175 = .175" (4.45 mm.)	.125 = .125" (3.18 mm.) .200 = .200" (5.08 mm.)		

Recommended Panel Cutout



Specifications

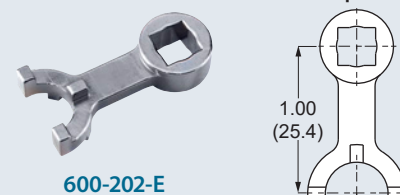
- ❑ **Operating temp.:** -65° to +175°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 500 Vrms unmated
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 1000 MΩ min.
- ❑ **Durability:** 2000 mating cycles
- ❑ **Ingress protection:** IP67

Construction

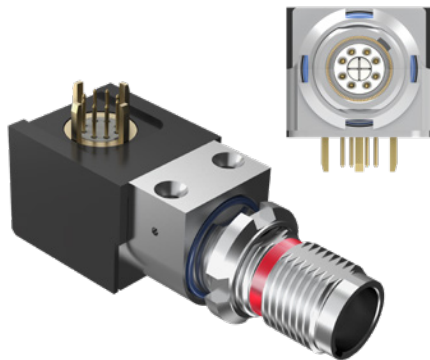
- ❑ **Shell, jam-nut:** aluminum alloy or SST
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **O-rings:** fluorosilicone
- ❑ **EMI spring:** stainless steel, gold plated
- ❑ **Spline:** copper alloy, electroless nickel plated
- ❑ **Potting:** epoxy

Spanner Nut Tightening Tool

Nickel-plated tool steel, 1/4" sq. drive
13 - 18 in.-lbs. recommended torque



882-007 90° PC Tail, Panel Mnt Receptacle, Threaded Coupling, 10GbE



10GbE. Ultraminiature. Rear panel jam-nut mount. 90° PCB terminals.

882-007 SuperFly Datalink connectors have one, El Ochito® octaxial contact housing eight socket contacts. Attach to .100 (2.54) max thickness panel with spanner nut. PC tail contacts are gold plated or solder dipped in 63/37 tin-lead. Contacts are epoxy-sealed and are non-removable. Gold-plated EMI spring for low shell-to-shell resistance, fluorosilicone O-rings for water-tight seal.

Mates to 882-003 plug.

SIZE AND WEIGHT SAVING

- Smallest 10Gb Ethernet aerospace-grade connector

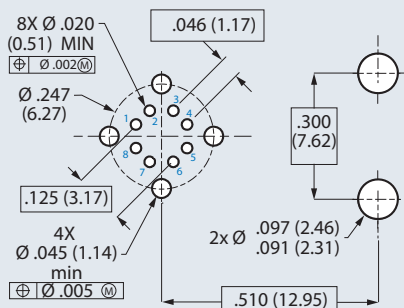
FAST ASSEMBLY

- Pre-tinned PC tail contacts
- Epoxy-sealed terminals

HARSH ENVIRONMENT

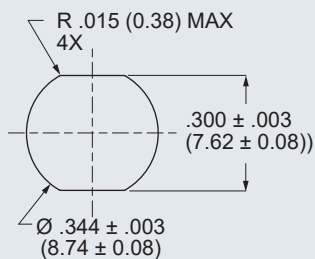
- EMI protection
- Water ingress
- Shock and vibration

PC Board Layout



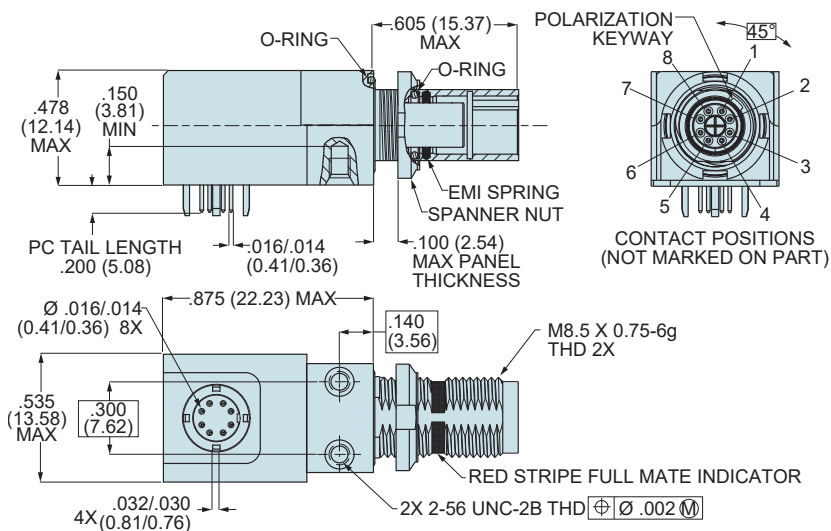
Connector side of PCB
See AN0002 for optimal performance

Panel Cutout



How To Order PC Tail, Panel Mnt Receptacle

Sample Part Number	882-007	-M	G	-.200
Product	882-007 = Panel Mount PC Tail Receptacle			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
PC Tail Finish	S = Solder dip, 63/37 tin-lead G = Gold			
PC Tail Length	.200 = .200" (5.08 mm.)			



Specifications

- **Operating temp.:** -65° to +175°C
- **Impedance:** 100 ohms
- **DWV:** 100 Vrms unmated
- **Current Rating:** 1.5 A
- **IR:** 100 MΩ min. @ 150 Vdc
- **Durability:** 2000 mating cycles
- **Ingress protection:** IP67

Construction

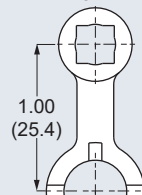
- **Shell, jam-nut:** aluminum alloy or SST
- **Insulators and tray:** high-grade rigid dielectric
- **Contacts:** copper alloy, 50 microinches gold over nickel plating
- **O-rings:** fluorosilicone
- **EMI spring:** stainless steel, gold plated
- **Spine:** copper alloy, nickel plated
- **Potting:** epoxy

Spanner Nut Tightening Tool

Nickel-plated tool steel, 1/4" sq. drive
13 - 18 in.-lbs. recommended torque



600-202-E



8571-0012 Threaded Coupling Cordset, Single-Ended, 10GbE



Lower installed cost. Save assembly time and cost with pre-wired SuperFly Datalink "White" assemblies for 10Gb Ethernet. These single-ended Octaxial threaded coupling assemblies are terminated to Category 6A aerospace-grade shielded cable. Cable options include unshielded or shielded data pairs, 24 AWG or 26 AWG stranded conductors. Series 882 connectors are designed for demanding aerospace environments.

SIZE AND WEIGHT SAVING

- Ultra small .415" (10.5 mm.) diameter coupling nut
- Integral backshell and cable seal

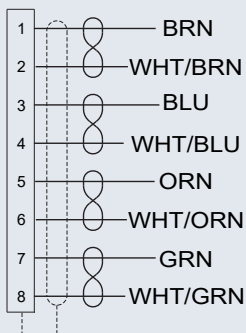
LOWER INSTALLED COST

- Factory-terminated SuperFly connector

HARSH ENVIRONMENT

- Aerospace grade Category 6A cable
- Shock, vibration, moisture

Wiring Diagram



Construction

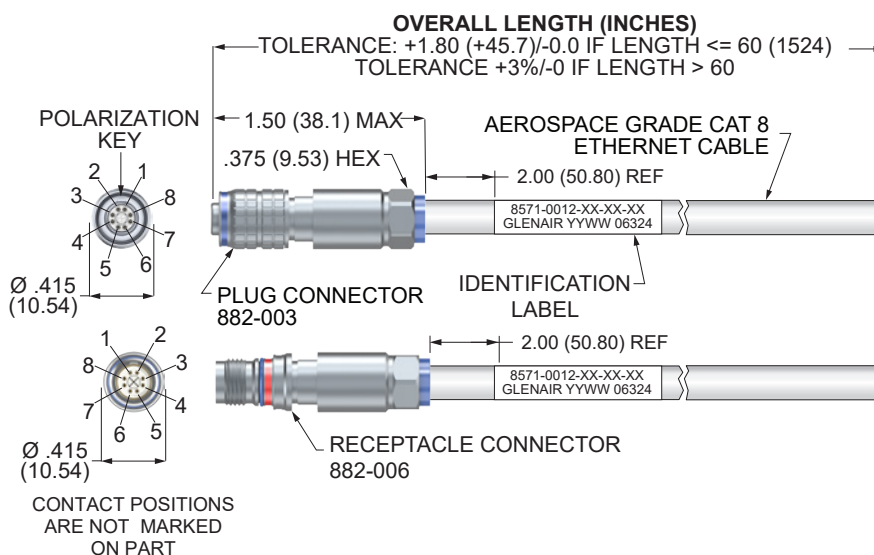
- ❑ **Shell, coupling nut, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommets:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **Shield sleeve, ferrule, spline:** copper alloy, electroless nickel plated
- ❑ **Cable:** aerospace-grade fluoropolymer per AS6070

Specifications

- ❑ **Operating temp.:** -65° to +175°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 500 Vrms unmated
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 200 MΩ min.
- ❑ **Durability:** 2000 mating cycles

How To Order SuperFly Datalink Single-ended Cordset

Sample Part Number	8571-0012	-MT	-06	-60
Product	8571-0012 = Pre-wired SuperFly Datalink Assembly, Threaded, Single-Ended			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Order Code Connector Type, Wire Size and Cable Type	01 = Plug, #26 AWG, S/UTP* P/N 963-003-26 02 = Receptacle, #26 AWG, S/UTP* P/N 963-003-26 03 = Plug, #26 AWG, S/FTP** P/N 963-033-26 04 = Receptacle, #26 AWG, S/FTP** P/N 963-033-26 05 = Plug, #24 AWG, S/UTP* P/N 963-037-24 06 = Receptacle, #24 AWG, S/UTP* P/N 963-037-24 07 = Plug, #24 AWG, S/FTP** P/N 963-033-24 08 = Receptacle, #24 AWG, S/FTP** P/N 963-033-24 *S/UTP cable has overall braid shield **S/FTP cable has overall braid shield plus foil wrap on pairs			
Overall Length	Length in Inches (12 inch minimum)			



El Ocho[®] White

8571-0013 Threaded Coupling Cordset, Plug-to-Receptacle, 10GbE



Lower installed cost. 100% tested. 10GbE. Save assembly time and cost with pre-wired SuperFly Datalink "White" assemblies for 10G Ethernet. These back-to-back Octaxial cordsets are terminated to Cat 6A aerospace-grade shielded cable. Two cable constructions are available: S/UTP (unshielded pairs with overall braid shield) or S/FTP (foil shielded pairs with overall braid). 24 AWG or 26 AWG stranded conductors. Series 882 connectors are designed for demanding aerospace environments.

SIZE AND WEIGHT SAVING

- Ultra small .415" (10.5 mm.) diameter coupling nut
- Integral backshell and cable seal

LOWER INSTALLED COST

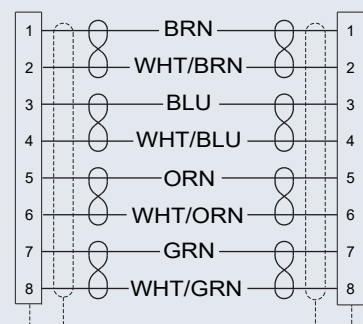
- Factory-terminated
- 100% tested

HARSH ENVIRONMENT

- Aerospace grade Category 6A cable
- Shock, vibration, moisture

Wiring Diagram

PLUG ← RECEPTACLE



Construction

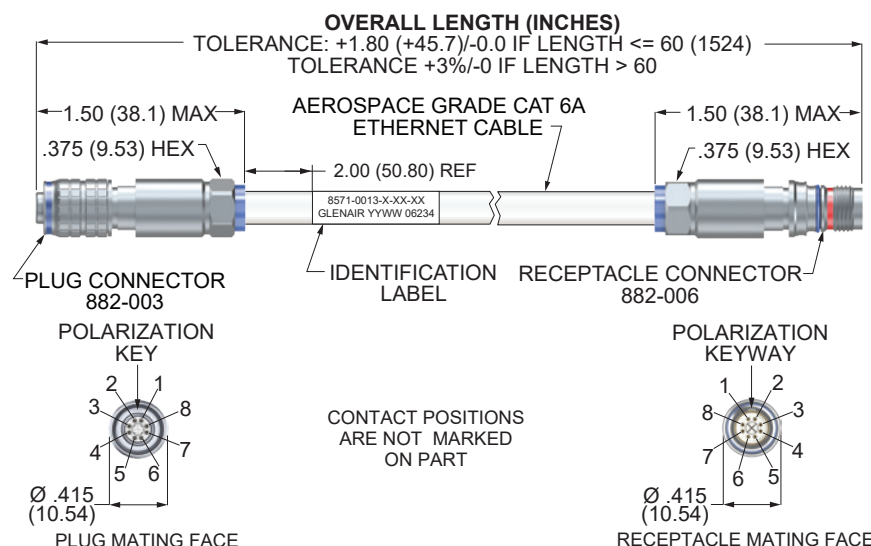
- **Shell, coupling nut, backshell:** aluminum alloy or stainless steel
- **Insulators:** high-grade rigid dielectric
- **Contacts:** copper alloy, 50 microinches gold over nickel plating
- **Grommets:** fluorosilicone
- **O-rings:** fluorosilicone
- **Shield sleeve, ferrule, spline:** copper alloy, electroless nickel plated
- **Cable:** aerospace-grade fluoropolymer per AS6070

Specifications

- **Operating temp.:** -65° to +175°C
- **Impedance:** 100 ohms
- **DWV:** 500 Vrms unmated
- **Current Rating:** 1.5 A
- **IR:** 200 MΩ minimum
- **Durability:** 2000 mating cycles

How To Order SuperFly Datalink Plug-to-Receptacle Cordset

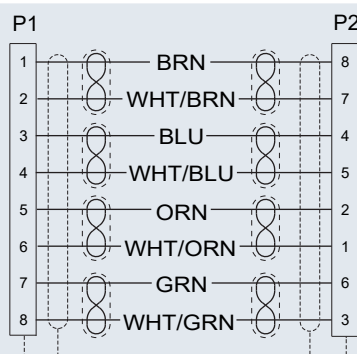
Sample Part Number	8571-0013	-MT	-03	-72
Product	8571-0013 = Pre-wired SuperFly Datalink Assembly, Threaded Coupling, Plug to Receptacle			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Cable Type	01 = Category 6A, #26 AWG, S/UTP* P/N 963-003-26 02 = Category 6A, #26 AWG, S/FTP** P/N 963-033-26 03 = Category 6A, #24 AWG, S/UTP* P/N 963-037-24 04 = Category 6A, #24 AWG, S/FTP** P/N 963-033-24 *S/UTP cable has overall braid shield **S/FTP cable has overall braid shield plus foil wrap on pairs			
Overall Length	Length in Inches (12 inch minimum)			



8571-0015 Threaded Coupling Patch Cord, SuperFly to RJ45, 10GbE



Wiring Diagram



Specifications

- Operating temp.: -10 to +60°C
- Impedance: 100 ohms
- DWV: 500 Vrms untested
- Current Rating: 1.5 A
- IR: 200 MΩ min.

Cable Construction

- 4 pair, Cat 6A, 100 ohm
- Conductors: 26 AWG 7/34 tinned copper
- Shield: Al/polyester foil, TC braid
- Jacket: low smoke zero halogen, black

SuperFly Datalink Construction

- Shell, backshell, coupling nut: aluminum alloy or SST
- Insulators: high-grade rigid dielectric
- Contacts: copper alloy, 50 microinches gold over nickel plating
- Grommet, O-ring: fluorosilicone
- Shield sleeve, ferrule, spline: copper alloy, electroless nickel plated

RJ45 Construction

- Housing: polycarbonate, UL94V-0
- Contacts: copper alloy, 50 microinches gold in contact area
- Boot: thermoplastic, UL94V-0
- EMI shield: 360°

Commercial grade cable. Shielded. Cat 6A. LSZH jacket. RJ45 plug. Ground. Save assembly time and cost with pre-wired patch cords. One end is Series 882 SuperFly Datalink threaded coupling Octaxial connector. Other end is shielded RJ45 plug with snagless strain relief boot. Commercial grade 26 AWG stranded cable is RoHS, lead-free, halogen-free, PVC free. Data pairs have individual foil shields, overall shield is tinned copper braid.

SIZE AND WEIGHT SAVING

- Ultra small .415" (10.5 mm.) diameter coupling nut
- Integral backshell and cable seal

LOWER INSTALLED COST

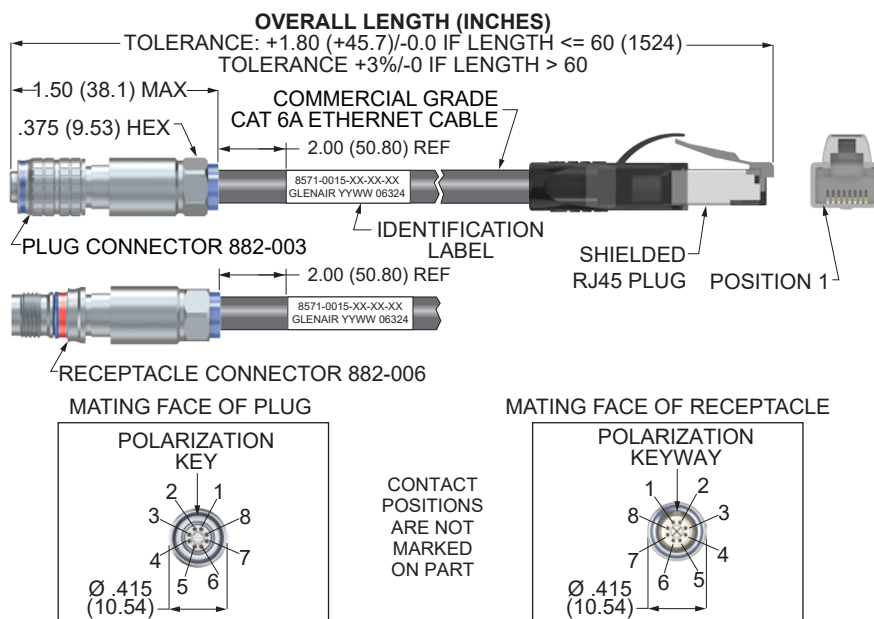
- Factory-terminated
- 100% tested

COMMERCIAL GRADE

- Low smoke zero halogen jacket

How To Order SuperFly Datalink Connector to RJ45 Patch Cord

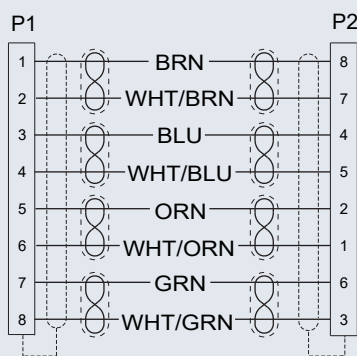
Sample Part Number	8571-0015	-Z2	-01	-48
Product	8571-0015 = SuperFly Datalink Connector to RJ45 Patch Cord Assembly			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
SuperFly Datalink Connector Type	01 = Plug 882-003 02 = Receptacle 882-006			
Overall Length	Length in Inches (12 inch minimum)			



8571-0016 Threaded Coupling, SuperFly to RJ45, Aerospace Grade, 10GbE



Wiring Diagram



Specifications

- Operating temp.: -40° to +85°C
- Impedance: 100 ohms
- DWV: 500 Vrms unmated
- Current Rating: 1.5 A
- IR: 200 MΩ min.

Cable Construction

- 4 pair, Cat 6A, 100 ohm, S/FTP, IAW SAE AS6070/6 P/N 963-033-26
- Conductors: 26 AWG, stranded, silver-plated
- Shield: Al/polyamide foil, silver plated braid
- Jacket: fluoropolymer, white

SuperFly Datalink Construction

- Shell, backshell: aluminum alloy or SST
- Insulators: high-grade rigid dielectric
- Contacts: copper alloy, 50 microinches gold over nickel plating
- Grommet, O-ring: fluorosilicone
- Shield sleeve, ferrule, spline: copper alloy, electroless nickel plated

RJ45 Construction

- Contact housing: polycarbonate, UL94V-0
- Contacts: copper alloy, 50 microinches gold in contact area
- Connector housing: nickel-plated zinc alloy

Flight-grade cable. Shielded. Category 6A. RJ45 modular plug. Save assembly time and cost with pre-wired patch cords. One end is Series 882 SuperFly Datalink threaded coupling Octaxial connector. Other end is shielded RJ45 modular plug. Flight grade cable meets AS6070/6. Fluoropolymer cable jacket, 26 AWG conductors. Data pairs have individual foil shields, overall shield is silver-plated copper braid.

SIZE AND WEIGHT SAVING

- Ultra small .415" (10.5 mm.) diameter coupling nut
- Integral backshell and cable seal

LOWER INSTALLED COST

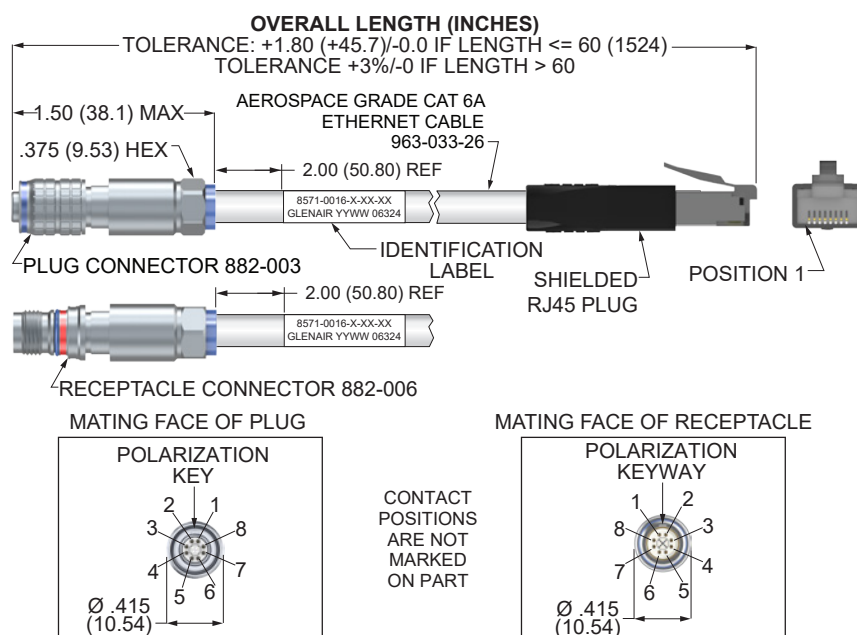
- Factory-terminated
- 100% tested

FLIGHT GRADE CABLE

- AS6070/6 qualified cable

How To Order SuperFly Datalink Connector to RJ45 Patch Cord

Sample Part Number	8571-0016	-M	-01	-24
Product	8571-0016 = SuperFly Datalink Patch Cord Assembly, Threaded Coupling Connector to RJ45			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
SuperFly Datalink Connector Type	01 = Plug 882-003; Cable 963-033-26 02 = Receptacle 882-006; Cable 963-033-26			
Overall Length	Length in Inches (12 inch minimum)			



8571-0036 Threaded Coupling, SuperFly Single-ended Cat 8, 40GbE



Lower installed cost. 40GbE. Save assembly time and cost with pre-wired SuperFly Datalink "White" assemblies for 40G Ethernet. These single-ended Octaxial cordsets are terminated to Cat 8 aerospace-grade shielded cable. 24 AWG or 26 AWG stranded conductors. Series 882 connectors are designed for demanding aerospace environments.

SIZE AND WEIGHT SAVING

- Ultra small .415" (10.5 mm.) diameter coupling nut
- Integral backshell and cable seal

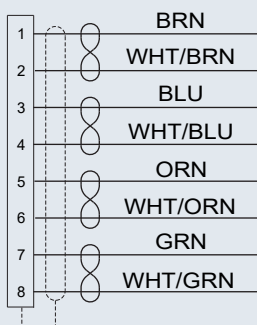
LOWER INSTALLED COST

- Factory-terminated SuperFly connector

HARSH ENVIRONMENT

- Aerospace grade Category 8 cable
- Shock, vibration, moisture

Wiring Diagram



Construction

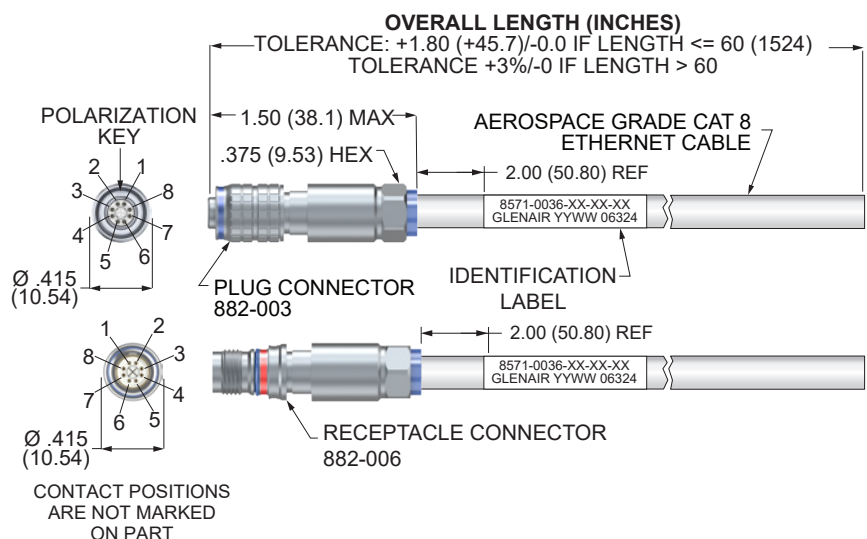
- ❑ **Shell, coupling nut, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommets:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **Shield sleeve, ferrule, spline:** copper alloy, electroless nickel plated
- ❑ **Cable:** varies; see applicable sales drawing

Specifications

- ❑ **Operating temp.:** -65° to +175°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 500 Vrms unmatd
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 200 MΩ minimum
- ❑ **Durability:** 2000 mating cycles

How To Order SuperFly Datalink Single-ended Cordset

Sample Part Number	8571-0036	-MT	-03	-72
Product	8571-0036 = Pre-wired SuperFly Datalink, Cat 8 Single-Ended Cordset, Threaded			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Cable Type	01 = Plug, Cat 8, #26 AWG, P/N 963-132-26 02 = Receptacle, Cat 8, #26 AWG, P/N 963-132-26 03 = Plug, Cat 8, #24 AWG, P/N 963-132-24 04 = Receptacle, Cat 8, #24 AWG, P/N 963-132-24 05 = Plug, Cat 8, #26 AWG, P/N 963-135-26 06 = Receptacle, Cat 8, #26 AWG, P/N 963-135-26			
Overall Length	Length in Inches (12 inch minimum)			



El Ochoito® White

8571-0037 Threaded Coupling Cordset, Plug-to-Receptacle Cat 8, 40GbE



Lower installed cost. 100% tested. 40GbE.
Save assembly time and cost with pre-wired SuperFly Datalink™ "White" assemblies for 40G Ethernet. These back-to-back Octaxial cordsets are terminated to Cat 8 aerospace-grade shielded cable. 24 AWG or 26 AWG S/FTP (foil shielded pairs with overall braid) stranded conductors. Series 882 connectors are designed for demanding aerospace environments.

SIZE AND WEIGHT SAVING

- Ultra small .415" (10.5 mm.) diameter coupling nut
- Integral backshell and cable seal

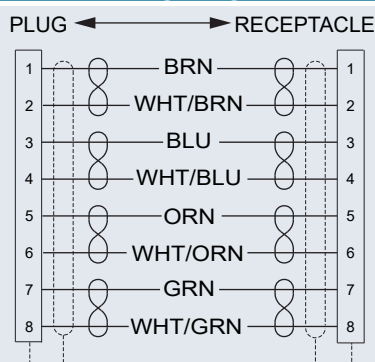
LOWER INSTALLED COST

- Factory-terminated
- 100% tested

HARSH ENVIRONMENT

- Aerospace grade Category 8 cable
- Shock, vibration, moisture

Wiring Diagram



How To Order SuperFly Datalink Plug-to-Receptacle Cordset

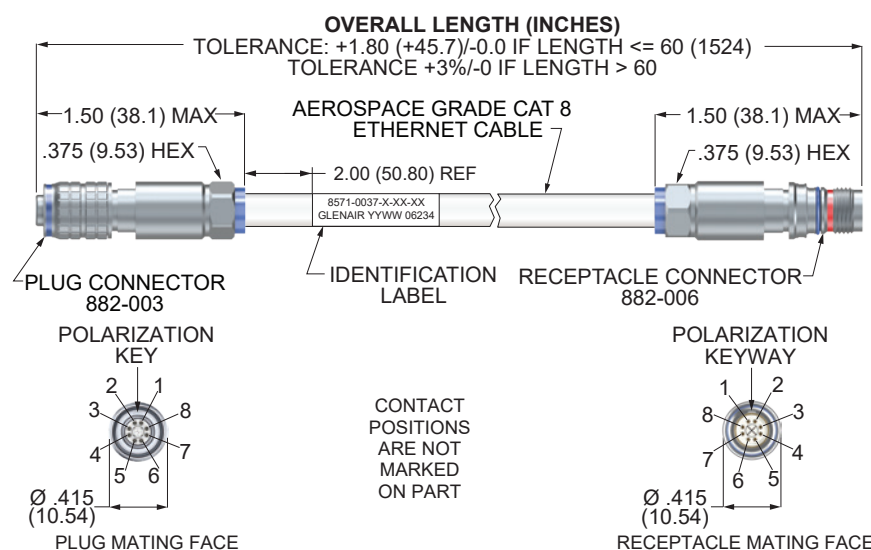
Sample Part Number	8571-0037	-MT	-03	-72
Product	8571-0037 = Pre-wired Superfly Datalink Cordset, Threaded Coupling, Plug to Receptacle			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Cable Type	01 = Category 8, #26 AWG, S/FTP P/N 963-132-26 02 = Category 8, #24 AWG, S/FTP P/N 963-132-24 03 = Category 8, #26 AWG, S/FTP P/N 963-135-26			
Overall Length	Length in Inches (12 inch minimum)			

Construction

- ❑ Shell, coupling nut, backshell: aluminum alloy or stainless steel
- ❑ Insulators: high-grade rigid dielectric
- ❑ Contacts: copper alloy, 50 microinches gold over nickel plating
- ❑ Grommets: fluorosilicone
- ❑ O-rings: fluorosilicone
- ❑ Shield sleeve, ferrule, spline: copper alloy, electroless nickel plated
- ❑ Cable: aerospace-grade fluoropolymer per AS6070

Specifications

- ❑ Operating temp.: -65° to +175°C
- ❑ Impedance: 100 ohms
- ❑ DWV: 500 Vrms unmated
- ❑ Current Rating: 1.5 A
- ❑ IR: 200 MΩ minimum
- ❑ Durability: 2000 mating cycles



8571-0038 Threaded Coupling Cat 8, SuperFly to RJ45, 40GbE



Aerospace grade cable. Shielded.
Category 8. RJ45 modular plug. Save assembly time and cost with pre-wired patch cords. One end is Series 882 SuperFly Datalink threaded coupling Octaxial connector. Other end is shielded RJ45 modular plug. Flight grade cable meets AS6070/6. Fluoropolymer cable jacket, 26 or 24 AWG conductors. Data pairs have individual foil shields, overall shield is silver-plated copper braid.

SIZE AND WEIGHT SAVING

- Ultra small .415" (10.5 mm.) diameter coupling nut
- Integral backshell and cable seal

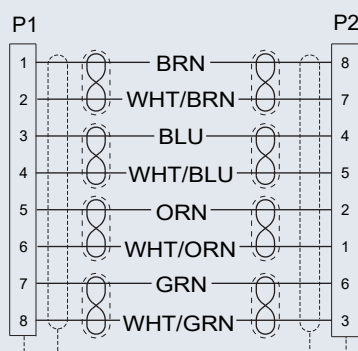
LOWER INSTALLED COST

- Factory-terminated
- 100% tested

FLIGHT GRADE CABLE

- AS6070/6 qualified cable

Wiring Diagram



Specifications

- Operating temp.: -40° to +85°C
- Impedance: 100 ohms
- DWV: 500 Vrms untested
- Current Rating: 1.5 A
- IR: 200 MΩ min.

Cable Construction

- Refer to applicable cable drawing

SuperFly Datalink Construction

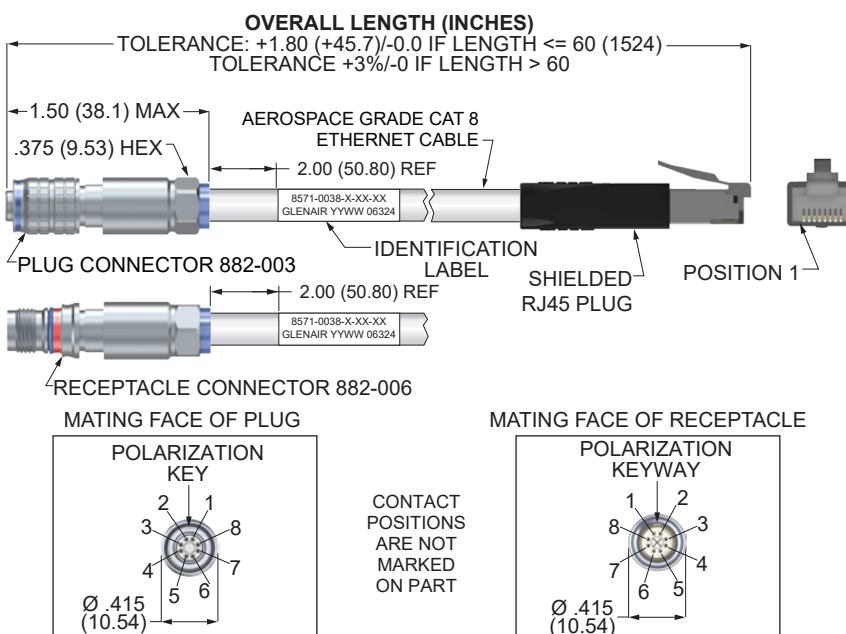
- **Shell, backshell:** aluminum alloy or SST
- **Insulators:** high-grade rigid dielectric
- **Contacts:** copper alloy, 50 microinches gold over nickel plating
- **Grommet, O-ring :** fluorosilicone
- **Shield sleeve, ferrule, spline:** copper alloy, electroless nickel plated

RJ45 Construction

- **Contact housing:** polycarbonate, UL94V-0
- **Contacts:** copper alloy, 50 microinches gold in contact area
- **Connector housing :** nickel-plated zinc alloy

How To Order SuperFly Datalink Connector to RJ45 Plug Patchcord

Sample Part Number	8571-0038	-M	-01	-24
Product	8571-0038 = SuperFly Datalink Patch Cord, Threaded Coupling Plug or Receptacle to RJ45			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Connector and Cable Type	01 = Plug (882-003-X-06); Cable 963-132-26 02 = Receptacle (882-006-X-06); Cable 963-132-26 03 = Plug (882-003-X-07); Cable 963-132-24 04 = Receptacle (882-006-X-07); Cable 963-132-24 05 = Plug (882-003-X-08); Cable 963-135-26 06 = Receptacle (882-006-X-08); Cable 963-135-26			
Overall Length	Length in Inches (12 inch minimum)			



El Ochoito® White

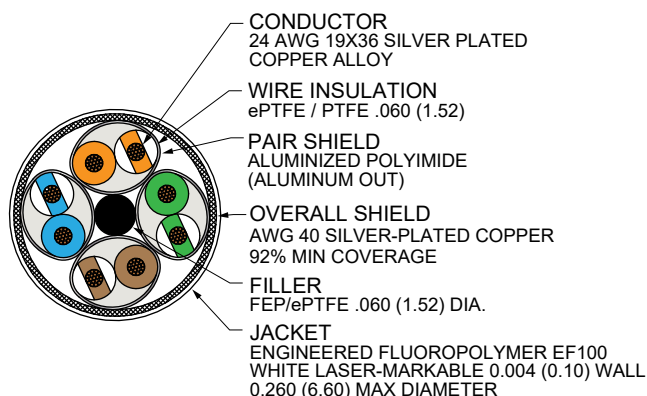
963-033 Cat 6A S/FTP Cable, Aerospace Grade

24 AWG S/FTP Cat 6A Cable

Glenair Part Number	963-033-24
Manufacturer Part Number	RCN9034-24
Manufacturer	Gore

S/FTP 24 AWG cable has an individual foil shield around each data pair for reduced crosstalk and attenuation. This high data rate Ethernet cable features a unique cable jacket material and high-density construction that significantly reduces weight and diameter. Meets TIA-568-2.C Category 6A requirements up to 80 meters. **Qualified to SAE AS6070/5 and /6**

Construction Details



Color Code

Pair #1 Blue, White/Blue · Pair #2 Orange, White/Orange ·
 Pair #3 Green, White/Green · Pair #4 Brown, White/Brown

Specifications

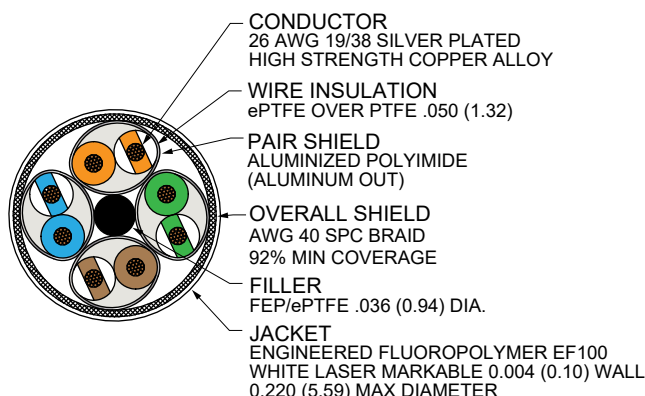
Impedance (ohms)	100 (+10 -5)	
Temperature Rating	-65° to +200°C	
Weight (lbs/1000 ft.)(max.)	42	
Capacitance (pF/ft)	12.5	
Time Delay (ns/ft)	1.24	
Minimum Bend Radius	0.54 (13.72)	
Maximum Attenuation at 80m Length	Frequency	dB
	10 MHz	5.9
	100 MHz	19.1
	250 MHz	31.1
	500 MHz	45.3
NEXT (minimum)	Frequency	dB
	1 MHz	74.3
	10 MHz	59.2
	100 MHz	52.3
	250 MHz	47.9
	500 MHz	42.2

26 AWG S/FTP Cat 6A Cable

Glenair Part Number	963-033-26
Manufacturer Part Number	RCN9047-26
Manufacturer	Gore

S/FTP 26 AWG cable has an individual foil shield around each data pair for reduced crosstalk and attenuation. This high data rate Ethernet cable features a unique cable jacket material and high-density construction that significantly reduces weight and diameter. Meets TIA-568-2.C Category 6A requirement up to 65 meters. **Qualified to SAE AS6070/5 and /6.**

Construction Details



Color Code

Pair #1 Blue, White/Blue · Pair #2 Orange, White/Orange ·
 Pair #3 Green, White/Green · Pair #4 Brown, White/Brown

Specifications

Impedance (ohms)	100 (+10 -5)	
Temperature Rating	-65° to +200°C	
Weight (lbs/1000 ft.) (max.)	32.0	
Capacitance (pF/ft)	12.5	
Time Delay (ns/ft)	1.24	
Minimum Bend Radius	0.44 (10.2)	
Maximum Attenuation at 65m Length	Frequency	dB
	10 MHz	5.9
	100 MHz	19.1
	250 MHz	31.1
	500 MHz	45.3
NEXT (minimum)	Frequency	dB
	1 MHz	74.3
	10 MHz	59.2
	100 MHz	52.3
	250 MHz	47.9
	500 MHz	42.2

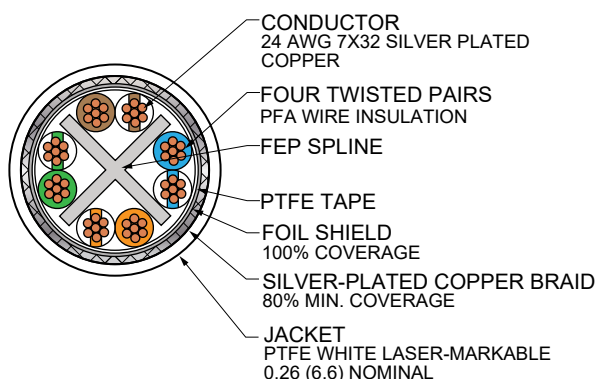
963-037-24 & 963-003-24 Cat 6A S/UTP Cable, Aerospace Grade

24 AWG S/UTP Cat 6A Cable

Glenair Part Number	963-037-24
Manufacturer Part Number	E6A3824
Manufacturer	PIC

S/UTP 24 AWG cable is specially designed for airborne 10 Gigabit Ethernet applications. Twisted pairs are separated by a fluoropolymer spline for reduced crosstalk and attenuation. This 200°C rated cable is Skydrol resistant, RoHS compliant and meets FAA FAR Parts 23 and 25 Appendix F flammability requirements. Laser-markable white PTFE jacket withstands abrasion and chemicals. Meets TIA-568-2.C Category 6A performance up to 246 feet.

Construction Details



Color Code

Pair #1 Blue, White/Blue · Pair #2 Orange, White/Orange · Pair #3 Green, White/Green · Pair #4 Brown, White/Brown

Specifications

Impedance (ohms)	100 ± 15
Temperature Rating	-55° to +200°C
Weight (lbs/100 ft.)	4.5
Capacitance (pF/ft)	14.5
Minimum Bend Radius	.78 (19.81)
Velocity of Propagation %	70
Dielectric Voltage Rating (kV rms)	1.5
DC Resistance, Max (ohms/1000 ft.)	28.5
Max Distance in Feet (m)	246 (75)

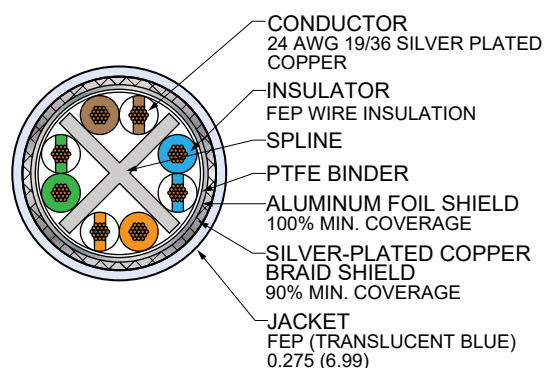
Freq. (MHz)	Attenuation dB/100ft. nom./max.	NEXT dB min.	SRL dB min.
10	2.3/2.6	59.3	25.0
100	7.0/8.4	44.3	19.0
250	11.4/13.7	38.3	15.6
500	16.5/20.0	33.8	13.0

24 AWG S/UTP Cat 6A Cable

Glenair Part Number	963-003-24
Manufacturer Part Number	E6A3826
Manufacturer	PIC

S/UTP 24 AWG cable is small, lightweight and flexible. Twisted pairs are separated by a fluoropolymer spline for reduced crosstalk and attenuation. This 200°C cable is Skydrol resistant, RoHS compliant and meets FAA FAR Parts 23 and 25 Appendix F flammability requirements. Rugged, laser-markable FEP jacket withstands abrasion and chemicals. Meets TIA-568B Category 6A performance up to 240 feet.

Construction Details



Color Code

Pair #1 Blue, White/Blue · Pair #2 Orange, White/Orange · Pair #3 Green, White/Green · Pair #4 Brown, White/Brown

Specifications

Impedance (ohms)	100 ± 10
Temperature Rating	-55° to +200°C
Weight (lbs/100 ft.)	5.5
Capacitance (pF/ft)	14.5
Minimum Bend Radius	1.40 (35.56)
Velocity of Propagation %	70
Dielectric Voltage Rating (kV rms)	1.5
DC Resistance, Max (ohms/1000 ft.)	44.8
Max Distance in Feet	188

Freq. (MHz)	Attenuation dB/100ft. max.	NEXT dB min.	SRL dB min.
10	2.3	59.3	25.0
100	7.5	44.3	20.1
250	18.7	38.3	15.2
500		33.8	15.2

El Ochoito® White

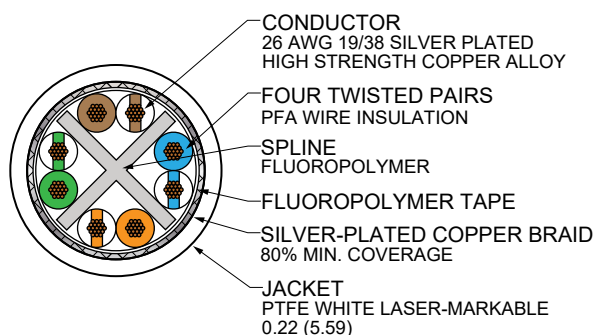
963-132 Cat 8 S/FTP Cable, Aerospace Grade

26 AWG S/UTP Cat 6A Cable

Glenair Part Number	963-003-26
Manufacturer Part Number	E6A3826
Manufacturer	PIC

S/UTP 26 AWG cable is small, lightweight and flexible. Twisted pairs are separated by a fluoropolymer spline for reduced crosstalk and attenuation. This 200°C cable is Skydrol resistant, RoHS compliant and meets FAA FAR Parts 23 and 25 Appendix F flammability requirements. Rugged, laser-markable PTFE jacket withstands abrasion and chemicals. Meets TIA-568-2.C Category 6A performance up to 188 feet.

Construction Details



Color Code

Pair #1 Blue, White/Blue · Pair #2 Orange, White/Orange · Pair #3 Green, White/Green · Pair #4 Brown, White/Brown

Specifications

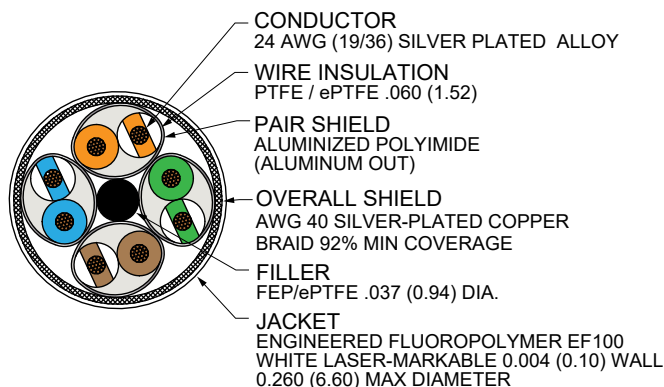
Impedance (ohms)	100 ± 10		
Temperature Rating	-55° to +200°C		
Weight (lbs/100 ft.)	3.05		
Capacitance (pF/ft)	14.5		
Minimum Bend Radius	0.66 (16.76)		
Velocity of Propagation %	70		
Dielectric Voltage Rating (kV rms)	1.5		
DC Resistance, Max (ohms/1000 ft.)	44.8		
Max Distance in Feet	188		
Freq. (MHz)	Attenuation dB/100ft. max.	NEXT dB min.	SRL dB min.
10	3.7	59.3	25.0
100	11.2	44.3	20.1
250	17.4	38.3	15.2
500	24.0	33.8	15.2

24 AWG S/FTP Cat 8 Cable

Glenair Part Number	963-132-24
Manufacturer Part Number	RCN9241-24
Manufacturer	Gore

S/FTP 24 AWG cable with foil wrapped data pair for reduced crosstalk and attenuation. Cable features a unique cable jacket material and high-density construction to reduce weight and diameter. Meets TIA-568-2.D Category 8 requirements up to 22 meters. **Qualified to SAE AS6070/5 and /6**

Construction Details



Color Code

Pair #1 Blue, White/Blue · Pair #2 Orange, White/Orange · Pair #3 Green, White/Green · Pair #4 Brown, White/Brown

Specifications

Impedance (ohms)	100 (+10 /-5)	
Temperature Rating	-65° to +200°C	
Weight (lbs/1000 ft.)(max.)	45	
Capacitance (pF/ft)	12.5	
Time Delay (ns/ft)	1.27	
Maximum Attenuation per 22 m Length	Frequency	dB
	50 MHz	3.9
	100 MHz	5.6
	250 MHz	8.9
	500 MHz	12.8
	1000 MHz	18.6
	1500 MHz	23.2
	2000 MHz	27.2
NEXT (minimum)	Frequency	dB
	50 MHz	49.8
	100 MHz	45.3
	250 MHz	39.3
	500 MHz	34.8
	1000 MHz	30.3
	1500 MHz	27.7
	2000 MHz	25.8

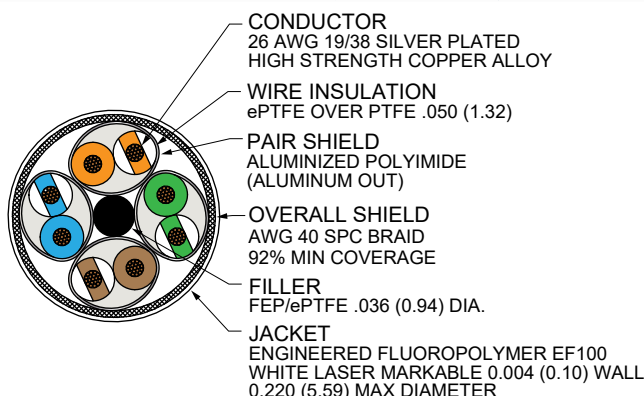
963-135 Cat 8 S/FTP Cable, Aerospace Grade

26 AWG S/FTP Cat 8 Cable

Glenair Part Number	963-132-26
Manufacturer Part Number	RCN9235-26
Manufacturer	Gore

S/FTP 26 AWG cable with foil wrapped data pairs for reduced crosstalk and attenuation. Cable features a unique cable jacket material and high-density construction to reduce weight and diameter. Meets TIA-568-2.D Category 8 requirements up to 18 meters. **Qualified to SAE AS6070/5 and /6.**

Construction Details



Color Code

Pair #1 Blue, White/Blue · Pair #2 Orange, White/Orange · Pair #3 Green, White/Green · Pair #4 Brown, White/Brown

Specifications

Impedance (ohms)	100 (+10 /-5)
Temperature Rating	-65° to +200°C
Weight (lbs/1000 ft.) (max.)	35.0
Capacitance (pF/ft)	12.5
Time Delay (ns/ft)	1.35

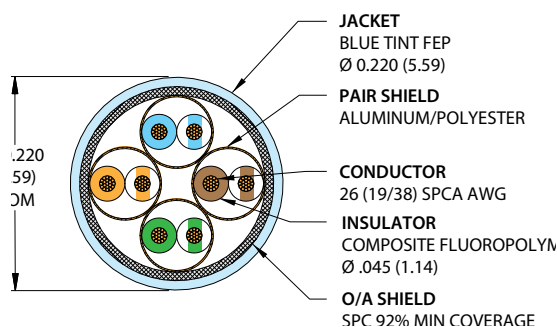
Maximum Attenuation per 18 m Length	Frequency	dB
	50 MHz	3.9
	100 MHz	5.6
	250 MHz	8.9
	500 MHz	12.8
	1000 MHz	18.6
	1500 MHz	23.2
NEXT (minimum)	Frequency	dB
	2000 MHz	27.2
	50 MHz	49.8
	100 MHz	45.3
	250 MHz	39.3
	500 MHz	34.8
	1000 MHz	30.3
	1500 MHz	27.7
	2000 MHz	25.8

26 AWG S/FTP Cat 8 Cable

Glenair Part Number	963-135-26
Manufacturer Part Number	E10026243
Manufacturer	Harbour Industries

S/FTP 26 AWG cable has an individual foil shield around each data pair for reduced crosstalk and attenuation. This high data rate Ethernet cable features a FEP jacket. Meets TIA-568-2.D Category 8 channel requirements up to 20 meters.

Construction Details



Color Code

Pair #1 Blue, White/Blue · Pair #2 Orange, White/Orange · Pair #3 Green, White/Green · Pair #4 Brown, White/Brown

Specifications

Temperature Rating	-55° to -200°C
Weight (lbs/1000 ft.) (max.)	34.6
Minimum Bend Radius	1.10 (27.94)
RoHS compliance	Complies with RoHS (directive 2002/95/ED)

Transmission Characteristics	Frequency	dB Typ/Max
	100 MHz	3.0/3.5
	250 MHz	8.2/9.3
	500 MHz	13.7/15.0
	1000 MHz	20.5/21.26
	1500 MHz	28.1/30.0
	2000 MHz	41.0/43.0

Typ. = average pair loss
Max. = worst pair loss

882-009 Cable Plug, Push-Pull QDC Coupling, USB 3.0



SuperSpeed USB. Ultraminiature. High performance. 882-009 SuperFly Datalink connectors have one, ElOchito® octaxial contact housing eight pin contacts. Compatible with aerospace-grade 90 ohm SuperSpeed USB cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool. 882-009 plugs feature push-pull mating and demating. Braided cable shield terminates to connector with supplied bushing. **Mates to 882-010, -013, -016, and -039 receptacles.**

How To Order Cable Plug

Sample Part Number	882-009	-M	-01
Series	882-009 = Cable Plug		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01 (AI88003) and -02 (AI88004)		

SIZE AND WEIGHT SAVING

- Smallest 40GbE aerospace-grade connector
- Integral strain relief and cable seal
- High density contacts

HARSH ENVIRONMENT

- EMI protection
- Shock and vibration
- Corrosion resistance

882-009 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.

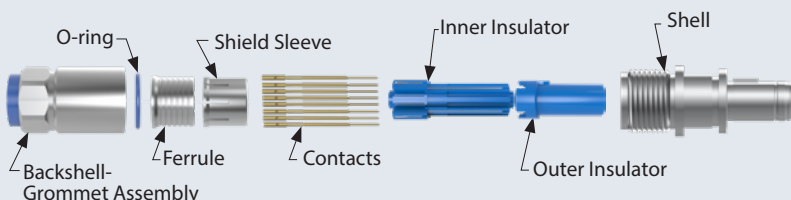
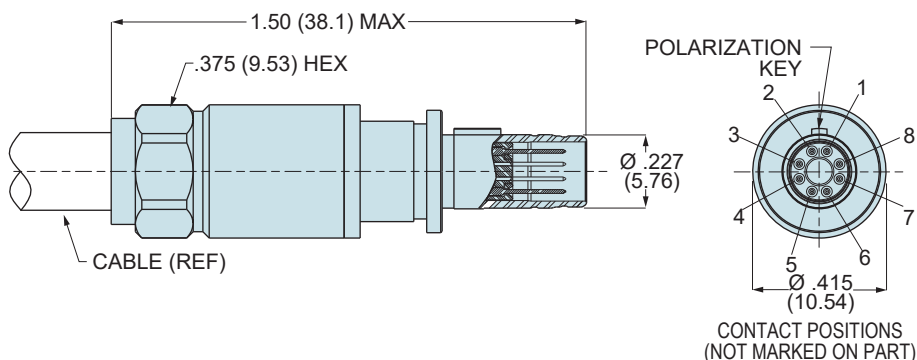


Table I: Cable Accommodated

USB 3.0 Cable			
Dash No.	Cable Part No.	Cable Type	Temp. Rating
-01	963-110	Aerospace-Grade Fluoropolymer Jacket	-65° to +200° C
-02	963-118	Commercial-Grade PVC Jacket	0° to +80° C



Specifications

- ❑ **Operating temp.:** -65° to +175°C (0 to +80°C for commercial-grade cable)
- ❑ **Impedance:** 90 ohms
- ❑ **DWV:** 500 Vrms unmated
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 1000 MΩ min.
- ❑ **Durability:** 2000 mating cycles
- ❑ **Ingress protection:** IP67

Construction

- ❑ **Shell, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** low dielectric thermoplastic
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommet:** fluorosilicone
- ❑ **O-ring:** fluorosilicone
- ❑ **Shield sleeve, ferrule:** copper alloy, electroless nickel plated

Contact Crimp Tools

Hand Crimp Tool



809-015
(M22520/2-01)

Positioner for Hand Crimp Tool



859-101
(K1906)

882-010 Cable Receptacle, Push-Pull QDC Coupling, USB 3.0



SuperSpeed USB. Ultraminiature. High performance. 882-010 SuperFly Datalink connectors have one, El Ochito® octaxial contact housing eight socket contacts. Compatible with aerospace-grade 90 ohm SuperSpeed USB cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool (purchased separately). M8.5 metric mating thread. Gold-plated EMI spring for low shell-to-shell resistance. Fluorosilicone O-rings for water-tight seal. Braided cable shield terminates to connector with supplied bushing. **Mates to 882-009, -018, -033, and -036 plugs.**

How To Order Cable Receptacle

Sample Part Number	882-010	-M	-01
Series	882-010 = Cable Receptacle		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01 (Al88003) and -02 (Al88004)		

SIZE AND WEIGHT SAVING

- Smallest 40GbE aerospace-grade connector
- Integral strain relief and cable seal
- High density contacts

HARSH ENVIRONMENT

- EMI protection
- Shock and vibration
- Corrosion resistance

882-010 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.

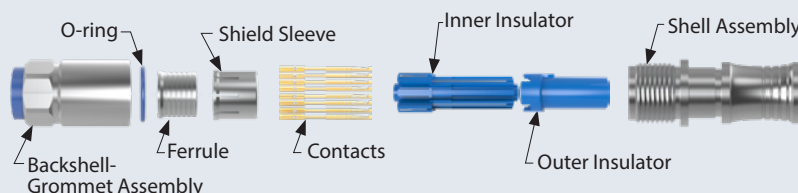
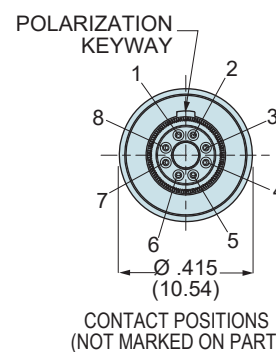
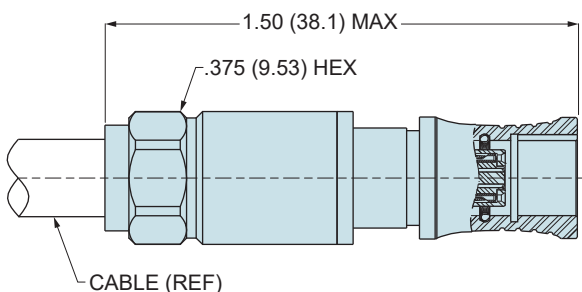


Table I: Cable Accommodated

USB 3.0 Cable			
Dash No.	Cable Part No.	Cable Type	Temp. Rating
-01	963-110	Aerospace-Grade Fluoropolymer Jacket	-65° to +200° C
-02	963-118	Commercial-Grade PVC Jacket	0° to +80° C



Specifications

- ❑ **Operating temp.:** -65° to +175°C (0 To +80°C for commercial-grade cable)
- ❑ **Impedance:** 90 ohms
- ❑ **DWV:** 500 Vrms unmated
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 1000 MΩ min.
- ❑ **Durability:** 2000 mating cycles
- ❑ **Ingress protection:** IP67

Construction

- ❑ **Shell, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** low dielectric thermoplastic
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommet:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **EMI spring:** stainless steel, gold plated
- ❑ **Shield sleeve, ferrule:** copper alloy, electroless nickel plated

Contact Crimp Tools

Hand Crimp Tool



809-015
(M22520/2-01)

Positioner for Hand Crimp Tool



859-101
(K1906)

882-036 Panel Mount Plug, Push-Pull QDC Coupling, USB 3.0

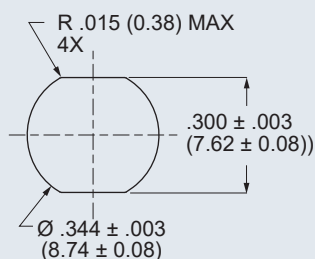


USB 3.0. Ultraminiature. High performance. 882-036 SuperFly Datalink connectors have one, El Ochoito® octaxial contact housing eight pin contacts. Compatible with aerospace-grade 90 ohm SuperSpeed USB 3.0 cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool (purchased separately). Connector features push-pull mating and demating. Fluorosilicone O-rings for water-tight seal. Braided cable shield terminates to connector with supplied bushing. **Mates to 882-010, 882-013, 882-016 and 882-039 receptacles.**

How To Order Panel Mount Plug

Sample Part Number	882-036	-M	-01
Series	882-036 = Panel Mount Plug		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01 (AI88003) thru -02 (AI88004)		

Recommended Panel Cutout



882-036 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.

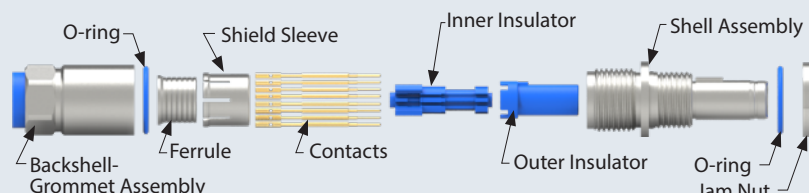
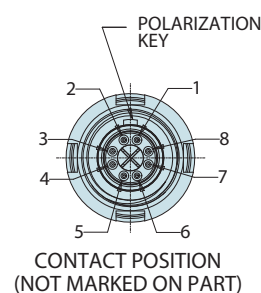
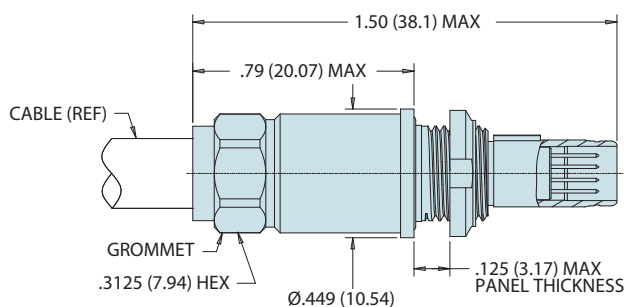


Table I: Cable Accommodated

USB 3.0 Cable			
Dash No.	Cable Part No.	Cable Type	Temp. Rating
-01	963-110	Aerospace-Grade Fluoropolymer Jacket	-65° to +200° C
-02	963-118	Commercial-Grade PVC Jacket	0° to +80° C



Specifications

- Operating temp.: -65° to +175°C
- Impedance: 90 ohms
- DWV: 500 Vrms unmated
- Current Rating: 1.5 A
- IR: 1000 MΩ min.
- Durability: 2000 mating cycles
- Ingress protection: IP67

Construction

- Shell, backshell: aluminum alloy or stainless steel
- Insulators: high-grade rigid dielectric
- Contacts: copper alloy, 50 microinches gold over nickel plating
- Grommet: fluorosilicone
- O-ring: fluorosilicone
- Shield sleeve, ferrule: copper alloy, electroless nickel plated

Contact Crimp Tools

Crimp Tool



809-015
(M22520/2-01)

Positioner for Hand Crimp Tool



859-101
(K1906)

882-039 Panel Mount Receptacle, Push-Pull QDC Coupling, USB 3.0

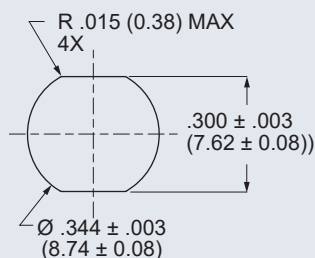


SuperSpeed USB. Ultraminiature. High performance. 882-039 SuperFly Datalink connectors have one, El Ochito® octal contact housing eight socket contacts. Compatible with aerospace-grade 90 ohm SuperSpeed USB cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool (purchased separately). M8.5 metric mating thread. Gold-plated EMI spring for low shell-to-shell resistance. Fluorosilicone O-rings for water-tight seal. Braided cable shield terminates to connector with supplied bushing. **Mates to 882-009, -018, -033, and -036 plugs.**

How To Order Panel Mount Receptacle

Sample Part Number	882-039	-M	-01
Series	882-039 = Panel Mount Receptacle		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01 (AI88003) thru -02 (AI88004)		

Recommended Panel Cutout



882-039 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.

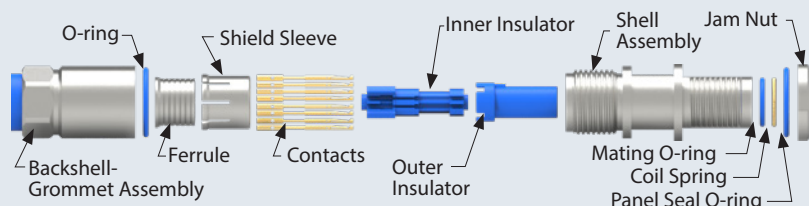
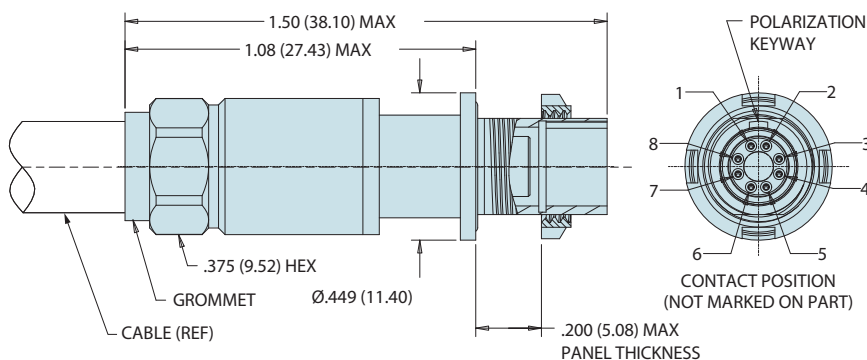


Table I: Cable Accommodated

USB 3.0 Cable			
Dash No.	Cable Part No.	Cable Type	Temp. Rating
-01	963-110	Aerospace-Grade Fluoropolymer Jacket	-65° to +200° C
-02	963-118	Commercial-Grade PVC Jacket	0° to +80° C



Specifications

- Operating temp.: -65° to +175°C (0 To +80°C for commercial-grade cable)
- Impedance: 90 ohms
- DWV: 500 Vrms unmated
- Current Rating: 1.5 A
- IR: 1000 MΩ min.
- Durability: 2000 mating cycles
- Ingress protection: IP67

Construction

- Shell, backshell: aluminum alloy or stainless steel
- Insulators: low dielectric thermoplastic
- Contacts: copper alloy, 50 microinches gold over nickel plating
- Grommet: fluorosilicone
- O-rings: fluorosilicone
- EMI spring: stainless steel, gold plated
- Shield sleeve, ferrule: copper alloy, electroless nickel plated

Contact Crimp Tools

Hand Crimp Tool



809-015
(M22520/2-01)

Positioner for Hand Crimp Tool



859-101
(K1906)

882-018 PCB Plug, Push-Pull QDC Coupling, USB 3.0



USB 3.0. Ultraminiature. Rear panel jam-nut mount. PCB terminals.

882-005 SuperFly Datalink connectors have one, El Ochito® octaxial contact housing eight pin contacts. Attach to .100 (2.54) maximum thickness panel with spanner nut. PC tail contacts are gold plated or solder dipped in 63/37 tin-lead. Contacts are epoxy-sealed and are non-removable. fluorosilicone O-rings for water-tight seal. *Mates to 882-010, -013, -016, and -039 connectors.*

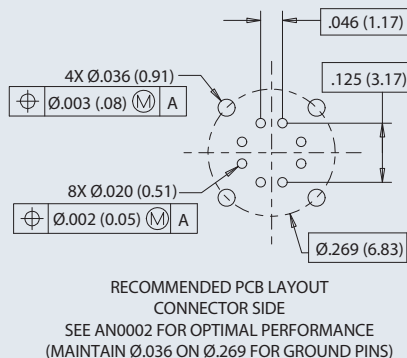
SUPERSPEED

- 5 Gbps
- Low-dielectric insulators

HARSH ENVIRONMENT

- EMI protection
- Water ingress
- Shock and vibration

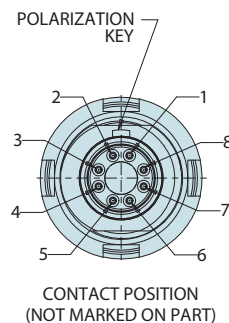
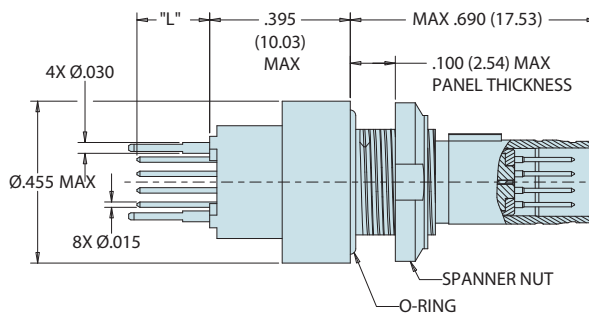
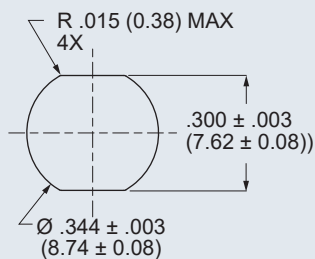
Recommended PC Board Layout



How To Order Panel Mount PCB Plug for USB 3.0

Sample Part Number	882-018	-M	G	-.125
Product	882-018 = Panel Mount PC Tail Plug			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
PC Tail Finish	S = Solder dip, 63/37 tin-lead G = Gold			
PC Tail Length	.080 = .080 in. (2.03 mm.) .125 = .125 in. (3.18 mm.) .175 = .175 in. (4.45 mm.) .200 = .200 in. (5.08 mm.)			

Recommended Panel Cutout



Specifications

- Operating temp.: -65° to +175°C
- Impedance: 90 ohms
- DWV: 500 Vrms unmated
- Current Rating: 1.5 A
- IR: 1000 MΩ min at 500 VAC.
- Durability: 2000 mating cycles
- Ingress protection: IP67

Construction

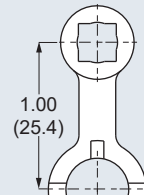
- Shell, jam-nut: aluminum alloy or SST
- Insulators: high-grade rigid dielectric
- Contacts: copper alloy, 50 microinches gold over nickel plating
- O-rings: fluorosilicone
- Potting: epoxy

Spanner Nut Tightening Tool

Nickel-plated tool steel, 1/4" sq. drive
13 - 18 in.-lbs. recommended torque



600-202-E



882-013 PC Tail Panel Receptacle, Push-Pull Coupling, USB 3.0



SuperSpeed USB. Ultraminiature. Rear panel mount. PCB terminals.

882-013 SuperFly Datalink connectors have one, El Ochito® octaxial contact housing eight socket contacts. Attach to .100 (2.54) maximum thickness panel with spanner nut. PC tail contacts are gold plated or solder dipped in 63/37 tin-lead. Contacts are epoxy-sealed and are non-removable. Gold-plated EMI spring for low shell-to-shell resistance. Fluorosilicone O-rings for water-tight seal. **Mates to 882-009, -018, -033 and -036 plugs.**

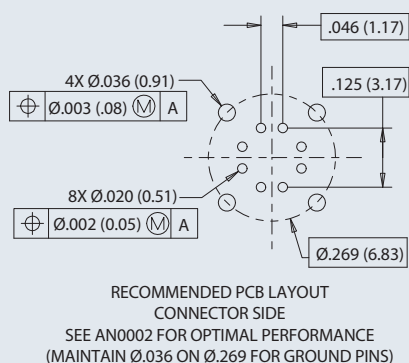
SUPERSPEED

- 5 Gbps
- Low-dielectric insulators

HARSH ENVIRONMENT

- EMI protection
- Water ingress
- Shock and vibration

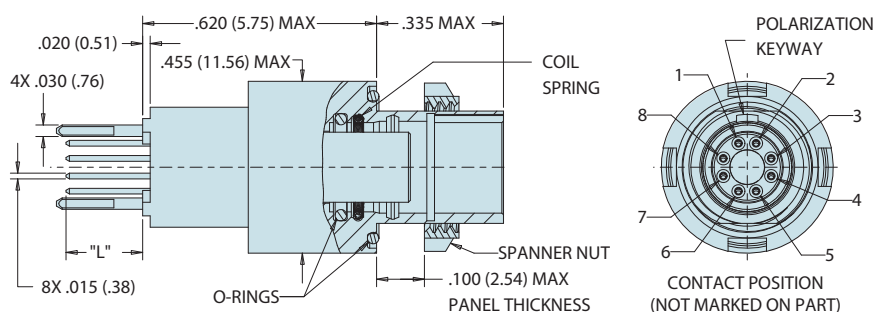
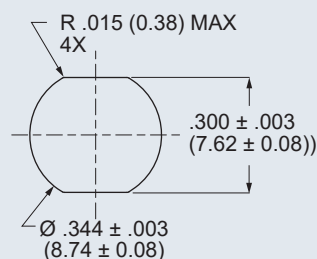
Recommended PC Board Layout



How To Order PCB Panel Mount Receptacle for USB 3.0

Sample Part Number	882-013	- ZR	S	-.080
Product	882-013 = Panel Mount PC Tail Receptacle			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
PC Tail Finish	S = Solder dip, 63/37 tin-lead G = Gold			
PC Tail Length	.080 = .080" (2.03 mm.) .125 = .125" (3.18 mm.) .175 = .175" (4.45 mm.) .200 = .200" (5.08 mm.)			

Recommended Panel Cutout



Specifications

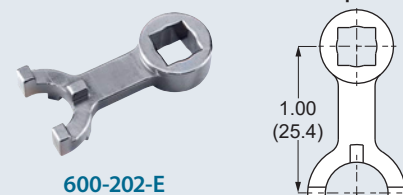
- ❑ **Operating temp.:** -65° to +175°C
- ❑ **Impedance:** 90 ohms
- ❑ **DWV:** 500 Vrms unmated
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 1000 MΩ min.
- ❑ **Durability:** 2000 mating cycles
- ❑ **Ingress protection:** IP67

Construction

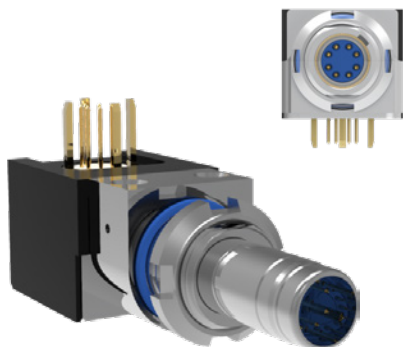
- ❑ **Shell, jam-nut:** aluminum alloy or SST
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **O-rings:** fluorosilicone
- ❑ **EMI spring:** stainless steel, gold plated
- ❑ **Potting:** epoxy

Spanner Nut Tightening Tool

Nickel-plated tool steel, 1/4" sq. drive
13 - 18 in.-lbs. recommended torque



882-033 90° PC Tail Panel Plug, Push-Pull Coupling, USB 3.0



USB 3.0 Ultraminiature. Rear panel jam-nut mount. 90° PCB terminals.

882-033 SuperFly Datalink plugs have eight pin contacts. Attach to .100" (2.54 mm) maximum thickness panel with spanner nut. PC tail contacts are gold plated or solder dipped in 63/37 tin-lead. Contacts are epoxy-sealed and are non-removable. Fluorosilicone O-rings for panel sealing. *Mates to 882-010, -013, -016 and -039.*

SUPERSPEED USB

- 5 Gbps
- Low-dielectric insulators

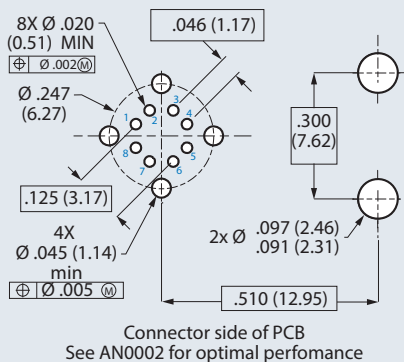
FAST ASSEMBLY

- Pre-tinned PC tail contacts
- Epoxy-sealed terminals

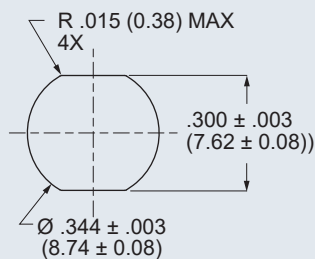
HARSH ENVIRONMENT

- EMI protection, water ingress, shock and vibration

PC Board Layout

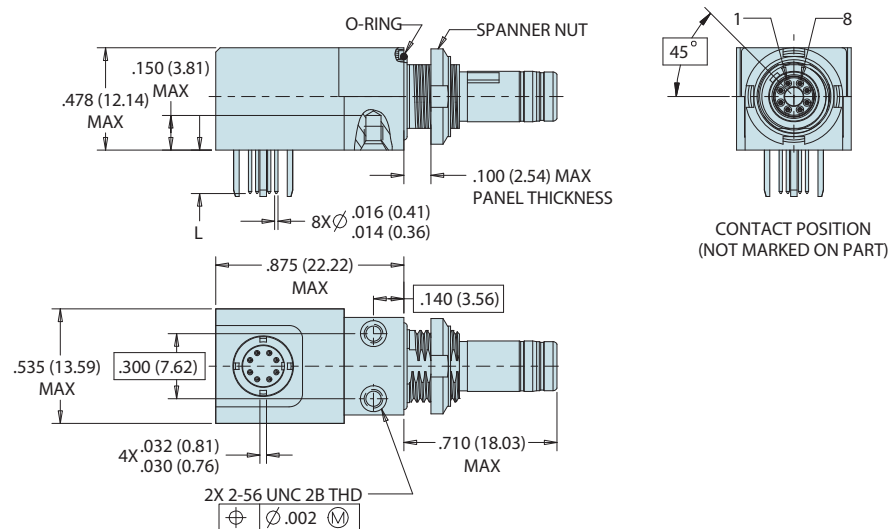


Panel Cutout



How To Order Right Angle PCB Push-Pull Plug

Sample Part Number	882-033	-M	G	-.125
Product	882-033 = Right Angle Panel Mount PC Tail Plug			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
PC Tail Finish	S = Solder dip, 63/37 tin-lead G = Gold			
PC Tail Length	.200 = .200 in. (5.08 mm.)			



Specifications

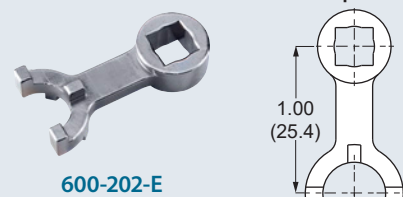
- ❑ Operating temp.: -65° to +175°C
- ❑ Impedance: 90 ohms
- ❑ DWV: 100 Vrms unmated
- ❑ Current Rating: 1.5 A
- ❑ IR: 100 MΩ min. @ 150 Vdc
- ❑ Durability: 2000 mating cycles
- ❑ Ingress protection: IP67

Construction

- ❑ Shell, jam-nut: aluminum alloy or SST
- ❑ Insulators and tray: high-grade rigid dielectric
- ❑ Contacts: copper alloy, 50 microinches gold over nickel plating
- ❑ O-ring: fluorosilicone
- ❑ Potting: epoxy

Spanner Nut Tightening Tool

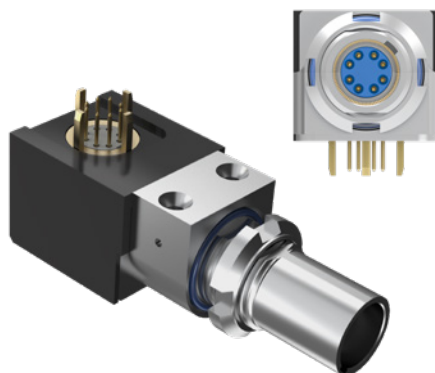
Nickel-plated tool steel, 1/4" sq. drive
13 - 18 in.-lbs. recommended torque



600-202-E



882-016 90° PC Tail Panel Plug, Push-Pull Coupling, USB 3.0



SuperSpeed USB. Ultraminiature. Rear panel mount. PCB terminals.

882-016 SuperFly Datalink connectors have one, El Ochito® octaxial contact housing eight socket contacts. Attach to .100 (2.54) max thickness panel with spanner nut. PC tail contacts are gold plated or solder dipped in 63/37 tin-lead. Contacts are epoxy-sealed and non-removable. EMI spring for low shell-to-shell resistance. Fluorosilicone O-rings for water-tight seal. *Mates to 882-009, -018, -033 and -036 plug.*

SUPERSPEED USB

- 5 Gbps
- Low-dielectric insulators

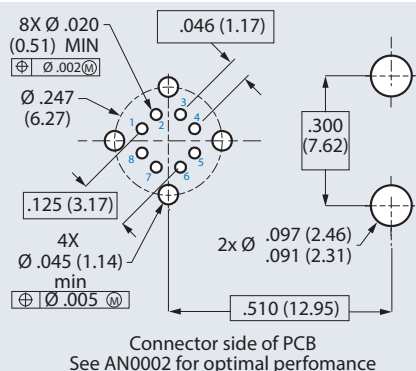
FAST ASSEMBLY

- Pre-tinned PC tail contacts
- Epoxy-sealed terminals

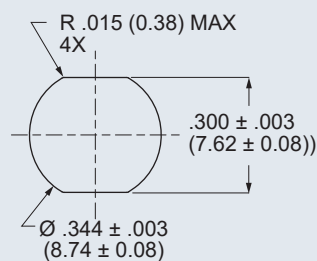
HARSH ENVIRONMENT

- EMI protection, water ingress, shock and vibration

PC Board Layout

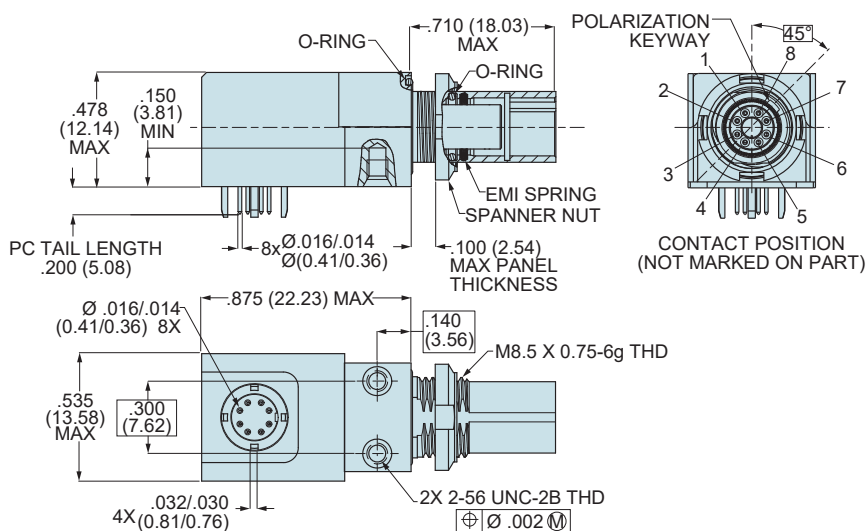


Panel Cutout



How To Order Push-Pull Right Angle PCB Plug

Sample Part Number	882-016	-M	G	-.125
Product	882-016 = Right Angle Panel Mount PC Tail Plug			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
PC Tail Finish	S = Solder dip, 63/37 tin-lead G = Gold			
PC Tail Length	.200 = .200 in. (5.08 mm.)			



Specifications

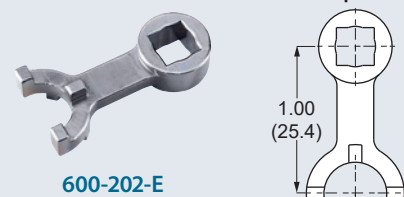
- ❑ **Operating temp.:** -65° to +175°C
- ❑ **Impedance:** 90 ohms
- ❑ **DWV:** 100 Vrms unmatd
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 100 MΩ min. @ 150 Vdc
- ❑ **Durability:** 2000 mating cycles
- ❑ **Ingress protection:** IP67

Construction

- ❑ **Shell, jam-nut:** aluminum alloy or SST
- ❑ **Insulators and tray:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **O-rings:** fluorosilicone
- ❑ **EMI spring:** stainless steel, gold plated
- ❑ **Potting:** epoxy

Spanner Nut Tightening Tool

Nickel-plated tool steel, ¼" sq. drive
13 - 18 in.-lbs. recommended torque



8572-0006 Pre-Wired QDC Cordset, Single-Ended, USB 3.0



Lower installed cost. Save assembly time and cost with pre-wired SuperFly Datalink "Blue" assemblies for SuperSpeed USB. These single-ended Octaxial push-pull cordsets are terminated to USB cable. Two cable types are available: high temperature fluoropolymer aerospace grade cable or commercial grade PVC cable. Series 882 QDC connectors are designed for demanding aerospace environments.

SIZE AND WEIGHT SAVING

- Integral backshell and cable seal
- Push-pull quick-disconnect

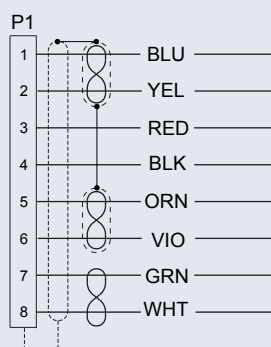
LOWER INSTALLED COST

- Factory-terminated SuperFly connector

HARSH ENVIRONMENT

- Vibration, EMI, moisture, and temperature

Wiring Diagram



How To Order Single Ended Plug or Receptacle USB 3.0 Cordset

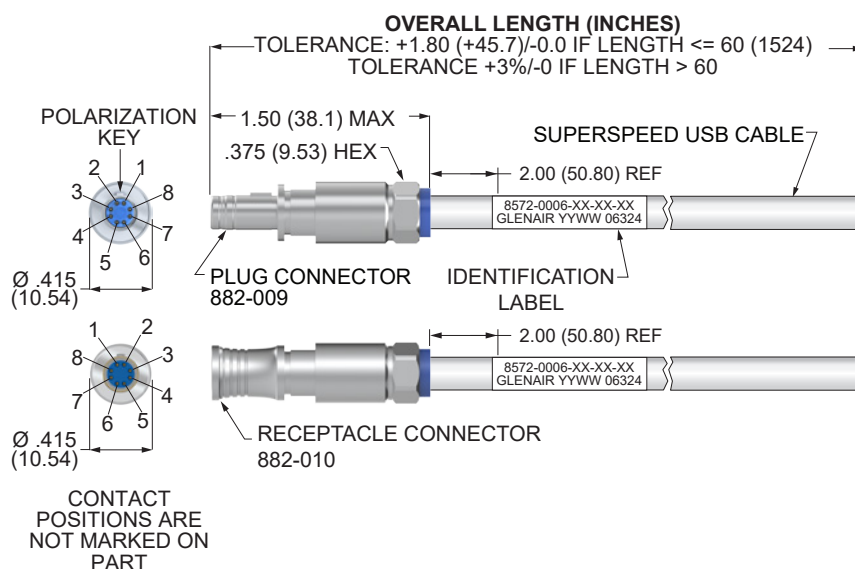
Sample Part Number	8572-0006	- MT	-03	-60
Product	8572-0006 = Pre-wired Single-ended, Cordset			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Order Code Connector Type and Cable Type	01 = Plug connector, aerospace-grade cable* 02 = Plug connector, commercial-grade cable** 03 = Receptacle connector, aerospace-grade cable* 04 = Receptacle connector, commercial-grade cable** *Cable P/N 963-110 high temp fluoropolymer jacket **Cable P/N 963-118 black PVC jacket			
Overall Length	Length in Inches (12 inch minimum)			

Construction

- ❑ **Shell, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommets:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **Shield sleeve, ferrule:** copper alloy, electroless nickel plated
- ❑ **Cable:** aerospace-grade fluoropolymer or commercial grade PVC

Specifications

- ❑ **Operating temp.:** -65° to +175°C, aerospace-grade
0 to +80°C, commercial-grade
- ❑ **Impedance:** 90 ohms
- ❑ **DWV:** 100 Vrms
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 100 MΩ min.
- ❑ **Durability:** 2000 mating cycles



8572-0007 Pre-Wired QDC Cordset, Plug-to-Receptacle, USB 3.0



Lower installed cost. 100% tested. Save assembly time and cost with pre-wired SuperFly Datalink "Blue" assemblies for USB 3.0. These back-to-back push-pull cordsets are terminated to SuperSpeed USB cable. Two cable types are available: high temperature fluoropolymer aerospace grade cable or commercial grade PVC cable. Series 882 QDC Octaxial connectors are designed for demanding aerospace environments subject to high vibration, temperature extremes and moisture.

SIZE AND WEIGHT SAVING

- <1/2 inch (12.7 mm.) diameter
- Push-pull quick-disconnect

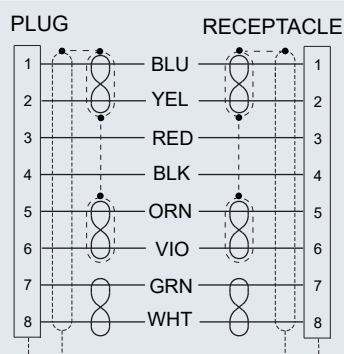
LOWER INSTALLED COST

- Factory-terminated
- 100% tested

HARSH ENVIRONMENT

- Vibration, EMI, moisture, and temperature

Wiring Diagram



How To Order Double Ended Plug or Receptacle USB 3.0 Cordset

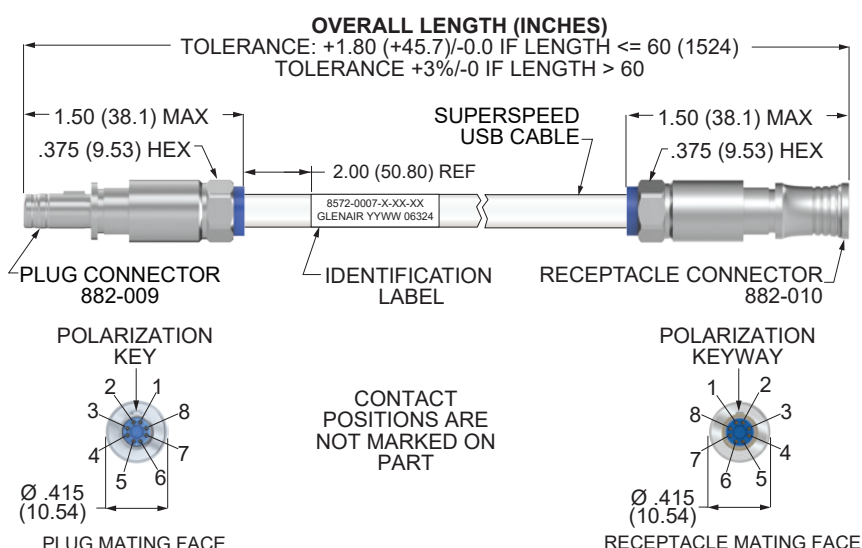
Sample Part Number	8572-0007	- M	-01	-36
Product	8572-0007 = Pre-wired Plug to Receptacle Cordset			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Cable Type	01 = Aerospace grade SuperSpeed USB cable fluoropolymer jacket, -65°C to +200°C Cable part number 963-110 02 = Commercial grade SuperSpeed USB cable Black PVC jacket, 0°C to +80°C Cable part number 963-118			
Overall Length	Length in Inches (12 inch minimum)			

Construction

- ❑ **Shell, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommets:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **Shield sleeve, ferrule:** copper alloy, electroless nickel plated
- ❑ **Cable:** aerospace-grade or commercial grade SuperSpeed USB. See cable data sheets for full specifications..

Specifications

- ❑ **Operating temp.:** -65° to +175 °C, aerospace-grade 0 to +80°C, commercial-grade
- ❑ **Impedance:** 90 ohms
- ❑ **DWV:** 100 Vrms
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 100 MΩ min.
- ❑ **Durability:** 2000 mating cycles



8572-0008 QDC Patch Cord, SuperFly-to-Standard-USB 3.0 Plug



Standard USB connectors. Commercial grade. Save assembly time and cost with pre-wired SuperFly Datalink "Blue" assemblies for SuperSpeed USB. Available with Type A, Type B or μ B interfaces, these cordsets have a SuperFly QDC Octaxial connector on one end and a standard USB 3.0 connector on the other end.

SuperFly Connector Construction

- ☐ **Shell, backshell:** aluminum alloy or SST
- ☐ **Insulators:** high-grade rigid dielectric
- ☐ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ☐ **Grommet:** fluorosilicone
- ☐ **O-rings:** fluorosilicone
- ☐ **Shield/sleeve, ferrule:** copper alloy, nickel plated
- ☐ **Cable:** commercial-grade shielded USB 3.0 with black LSZH jacket

Specifications

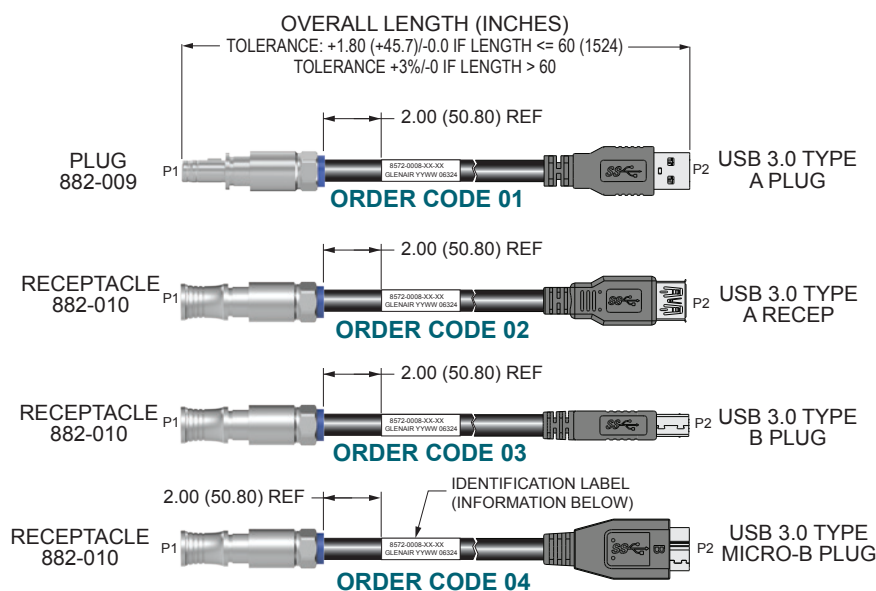
- ☐ **Operating temp.:** -0° to +80°C
- ☐ **Impedance:** 90 ohms
- ☐ **DWV:** 100 Vrms
- ☐ **Current Rating:** 1.5 A
- ☐ **IR:** 100 M Ω min.

SuperFly Connector Mating Face



How To Order SuperFly to USB 3.0 Plug Patchcord

Sample Part Number	8572-0008	- M	-01	-24
Product	8572-0008 = Pre-wired SuperFly QDC Plug to Standard USB 3.0 Connector			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Order Code Connector Types	01 = Plug connector to USB 3.0 Type A plug 02 = Receptacle connector to USB 3.0 Type A receptacle 03 = Receptacle connector to USB 3.0 Type B plug 04 = Receptacle connector to USB 3.0 Type μ B plug			
Overall Length	Length in Inches (12 inch minimum)			



LABEL INFORMATION

8572-0008-X-XX-XX
GLENAIR YYWW 06324

882-011 Cable Plug, Threaded Coupling, USB 3.0



SuperSpeed USB. Ultraminiature. High performance. 882-011 SuperFly Datalink connectors have one, El Ocho[®] octaxial contact housing eight pin contacts. Compatible with aerospace-grade 90 ohm SuperSpeed USB cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool. 882-011 plugs have a rotating coupling nut with M8.5 metric thread. Fluorosilicone O-rings for water-tight seal. Braided cable shield terminates to connector with supplied bushing. **Mates to 882-012, -014, -015, and -042 receptacles.**

SIZE AND WEIGHT SAVING

- Smallest 40GbE aerospace-grade connector
- Integral strain relief and cable seal
- High density contacts

HARSH ENVIRONMENT

- EMI protection
- Shock and vibration
- Corrosion resistance

How To Order Cable Plug			
Sample Part Number	882-011	-M	-01
Series	882-011 = Cable Plug		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01 (See A188003) or -02 (See A188004)		

882-011 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.

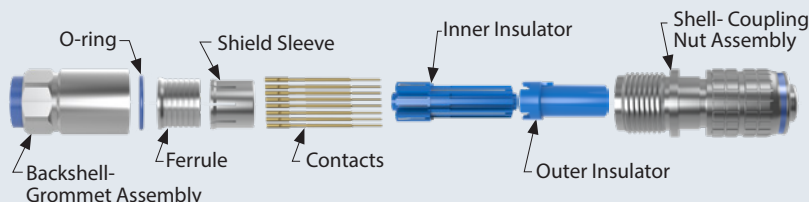
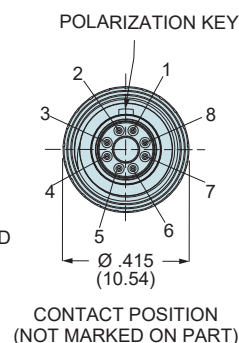
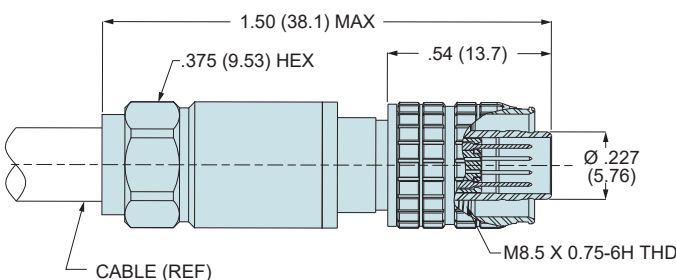


Table I: Cable Accommodated

USB 3.0 Cable			
Dash No.	Cable Part No.	Cable Type	Temp. Rating
-01	963-110	Aerospace-Grade Fluoropolymer Jacket	-65° to +200° C
-02	963-118	Commercial-Grade PVC Jacket	0° to +80° C



Specifications

- ❑ **Operating temp.:** -65° to +175°C (0 To +80°C for commercial-grade cable)
- ❑ **Impedance:** 90 ohms
- ❑ **DWV:** 500 Vrms unmatd
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 1000 MΩ min.
- ❑ **Durability:** 2000 mating cycles
- ❑ **Ingress protection:** IP67

Construction

- ❑ **Shell, coupling nut, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommet:** fluorosilicone
- ❑ **O-ring:** fluorosilicone
- ❑ **Shield sleeve, ferrule:** copper alloy, electroless nickel plated

Contact Crimp Tools

Hand Crimp Tool



809-015
(M22520/2-01)

Positioner for Hand Crimp Tool



859-101
(K1906)

882-014 Cable Receptacle, Threaded Coupling, USB 3.0



SuperSpeed USB. Ultraminiature. High performance. 882-014 SuperFly Datalink connectors have one, El Ochito® octaxial contact housing eight socket contacts. Compatible with aerospace-grade 90 ohm SuperSpeed USB cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool (purchased separately). M8.5 metric mating thread. Gold-plated EMI spring for low shell-to-shell resistance. Fluorosilicone O-rings for water-tight seal. Braided cable shield terminates to connector with supplied bushing. **Mates to 882-011 plug.**

How To Order Cable Receptacle

Sample Part Number	882-014	-M	-01
Series	882-014 = Cable Receptacle		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01 (See AI88003) or -02 (See AI88004)		

SIZE AND WEIGHT SAVING

- Smallest 40GbE aerospace-grade connector
- Integral strain relief and cable seal
- High density contacts

HARSH ENVIRONMENT

- EMI protection
- Shock and vibration
- Corrosion resistance

882-014 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.

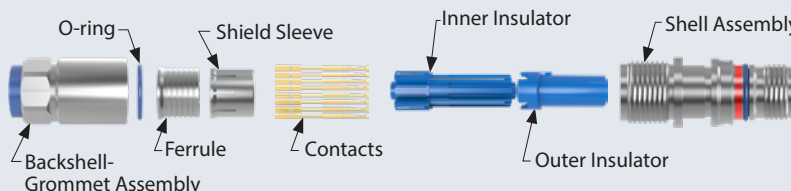
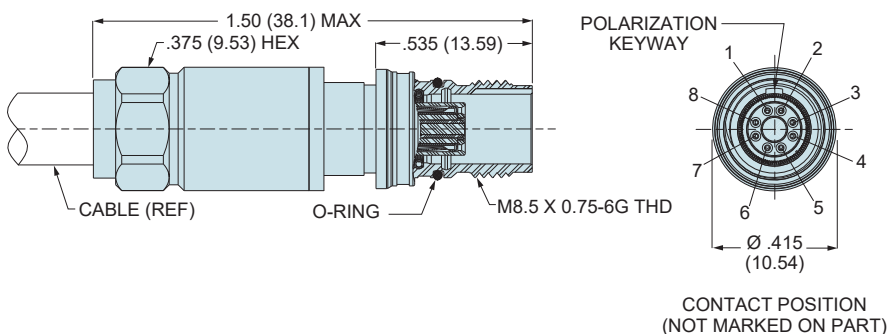


Table I: Cable Accommodated

USB 3.0 Cable			
Dash No.	Cable Part No.	Cable Type	Temp. Rating
-01	963-110	Aerospace-Grade Fluoropolymer Jacket	-65° to +200° C
-02	963-118	Commercial-Grade PVC Jacket	0° to +80° C



Specifications

- **Operating temp.:** -65° to +175°C (0 To +80°C for commercial-grade cable)
- **Impedance:** 90 ohms
- **DWV:** 500 Vrms unmated
- **Current Rating:** 1.5 A
- **IR:** 1000 MΩ min.
- **Durability:** 2000 mating cycles
- **Ingress protection:** IP67

Construction

- **Shell, backshell:** aluminum alloy or SST
- **Insulators:** low dielectric constant thermoplastic
- **Contacts:** copper alloy, 50 microinches gold over nickel plating
- **Grommet:** fluorosilicone
- **O-rings:** fluorosilicone
- **EMI spring:** stainless steel, gold plated
- **Shield sleeve, ferrule:** copper alloy, electroless nickel plated

Contact Crimp Tools

Hand Crimp Tool



809-015
(M22520/2-01)

Positioner for Hand Crimp Tool



859-101
(K1906)

882-042 Panel Mount Receptacle, Threaded Coupling, USB 3.0

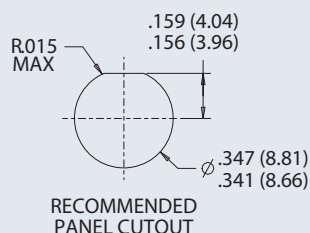


SuperSpeed USB. Ultraminiature. High performance. 882-042 SuperFly Datalink connectors have one, El Ochito® octaxial contact housing eight socket contacts. Compatible with aerospace-grade 90 ohm SuperSpeed USB cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool (purchased separately). M8.5 metric mating thread. Gold-plated EMI spring for low shell-to-shell resistance. Fluorosilicone O-rings for water-tight seal. Braided cable shield terminates to connector with supplied bushing. **Mates to 882-011 plug.**

How To Order Panel Mount Receptacle

Sample Part Number	882-042	-M	-01
Series	882-042 = Panel Mount Receptacle		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01 (See A188003-01) or -02 (See A188003-02)		

Recommended Panel Cutout



882-042 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.

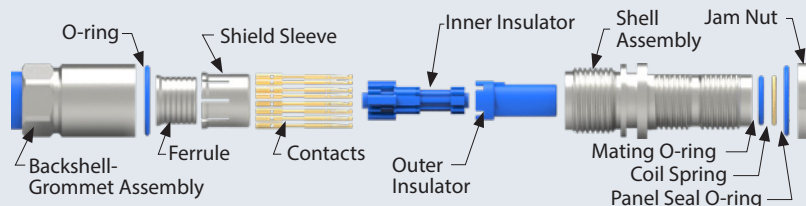
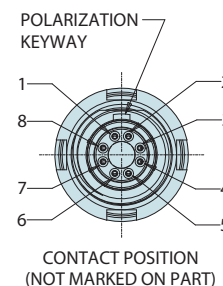
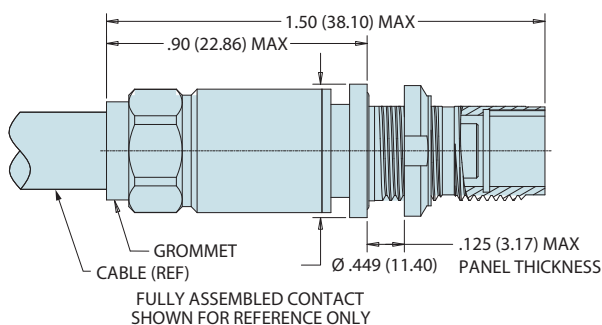


Table I: Cable Accommodated

USB 3.0 Cable			
Dash No.	Cable Part No.	Cable Type	Temp. Rating
-01	963-110	Aerospace-Grade Fluoropolymer Jacket	-65° to +200° C
-02	963-118	Commercial-Grade PVC Jacket	0° to +80° C



Specifications

- ❑ **Operating temp.:** -65° to +175°C (0 To +80°C for commercial-grade cable)
- ❑ **Impedance:** 90 ohms
- ❑ **DWV:** 500 Vrms unmated
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 1000 MΩ min.
- ❑ **Durability:** 2000 mating cycles
- ❑ **Ingress protection:** IP67

Construction

- ❑ **Shell, backshell:** aluminum alloy or SST
- ❑ **Insulators:** low dielectric constant thermoplastic
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommet:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **EMI spring:** stainless steel, gold plated
- ❑ **Shield sleeve, ferrule:** copper alloy, electroless nickel plated

Contact Crimp Tools

Hand Crimp Tool



809-015
(M22520/2-01)

Positioner for Hand Crimp Tool



859-101
(K1906)

882-012 PC Tail Receptacle, Threaded Coupling, USB 3.0



SuperSpeed USB. Ultraminiature. Rear panel mount. PCB terminals.

882-012 SuperFly Datalink connectors have one, El Ochito® octaxial contact housing eight socket contacts. Attach to .100" (2.54 mm) maximum thickness panel with spanner nut. PC tail contacts are gold plated or solder dipped in 63/37 tin-lead. Contacts are epoxy-sealed and are non-removable. Gold-plated EMI spring for low shell-to-shell resistance. Fluorosilicone O-rings for water-tight seal.

Mates to 882-011 plug.

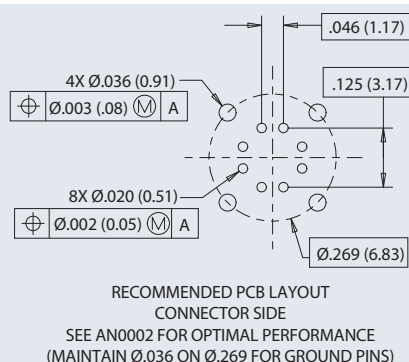
SUPERSPEED USB

- 5 Gbps
- Low-dielectric insulators

HARSH ENVIRONMENT

- EMI protection
- Water ingress
- Shock and vibration

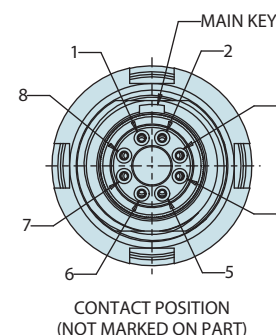
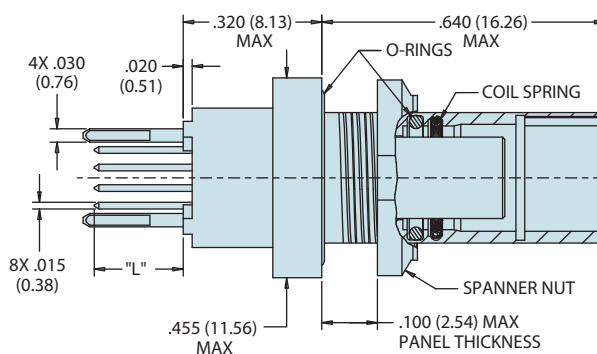
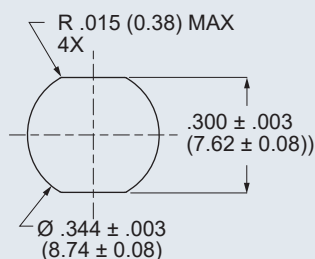
Recommended PC Board Layout



How To Order Push-Pull, Straight PCB Receptacles

Sample Part Number	882-012	- Z2	S	-.080
Product	882-012 = Panel Mount PC Tail Receptacle			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
PC Tail Finish	S = Solder dip, 63/37 tin-lead G = Gold			
PC Tail Length	.080 = .080" (2.03 mm.) .125 = .125" (3.18 mm.) .175 = .175" (4.45 mm.) .200 = .200" (5.08 mm.)			

Recommended Panel Cutout



Specifications

- Operating temp.: -65° to +175°C
- Impedance: 90 ohms
- DWV: 500 Vrms unmated
- Current Rating: 1.5 A
- IR: 1000 MΩ min.
- Durability: 2000 mating cycles
- Ingress protection: IP67

Construction

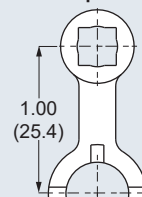
- Shell, jam-nut: aluminum alloy or SST
- Insulators: high-grade rigid dielectric
- Contacts: copper alloy, 50 microinches gold over nickel plating
- O-rings: fluorosilicone
- EMI spring: stainless steel, gold plated
- Potting: epoxy

Spanner Nut Tightening Tool

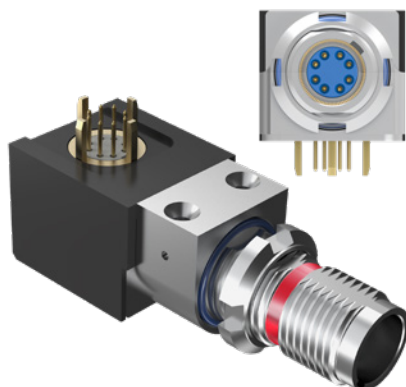
Nickel-plated tool steel, 1/4" sq. drive
13 - 18 in.-lbs. recommended torque



600-202-E



882-015 90° PC Tail Panel Receptacle, Threaded Coupling, USB 3.0



SuperSpeed USB. Ultraminiature. Rear panel mount. PCB terminals.

882-015 SuperFly Datalink connectors have one, El Ochito® octaxial contact housing eight socket contacts. Attach to .100 (2.54) maximum thickness panel with spanner nut. PC tail contacts are gold plated or solder dipped in 63/37 tin-lead. Contacts are epoxy-sealed and are non-removable. EMI spring for low shell-to-shell resistance. Fluorosilicone O-rings for water-tight seal. **Mates to 882-011 plug.**

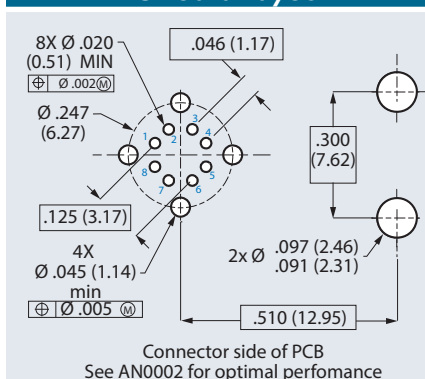
SUPERSPEED USB

- 5 Gbps
- Low-dielectric insulators

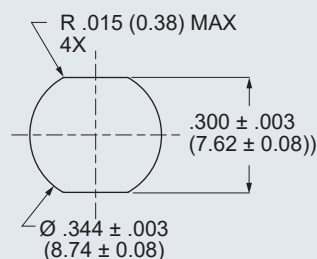
HARSH ENVIRONMENT

- EMI protection
- Water ingress
- Shock and vibration

PC Board Layout

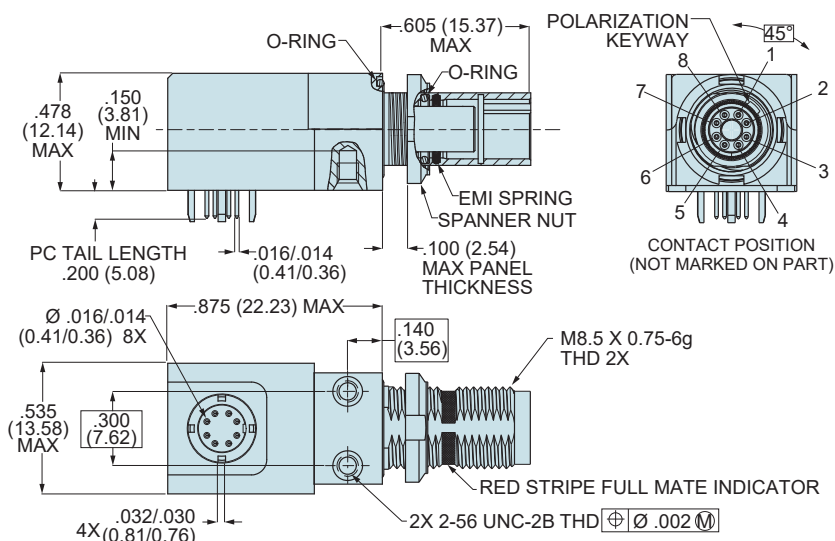


Panel Cutout



How To Order Push-Pull, Right Angle Receptacles

Sample Part Number	882-015	-M	G	-.125
Product	882-015 = Right Angle, Panel Mount PC Tail Receptacle			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
PC Tail Finish	S = Solder dip, 63/37 tin-lead G = Gold			
PC Tail Length	.200 = .200 in. (5.08 mm.)			



Specifications

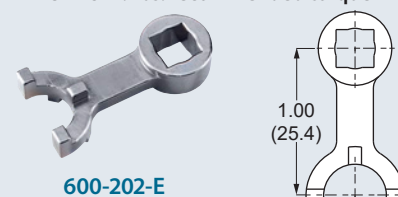
- ❑ Operating temp.: -65° to +175°C
- ❑ Impedance: 90 ohms
- ❑ DWV: 100 Vrms unmated
- ❑ Current Rating: 1.5 A
- ❑ IR: 100 MΩ min. @ 150 Vdc
- ❑ Durability: 2000 mating cycles
- ❑ Ingress protection: IP67

Construction

- ❑ Shell, jam-nut: aluminum alloy or SST
- ❑ Insulators and tray: high-grade rigid dielectric
- ❑ Contacts: copper alloy, 50 microinches gold over nickel plating
- ❑ O-rings: fluorosilicone
- ❑ EMI spring: stainless steel, gold plated
- ❑ Potting: epoxy

Spanner Nut Tightening Tool

Nickel-plated tool steel, 1/4" sq. drive
13 - 18 in.-lbs. recommended torque



8572-0010 Threaded Coupling Cordset, Single-Ended, USB 3.0



Lower installed cost. Save assembly time and cost with pre-wired SuperFly Datalink "Blue" Octaxial assemblies for SuperSpeed USB. These single-ended cordsets are terminated to USB cable. Two cable types are available: high temperature fluoropolymer aerospace grade cable or commercial grade PVC cable. Series 882 connectors are designed for demanding aerospace environments.

SIZE AND WEIGHT SAVING

- Integral backshell and cable seal
- Secure threaded coupling nut

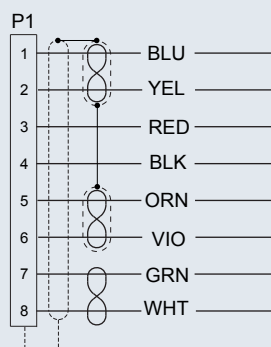
LOWER INSTALLED COST

- Factory-terminated SuperFly connector

HARSH ENVIRONMENT

- Vibration, EMI, moisture, and temperature

Wiring Diagram



How To Order Single-Ended SuperFly USB 3.0 Cordset

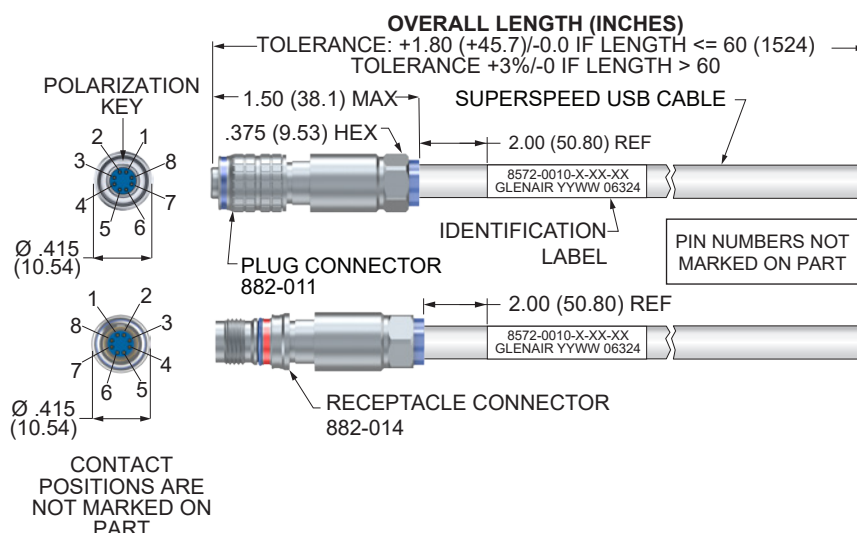
Sample Part Number	8572-0010	- M	-01	-36
Product	8572-0010 = Pre-wired, Single-ended Cordset			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Order Code Connector Type and Cable Type	01 = Plug connector, aerospace-grade cable* 02 = Plug connector, commercial-grade cable** 03 = Receptacle connector, aerospace-grade cable* 04 = Receptacle connector, commercial-grade cable** *Cable P/N 963-110 high temp fluoropolymer jacket **Cable P/N 963-118 black PVC jacket			
Overall Length	Length in Inches (12 inch minimum)			

Construction

- **Shell, coupling nut, backshell:** aluminum alloy or stainless steel
- **Insulators:** high-grade rigid dielectric
- **Contacts:** copper alloy, 50 microinches gold over nickel plating
- **Grommets:** fluorosilicone
- **O-rings:** fluorosilicone
- **Shield sleeve, ferrule:** copper alloy, electroless nickel plated
- **Cable:** aerospace-grade or commercial grade SuperSpeed USB. See cable data sheets for full specifications.

Specifications

- **Operating temp.:** -65° to +175°C, aerospace-grade
0 to +80°C, commercial-grade
- **Impedance:** 90 ohms
- **DWV:** 100 Vrms
- **Current Rating:** 1.5 A
- **IR:** 100 MΩ min.
- **Durability:** 2000 mating cycles



8572-0011 Threaded Coupling Corsdet, Plug-to-Receptacle, USB 3.0



Lower installed cost. 100% tested.
Save assembly time and cost with pre-wired SuperFly Datalink "Blue" Octaxial assemblies for USB 3.0. These back-to-back cordsets are terminated to USB cable. Two cable types are available: high temperature fluoropolymer aerospace grade cable or commercial grade PVC cable. Series 882 connectors are designed for demanding aerospace environments subject to high vibration, temperature extremes and moisture.

SIZE AND WEIGHT SAVING

- <1/2 inch (12.7 mm.) diameter
- Secure threaded coupling

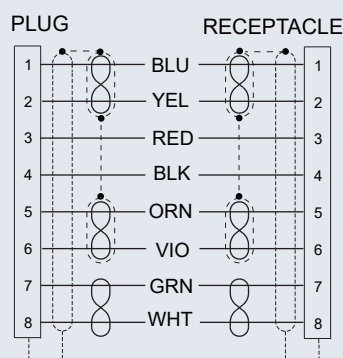
LOWER INSTALLED COST

- Factory-terminated
- 100% tested

HARSH ENVIRONMENT

- Vibration, EMI, moisture, and temperature

Wiring Diagram



How To Order Double-Ended SuperFly USB 3.0 Cordset

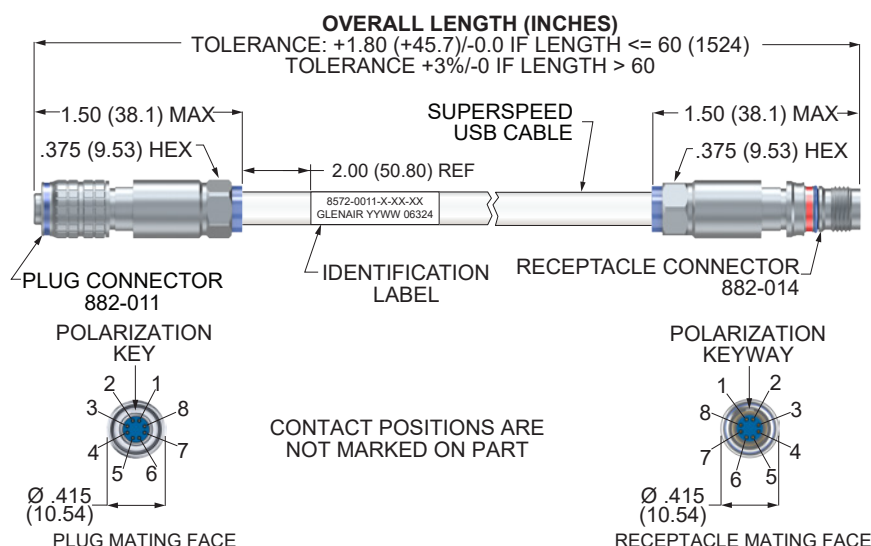
Sample Part Number	8572-0011	- M	-01	-36
Product	8572-0011 = Pre-wired SuperFly Plug to Receptacle Double-ended Cordset			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Cable Type	01 = Aerospace grade SuperSpeed USB cable fluoropolymer jacket, +200°C, laser-markable Cable part number 963-110 02 = Commercial grade SuperSpeed USB cable Black PVC jacket, +80°C Cable part number 963-118			
Overall Length	Length in Inches (12 inch minimum)			

Construction

- ❑ **Shell, coupling nut, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommets:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **Shield sleeve, ferrule:** copper alloy, electroless nickel plated
- ❑ **Cable:** aerospace-grade or commercial grade SuperSpeed USB. See cable data sheets for full specifications..

Specifications

- ❑ **Operating temp.:** -65° to +175°C, aerospace-grade
0 to +80°C, commercial-grade
- ❑ **Impedance:** 90 ohms
- ❑ **DWV:** 100 Vrms
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 100 MΩ min.
- ❑ **Durability:** 2000 mating cycles



8572-0013 Threaded Coupling Patch Cord, SuperFly-to-USB 3.0



SuperFly Connector Construction

- ☐ Shell, coupling nut, backshell: aluminum or SST
- ☐ Insulators: high-grade rigid dielectric
- ☐ Contacts: copper alloy, 50 microinches gold over nickel plating
- ☐ Grommet: fluorosilicone
- ☐ O-rings: fluorosilicone
- ☐ Shieldsleeve, ferrule: copper alloy, nickel plated
- ☐ Cable: commercial grade shielded USB 3.0 with black LSZH jacket

Specifications

- ☐ Operating temp.: 0° to +80°C
- ☐ Impedance: 90 ohms
- ☐ DWV: 100 Vrms unmated
- ☐ Current Rating: 1.5 A
- ☐ IR: 100 MΩ min.

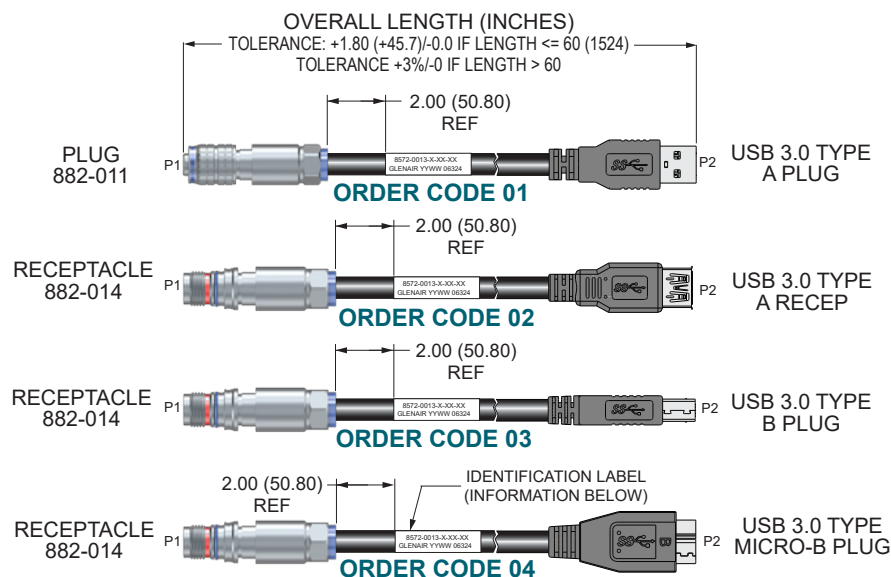
SuperFly Connector Mating Face



Standard USB connectors. Commercial grade. Save assembly time and cost with pre-wired SuperFly Datalink "Blue" Octaxial assemblies for SuperSpeed USB. Available with Type A, Type B or µB interfaces, these cordsets have a SuperFly connector on one end and a standard USB 3.0 connector on the other end.

How To Order SuperFly to USB 3.0 Plug Patchcord

Sample Part Number	8572-0013	-M	-01	-24
Product	8572-0013 = Pre-wired SuperFly Connector to standard USB 3.0 connector. Double-ended Cordset			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Order Code Connector Types	01 = Plug connector to USB 3.0 Type A plug 02 = Receptacle connector to USB 3.0 Type A receptacle 03 = Receptacle connector to USB 3.0 Type B plug 04 = Receptacle connector to USB 3.0 Type µB plug			
Overall Length	Length in Inches (12 inch minimum)			



LABEL INFORMATION

8572-0013-X-XX-XX
GLENAIR YYWW 06324

SuperSpeed USB Cables 963-110 and 963-118

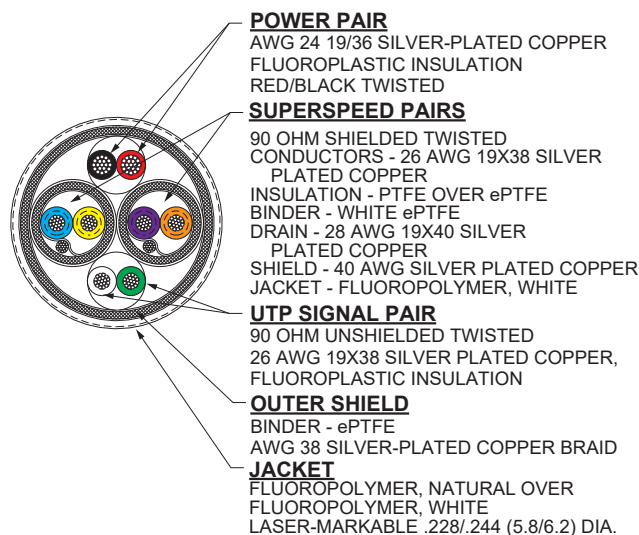
Aerospace Grade SuperSpeed USB Cable

Glenair Part Number
963-110

High performance, high temperature cable delivers dependable signal integrity over longer cable lengths. Fluoropolymer jacket can be laser-marked. Low-skew SuperSpeed data pairs have individual braid shields.

-65° to +200°C.

Construction Details



Color Code

SuperSpeed pairs VIO/ORN and BLU/YEL · Power wires RED, BLK · Low speed pair WHT/GRN.

Specifications

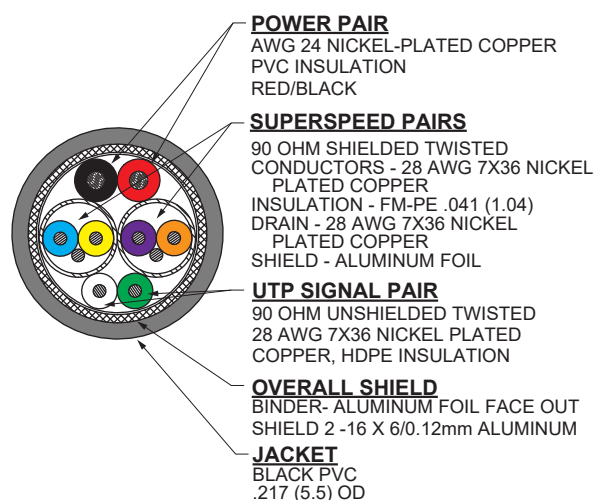
Impedance (ohms)	90 ± 5	
Temperature Rating	-65° to +200°C	
Voltage Rating	< 50 Vac	
Dielectric Withstanding Voltage	100 Vac rms	
Minimum Bend Radius		
Static	.591 (15)	
Dynamic	2.362 (60)	
Weight	57 g/m nominal	
Attenuation (SDD21)	Freq. (GHz)	dB/m max.
	.625	1.2
	1.25	1.7
	2.5	2.5
	5.0	3.9
	7.5	5.0

Commercial Grade SuperSpeed USB Cable

Glenair Part Number
963-118

90 ohm commercial-grade cable features PVC jacket. SuperSpeed data pairs feature low dielectric constant foamed PE insulation. Each SuperSpeed pair has an aluminized polyester shield. Overall shield is aluminum foil and aluminum wire braid.

Construction Details



Color Code

SuperSpeed pairs VIO/ORN and BLU/YEL · Power wires RED, BLK · Low speed pair WHT/GRN.

Specifications

Impedance (ohms)	90 ± 7 (USB 3.0 pairs)	
Impedance (ohms)	90 ± 15% (USB 2.0 pair)	
Temperature rating	0 to +80°C	
Voltage	30V	
Intra-pair skew	15 ps/1.5m	
Differential to common mode	20 dB/cable @ 0.1-7.5 GHz	
Frequency (GHz)	IL (dB/1.5m)	NEXT (dB)
0.1	1.5	32
1.25	5.0	
2.5	7.5	32
3.0		23
7.5	25.0	23

882-019 Cable Plug, Push-Pull QDC Coupling



SIZE AND WEIGHT SAVING

- .710 inch (18.03 mm.) diameter
- Integral banding platform
- High density contacts

HIGH SPEED

- HDMI and DisplayPort 1.4
- El Ochito® Technology

HARSH ENVIRONMENT

- EMI protection
- Shock and vibration
- Temperature extremes
- Corrosion resistance

HDMI 2.0 and DisplayPort 1.4. Ultraminiature. High performance. 882-019 SuperFly Datalink connectors have one El Ochito® octaxial contact and ringed by eighteen discrete pin contacts. Compatible with aerospace-grade cable. Supplied as an unassembled kit. Terminate wires to contacts with crimp tool. 882-019 plugs feature push-pull mating and demating. Braided cable shield terminates to connector banding platform. **Mates to 882-020 and 882-022 receptacles.**

How To Order Cable Plug

Sample Part Number	882-019	-M	-01
Series	882-019 = Cable Plug		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01, -02		

882-019 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.

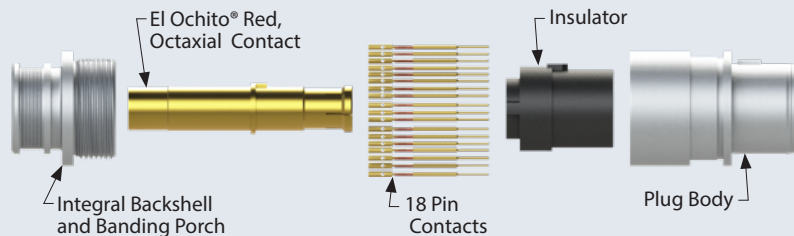
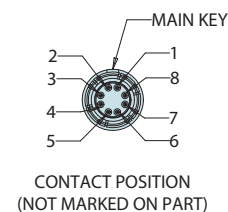
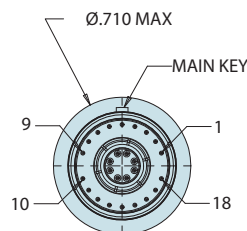
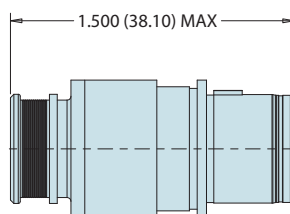


Table I: Cable Accommodated

Dash No	Cable Part No.	Ref Cable O.D.
-01	963-120	.350 - .404 (8.89 - 10.26)
-02	963-127	.337-.415 (8.56 - 10.54)



Specifications

- ❑ Operating temp.: -65° to +175°C
- ❑ Impedance: 100 ohms
- ❑ DWV: 500 Vrms unmated
- ❑ Current Rating: 1.5 A
- ❑ IR: 1000 MΩ min at 500 VAC.
- ❑ Durability: 2000 mating cycles

Construction

- ❑ Shell, backshell: aluminum alloy or stainless steel
- ❑ Insulators: rigid dielectric
- ❑ Contacts: gold plated, copper alloy
 - 858-031 octaxial contact
 - 857-308 signal contact
- ❑ Shield sleeve: copper alloy/N.A.

963-120 Dash No.

Dash 1	Duraelectric Light -65°C to +200°C, O.D. .404 (10.26)
Dash 2	LSZH Polyurethane -40°C to +90°C, O.D. .372 (9.45)
Dash 3	FEP -65°C to +200°C, O.D. .350 (8.89)

963-127 Dash No.

Dash 1	Duraelectric Light -65°C to +200°C, O.D. .415 (10.54)
Dash 2	LSZH Polyurethane -40°C to +90°C, O.D. .359 (9.12)
Dash 3	FEP -65°C to +200°C, O.D. .337 (8.56)

Crimp Tools

Hand Crimp Tool
809-015
(M22520/2-01)

Positioner for Hand
Crimp Tool
859-101
(K1906)

882-020 Cable Receptacle, Push-Pull QDC Coupling



SIZE AND WEIGHT SAVING

- .710 inch (18.03 mm.) diameter
- Integral banding platform
- High density contacts

HIGH SPEED

- HDMI and DisplayPort 1.4
- El Ochito® Technology

HARSH ENVIRONMENT

- EMI protection
- Shock and vibration
- Temperature extremes
- Corrosion resistance

HDMI 2.0 and DisplayPort 1.4. Ultraminiature. High performance. 882-020 SuperFly Datalink connectors have one El Ochito® octaxial contact ringed by eighteen discrete socket contacts. Compatible with aerospace-grade cable. Supplied as an unassembled kit. Terminate wires to contacts with crimp tool. 882-020 receptacles feature push-pull mating and demating and are IP67 rated in the mated condition. Gold-plated EMI spring for low shell-to-shell resistance. Fluorosilicone O-rings for water-tight seal. Braided cable shield terminates to connector banding platform. **Mates to 882-019 and 882-021 receptacles.**

How To Order Cable Receptacle

Sample Part Number	882-020	-M	-01
Series	882-020 = Cable Receptacle		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01, -02		

882-020 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.

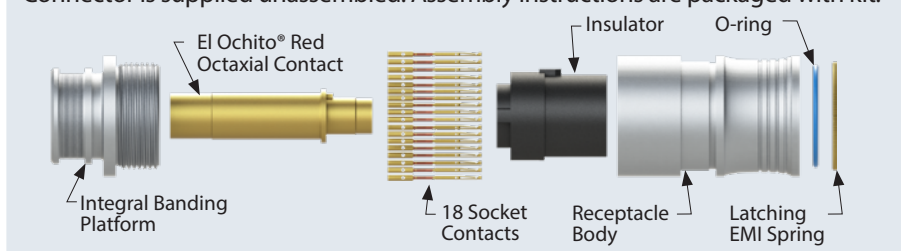
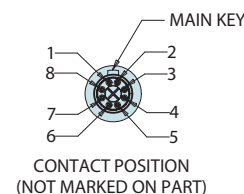
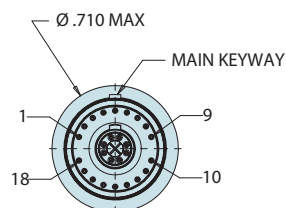
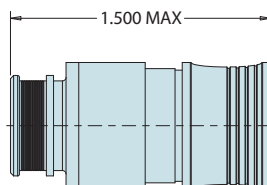


Table I: Cable Accommodated

Dash No	Cable Part No.	Ref Cable O.D.
-01	963-120	.350 - .404 (8.89 - 10.26)
-02	963-127	.337-.415 (8.56 - 10.54)



Specifications

- ❑ **Operating temp.:** -65° to +175°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 500 Vrms unmatd
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 1000 MΩ min at 500 VAC.
- ❑ **Durability:** 2000 mating cycles

Construction

- ❑ **Shell, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** rigid dielectric
- ❑ **Contacts:** gold plated, copper alloy
 - 858-030 octaxial contact
 - 857-309 signal contact
- ❑ **Shield sleeve:** copper alloy/N.A.

963-120 Dash No.

Dash 1	Duraelectric Light -65°C to +200°C, O.D. .404 (10.26)
Dash 2	LSZH Polyurethane -40°C to +90°C, O.D. .372 (9.45)
Dash 3	FEP -65°C to +200°C, O.D. .350 (8.89)

963-127 Dash No.

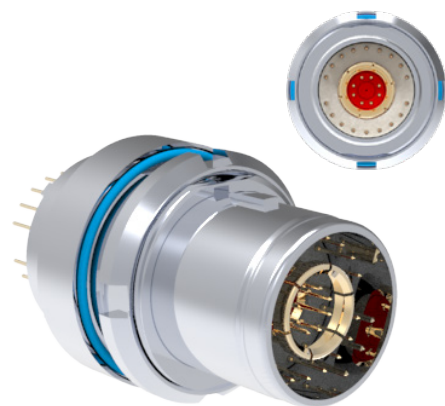
Dash 1	Duraelectric Light -65°C to +200°C, O.D. .415 (10.54)
Dash 2	LSZH Polyurethane -40°C to +90°C, O.D. .359 (9.12)
Dash 3	FEP -65°C to +200°C, O.D. .337 (8.56)

Crimp Tools

Hand Crimp Tool
809-015
(M22520/2-01)

Positioner for Hand
Crimp Tool
859-101
(K1906)

882-021 PC Tail, Panel Mount Plug, Push-Pull QDC Coupling



**HDMI 2.0 and DisplayPort 1.4.
Ultraminiature. Rear panel mount.
PCB connector.**

882-021 SuperFly Datalink plugs have one El Ochito® octaxial contact ringed by eighteen discrete pin contacts. Attach to .125" (3.17 mm) maximum thickness panel with spanner nut. PC tail contacts are gold plated or solder dipped in 63/37 tin-lead. Contacts are epoxy-sealed and are non-removable. Fluorosilicone O-rings for water-tight seal. ***Mates to 882-020 and 882-022.***

SIZE AND WEIGHT SAVING

- .805 inch (20.45 mm.) diameter

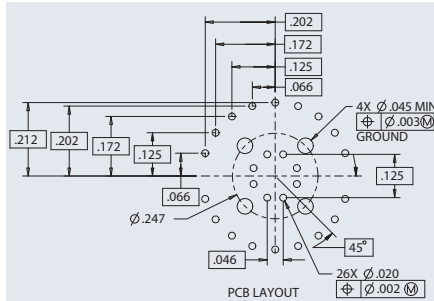
HIGH SPEED

- HDMI and DisplayPort 1.4
- El Ochito® Technology

HARSH ENVIRONMENT

- EMI protection
- Water ingress
- Shock and vibration

Recommended PC Board Layout

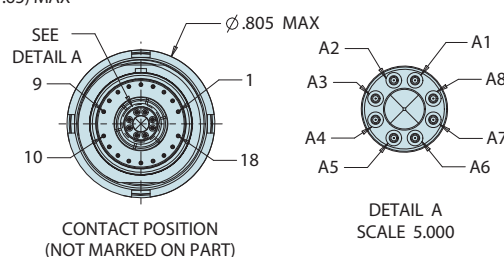
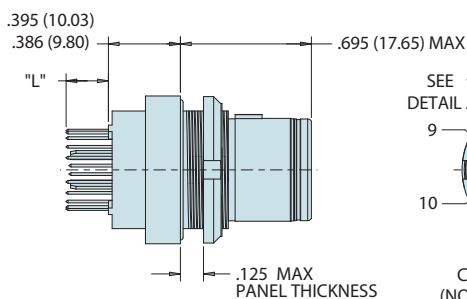
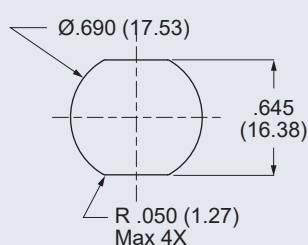


**for optimal performance, see Glenair
application note AN0002**

How To Order PCB Plugs for HDMI and DisplayPort

Sample Part Number	882-021	- Z2	S	-.080
Product	882-021 = Panel Mount PC Tail Plug			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
PC Tail Finish	S = Solder dip, 63/37 tin-lead G = Gold			
PC Tail Length	.080 = .080" (2.03 mm.) .125 = .125" (3.18 mm.) .175 = .175" (4.45 mm.) .200 = .200" (5.08 mm.)			

Recommended Panel Cutout



Specifications

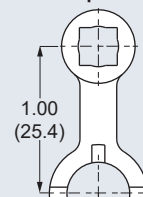
- ❑ **Operating temp.:** -65° to +175°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 500 Vrms unmated
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 1000 MΩ min.
- ❑ **Durability:** 2000 mating cycles
- ❑ **Ingress protection:** IP67

Construction

- ❑ **Shell, jam-nut:** aluminum alloy or SST
- ❑ **Insulators:** low-dielectric material
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **O-rings:** fluorosilicone blend
- ❑ **Potting:** epoxy

Spanner Nut Tightening Tool

Nickel-plated tool steel alloy, 1/4" sq. drive
23 - 28 in.-lbs. recommended torque



600-272-A

882-022 PC Tail, Panel Mount Receptacle, Push-Pull QDC Coupling



100 ohm, Ultraminiature. Rear panel mount. PCB Connector.

882-022 SuperFly Datalink receptacles have one El Ochito® octaxial contact ringed by eighteen discrete socket contacts. Attach to .125 (3.17) maximum thickness panel with spanner nut. PC tail contacts are gold plated or solder dipped in 63/37 tin-lead. Contacts are epoxy-sealed and are non-removable. EMI spring for low shell-to-shell resistance. Fluorosilicone O-rings for water-tight seal. *Mates to 882-019 & 882-021 connectors.*

SIZE AND WEIGHT SAVING

- .805 inch (20.45 mm.) diameter

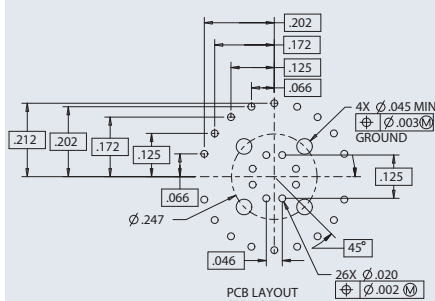
HIGH SPEED

- HDMI and DisplayPort 1.4
- El Ochito® Technology

HARSH ENVIRONMENT

- EMI protection
- Water ingress
- Shock and vibration

Recommended PC Board Layout

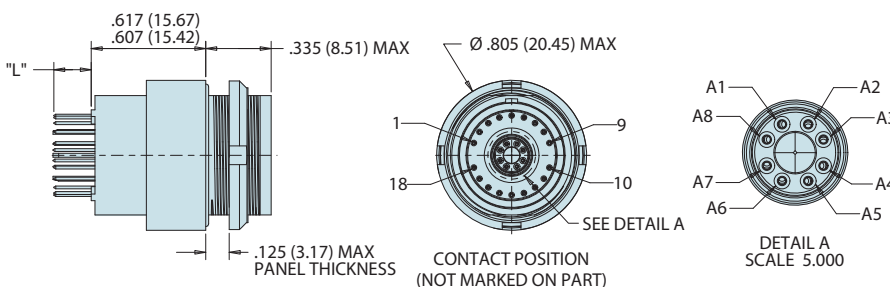
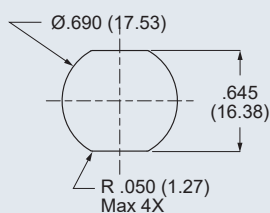


for optimal performance, see glenair application note AN0002

How To Order PCB Receptacle for HDMI and DisplayPort

Sample Part Number	882-022	- Z2	S	-.080
Product	882-022 = Panel Mount PC Tail Receptacle			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
PC Tail Finish	S = Solder dip, 63/37 tin-lead G = Gold			
PC Tail Length	.080 = .080" (2.03 mm.) .125 = .125" (3.18 mm.) .175 = .175" (4.45 mm.) .200 = .200" (5.08 mm.)			

Recommended Panel Cutout



Specifications

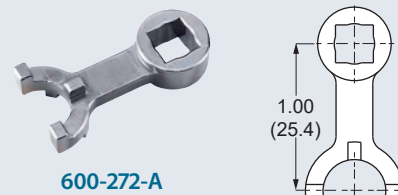
- ❑ Operating temp.: -65° to +175°C
- ❑ Impedance: 100 ohms
- ❑ DWV: 500 Vrms unmated
- ❑ Current Rating: 1.5 A
- ❑ IR: 1000 MΩ min.
- ❑ Durability: 2000 mating cycles
- ❑ Ingress protection: IP67

Construction

- ❑ Shell, jam-nut: aluminum alloy or SST
- ❑ Insulators: low-dielectric material
- ❑ Contacts: copper alloy, 50 microinches gold over nickel plating
- ❑ O-rings: fluorosilicone blend
- ❑ Potting: epoxy

Spanner Nut Tightening Tool

Nickel-plated tool steel, 1/4" sq. drive
23 - 28 in.-lbs. recommended torque



8573-0029 SuperFly QDC Single-Ended Assembly, HDMI and DP 1.4



Multi-Gig, 100 ohm, 100% tested. Single-ended Octaxial push-pull assemblies are terminated to 100 ohm cable. Series 882 Quick-Disconnect (QDC) connectors are designed for demanding aerospace environments. Save assembly time and cost with pre-wired SuperFly Datalink™ "Red" assemblies for high-speed applications.

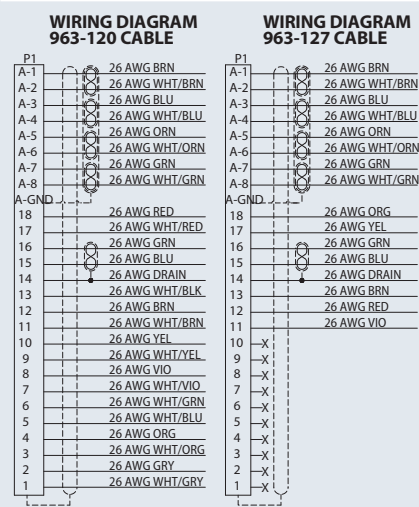
SIZE AND WEIGHT SAVING

- Integral backshell and cable seal
- Push-pull quick-disconnect

LOWER INSTALLED COST

- Factory-terminated SuperFly connector

Wiring Diagram



How To Order Single-Ended Assembly, HDMI and DP

Sample Part Number	8573-0029	- MT	-03	-60
Product	8573-0029 = Pre-wired Single-Ended Cordset			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Order Code	See Table I for cable order code			
Overall Length	Length in Inches (12 inch minimum)			

Table I: Cable Order Code

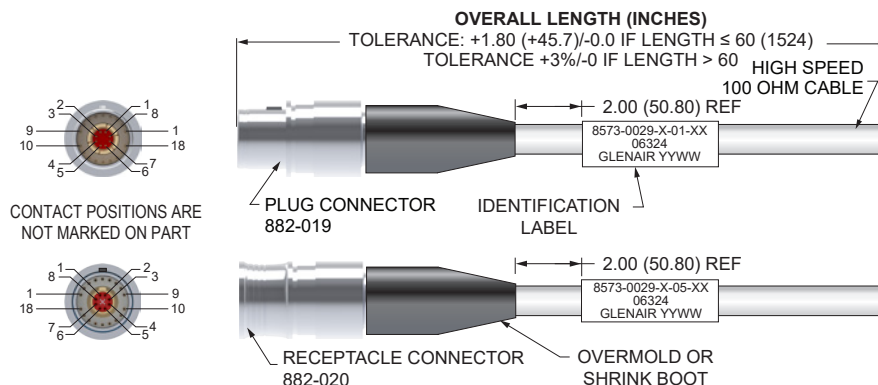
Order Code	Connector Part No.	Plug/Rcpt	Data Protocol	Cable	Cable Jacket	Overmold/Shrink Boot
01	882-019-X-01	Plug	HDMI 2.0/DP 1.4	963-120-1	Duralectric Light	Duralectric Ovrmld
02	882-019-X-01	Plug	HDMI 2.0/DP 1.4	963-120-2	Poly-U LSZH	Polyamide Ovrmld
03	882-019-X-01	Plug	HDMI 2.0/DP 1.4	963-120-3	FEP	Shrink Boot
04	882-019-X-02	Plug	HDMI 2.0/DP 1.4	963-127-1	Duralectric Light	Duralectric Ovrmld
05	882-019-X-02	Plug	HDMI 2.0/DP 1.4	963-127-2	Poly-U LSZH	Polyamide Ovrmld
06	882-019-X-02	Plug	HDMI 2.0/DP 1.4	963-127-3	FEP	Shrink Boot
07	882-020-X-01	Rcpt	HDMI 2.0/DP 1.4	963-120-1	Duralectric Light	Duralectric Ovrmld
08	882-020-X-01	Rcpt	HDMI 2.0/DP 1.4	963-120-2	Poly-U LSZH	Polyamide Ovrmld
09	882-020-X-01	Rcpt	HDMI 2.0/DP 1.4	963-120-3	FEP	Shrink Boot
10	882-020-X-02	Rcpt	HDMI 2.0/DP 1.4	963-127-1	Duralectric Light	Duralectric Ovrmld
11	882-020-X-02	Rcpt	HDMI 2.0/DP 1.4	963-127-2	Poly-U LSZH	Polyamide Ovrmld
12	882-020-X-02	Rcpt	HDMI 2.0/DP 1.4	963-127-3	FEP	Shrink Boot

Construction

- **Shell, backshell:** aluminum alloy or stainless steel
- **Insulators:** high-grade rigid dielectric
- **Contacts:** copper alloy, 50 microinches gold over nickel plating
- **Grommets:** fluorosilicone
- **O-rings:** fluorosilicone
- **Shield sleeve, shield sleeve:** copper alloy
- **Cable:** aerospace-grade fluoropolymer, FEP, LSZH polyurethane, or Duralectric® Lite

Specifications

- **Operating temperature**
Duralectric Light: -65° to +200°C,
FEP: -65°C to 200°C
LSZH Polyurethane: -40°C to 90°C
- **Impedance:** 100 ohms
- **DWV:** 300 Vrms
- **Current Rating:** 1.5 A
- **IR:** 10 MΩ min.
- **Durability:** 2000 mating cycles



8573-0030 SuperFly QDC Cordset, HDMI and DisplayPort 1.4



Lower installed cost. 100% tested. Series 882 Quick-Disconnect (QDC) Octaxial connectors are designed for demanding aerospace environments subject to high vibration, temperature extremes and moisture. Save assembly time and cost with pre-wired SuperFly Datalink "Red" assemblies for high-speed, multi-gig applications. Push-pull cordsets are terminated to 100 ohm cable.

SIZE AND WEIGHT SAVING

- <1/2 inch (12.7 mm.) diameter
- Push-pull quick-disconnect

LOWER INSTALLED COST

- Factory-terminated and 100% tested

HARSH ENVIRONMENT

- Vibration, EMI, moisture, and temperature

Construction

- ❑ **Shell, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **O-Rings/Grommets:** fluorosilicone
- ❑ **Shield sleeve and ferrull:** copper alloy
- ❑ **Cable:** FEP, polyurethane, or Duralectric® Lite

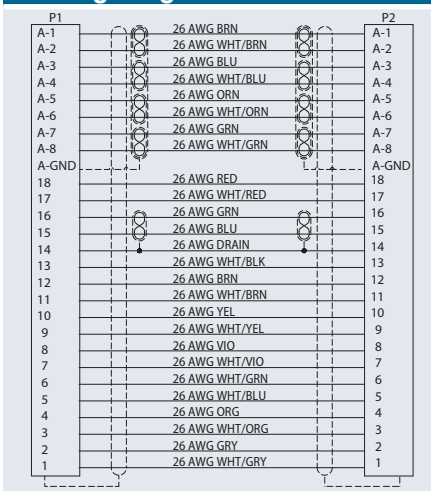
Specifications

- ❑ **Operating temperature**
Duralectric Light: -65° to +200°C,
FEP: -65°C to +200°C
LSZH Polyurethane: -40°C to +90°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 100 Vrms
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 10 MΩ min.
- ❑ **Durability:** 2000 mating cycles

How To Order QDC Cordset, HDMI and DP

Sample Part Number	8573-0030	- M	-01	-36
Product	8573-0030 = Plug to Receptacle Cordset			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Cable Type	See Table I for cable order code			
Overall Length	Length in Inches (12 inch minimum)			

Wiring Diagram 963-120 Cable



Wiring Diagram 963-127 Cable

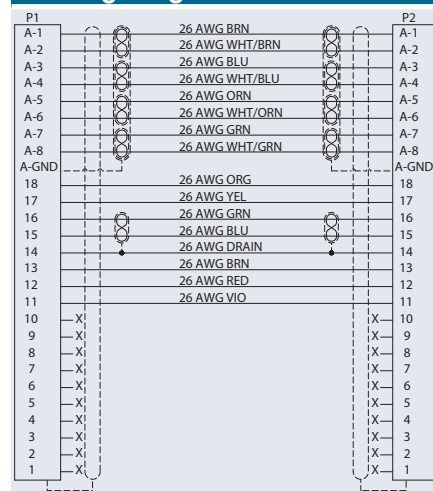
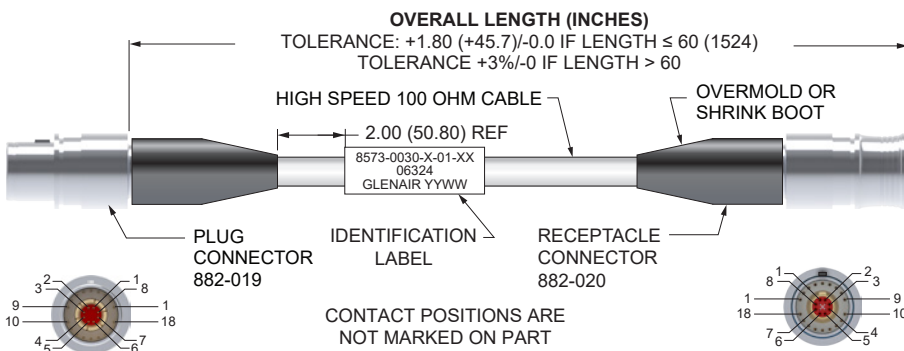


Table I: Cable Order Code

Order Code	Plug Part No.	Receptacle Part No.	Data Protocol	Cable	Cable Jacket	Overmold/Shrink Boot
01	882-019-X-01	882-020-X-01	HDMI 2.0/DP 1.4	963-120-1	Duralectric Light	Duralectric Ovrmlld
02	882-019-X-01	882-020-X-01	HDMI 2.0/DP 1.4	963-120-2	Poly-U LSZH	Polyamide Ovrmlld
03	882-019-X-01	882-020-X-01	HDMI 2.0/DP 1.4	963-120-3	FEP	Shrink Boot
04	882-019-X-02	882-020-X-02	HDMI 2.0/DP 1.4	963-127-1	Duralectric Light	Duralectric Ovrmlld
05	882-019-X-02	882-020-X-02	HDMI 2.0/DP 1.4	963-127-2	Poly-U LSZH	Polyamide Ovrmlld
06	882-019-X-02	882-020-X-02	HDMI 2.0/DP 1.4	963-127-3	FEP	Shrink Boot



8573-0031 SuperFly QDC to HDMI Cordset, Commercial Grade



HDMI 2.0, 100% tested. Save assembly time and cost with pre-wired, SuperFly Datalink "Red" assemblies for high-speed applications. These single-ended Octaxial push-pull cordsets are terminated to HDMI 2.0 cable. Series 882 Quick-Disconnect (QDC) connectors are designed for demanding aerospace environments. Commercial grade cable.

SIZE AND WEIGHT SAVING

- Integral backshell and cable seal
- Push-pull quick-disconnect

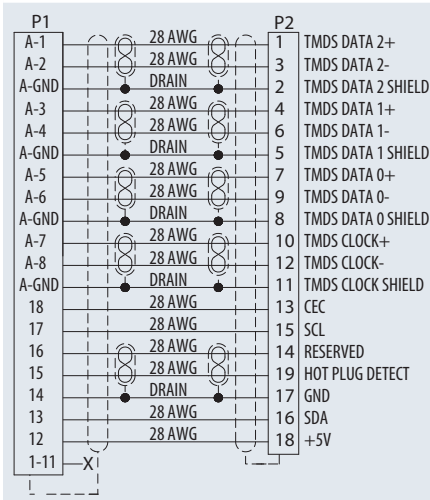
LOWER INSTALLED COST

- Factory-terminated
- 100% tested

HARSH ENVIRONMENT

- Vibration, EMI, moisture, and temperature

Wiring Diagram



Construction

- ☐ **Shell, backshell:** aluminum alloy or stainless steel
- ☐ **Insulators:** high-grade rigid dielectric
- ☐ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ☐ **Grommets:** fluorosilicone
- ☐ **O-rings:** fluorosilicone
- ☐ **Shield sleeve:** copper alloy
- ☐ **Cable:** LSZH, black

Specifications

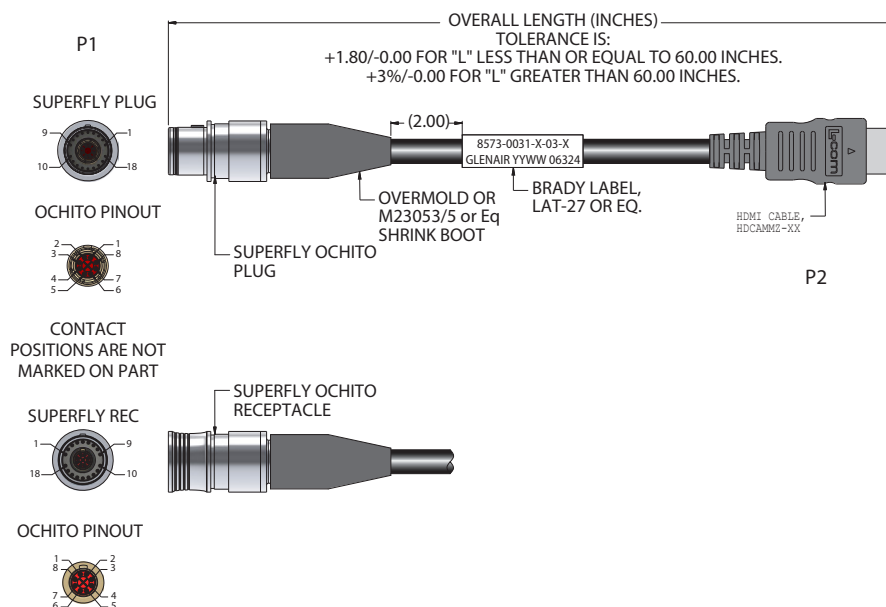
- **Operating temperature**
0 to +70°C
- **Impedance:** 100 ohms
- **DWV:** 300 Vrms
- **Current Rating:** 1.5 A
- **IR:** 10 MΩ min.
- **Durability:** 2000 mating cycles

How To Order SuperFly QDC to HDMI Cordset

Sample Part Number		8573-0031	- MT	-03	-60
Product	8573-0031 = Pre-wired QDC SuperFly to HDMI 2.0 Cordset, Commercial Grade				
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate				
Order Code	See Table I for cable order code				
Overall Length	Length in Inches (12 inch minimum)				

Table I: Cable Order Code

Order Code	Connector P/N	Plug/Receptacle	Cable
01	882-019-X-02	Plug	HDCAMMZ-X
02	882-020-X-02	Receptacle	HDCAMMZ-X





8573-0032 Superfly QDC to DisplayPort Cordset, Commercial Grade



SuperFly to DisplayPort 1.2 Cordset, 100% tested. Save assembly time and cost with pre-wired SuperFly Datalink "Red" assemblies for high-speed applications. These single-ended Octaxial push-pull cordsets are terminated to DisplayPort 1.2 cable. Series 882 Quick-Disconnect (QDC) connectors are designed for demanding aerospace environments. Commercial grade cable.

SIZE AND WEIGHT SAVING

- Integral backshell and cable seal
- Push-pull quick-disconnect

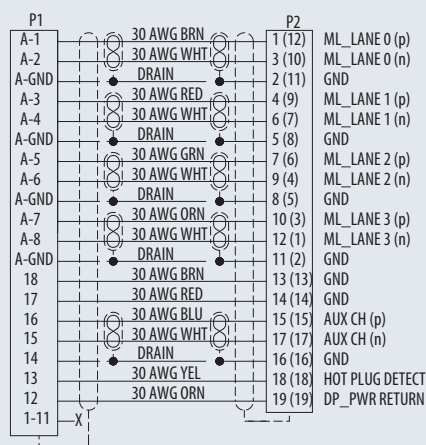
LOWER INSTALLED COST

- Factory-terminated
- 100% tested

HARSH ENVIRONMENT

- Vibration, EMI, moisture, and temperature

Wiring Diagram



Construction

- ❑ **Shell, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommets:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **Shield sleeve:** copper alloy
- ❑ **Cable:** LSZH, black

Specifications

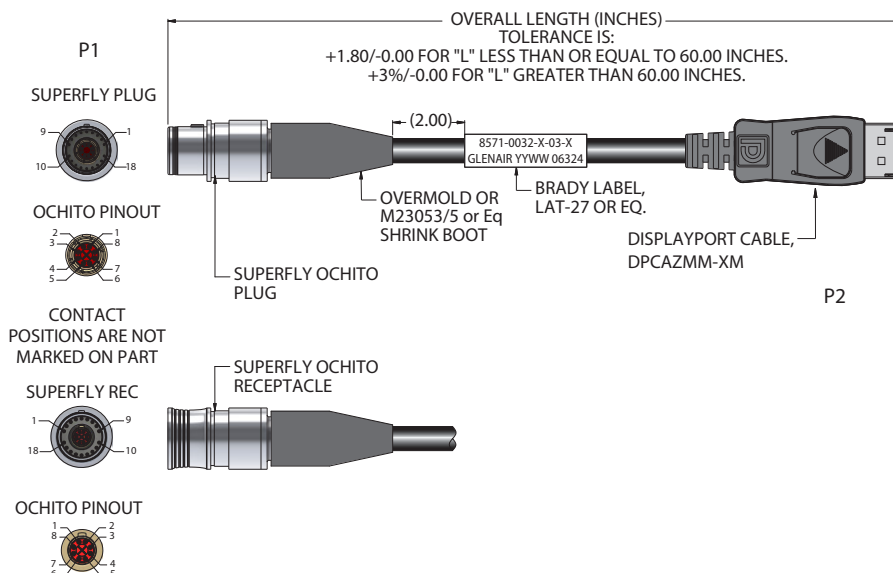
- ❑ **Operating temperature** 0 to +70°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 300 Vrms
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 10 MΩ min.
- ❑ **Durability:** 2000 mating cycles

How To Order Superfly QDC to DisplayPort Cordset

Sample Part Number	8573-0032	- MT	-03	-60
Product	8573-0032 = Pre-wired QDC SuperFly to DisplayPort 1.4 Cordset, Commercial Grade			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Order Code	See Table I for connector code			
Overall Length	Length in Inches (12 inch minimum)			

Table I: Connector Order Code

Order Code	Connector P/N	Plug/Receptacle	Cable
01	882-019-X-02	Plug	DPCA2MM-XM
02	882-020-X-02	Receptacle	DPCA2MM-XM



8573-0033 SuperFly QDC to HDMI Cordset, Aerospace Grade



Aerospace Grade SuperFly to HDMI 2.0. Cordset, 100% tested. Save assembly time and cost with pre-wired SuperFly Datalink "Red" cordsets for high-speed applications. These Octaxial push-pull cordsets are terminated to HDMI 2.0 cable. Series 882 Quik-Disconnect (QDC) connectors are designed for demanding aerospace environments.

SIZE AND WEIGHT SAVING

- Integral backshell and cable seal
- Push-pull quick-disconnect

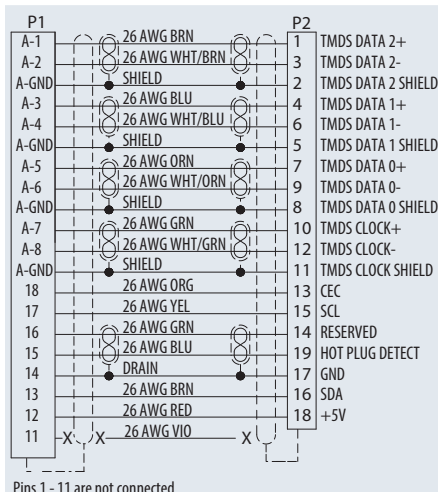
LOWER INSTALLED COST

- Factory-terminated
- 100% tested

HARSH ENVIRONMENT

- Vibration, EMI, moisture, and temperature

Wiring Diagram



Construction

- ❑ **Shell, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommets:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **Shield sleeve:** copper alloy, electroless nickel plated
- ❑ **Cable:** FEP, LSZH polyurethane, or Duralectric® Lite

Specifications

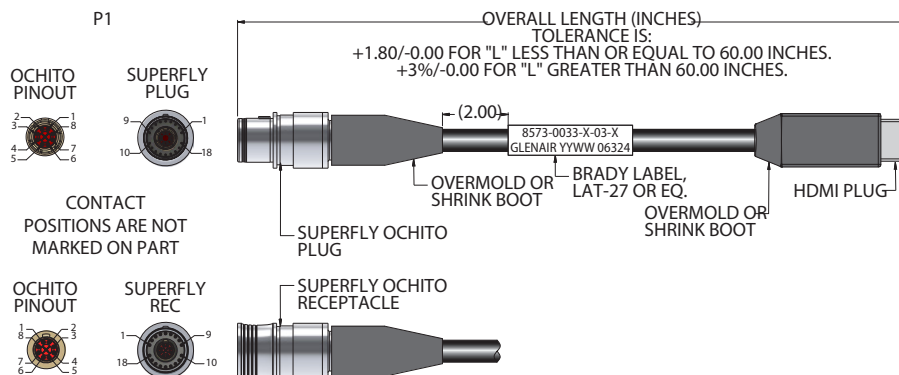
- ❑ **Cable operating temperature:** Duralectric Light: -65° to +200°C, FEP: -65°C to 200°C LSZH Polyurethane: -40°C to 90°C
- ❑ **Connector operating temperature:** SuperFly: -65°C to +175°C HDMI: 0°C to +70°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 300 Vrms
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 10 MΩ min.

How To Order SuperFly QDC to HDMI Cordset

Sample Part Number	8573-0033	- MT	-03	-60
Product	8573-0033 = Pre-wired QDC SuperFly to HDMI 2.0 Double-Ended Cordset			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Order Code	See Table I for cable order code			
Overall Length	Length in Inches (12 inch minimum)			

Table I: Cable Order Code

Order Code	Connector P/N	Plug/Receptacle	Cable	Jacket Material	Overmold/Shrink Boot
01	882-019-X-02	Plug	963-127-1	Duraelectric Light	Duraelectric Overmold
02	882-019-X-02	Plug	963-127-2	Poly-U LSZH	Polyamide Overmold
03	882-019-X-02	Plug	963-127-3	FEP	Shrink Boot
04	882-020-X-02	Receptacle	963-127-1	Duraelectric Light	Duraelectric Overmold
05	882-020-X-02	Receptacle	963-127-2	Poly-U LSZH	Polyamide Overmold
06	882-020-X-02	Receptacle	963-127-3	FEP	Shrink Boot



882-023 Cable Plug, Push-Pull QDC Coupling



SIZE AND WEIGHT SAVING

- .415 inch (10.5 mm.) diameter
- Integral strain relief and cable seal
- High density contacts

HIGH SPEED

- 10 Gbps per pair
- Low-dielectric material

HARSH ENVIRONMENT

- EMI protection
- Water ingress
- Shock and vibration
- Corrosion resistance

100 ohm. Ultraminiature. High performance. 882-023 SuperFly Datalink connectors have one El Ochito® octaxial contact, housing eight pin contacts. Compatible with aerospace or commercial grade 100 ohm cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool. 882-023 plugs feature push-pull mating and demating. Fluorosilicone O-rings for water-tight seal. Braided cable shield terminates to connector with supplied bushing for EMI protection. **Mates to 882-024, 882-027, 882-030, and 882-040 connectors.**

How To Order Cable Plug

Sample Part Number	882-023	-M	-01
Series	882-023 = Cable Plug		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01, -02 (See AI88001-02) or -03 (See AI88005-01)		

882-023 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.

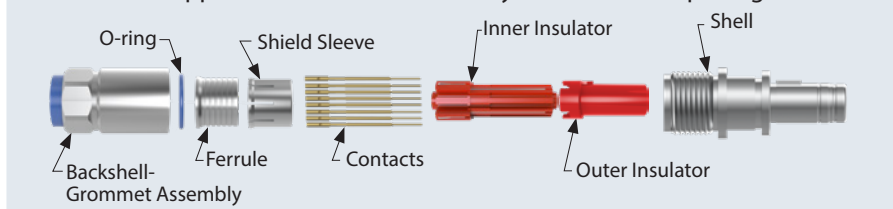
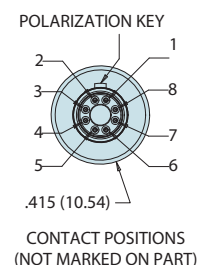
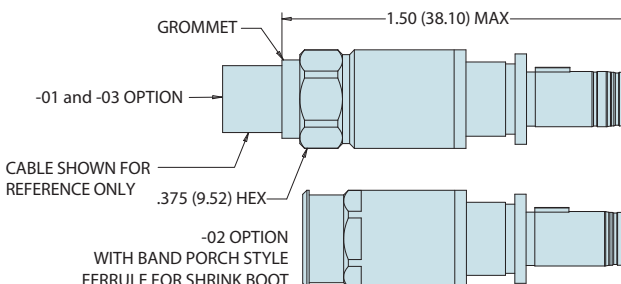


Table I: Cable Accommodated

Dash No.	Cable Part No.	Data Rate	Ref Cable O.D.
-01	963-033 -26	up to 1 Gbps	.220
-02	963-122 -X*	up to 10 Gbps	.277 or .299
-03	963-133	SATA 3	.225

*See cable specifications at end of this section for details.



Specifications

- ❑ **Operating temp.:** -65° to +175° C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 500 Vrms unmated
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 1000 MΩ min.
- ❑ **Durability:** 2000 mating cycles
- ❑ **Ingress protection:** IP67

Construction

- ❑ **Shell, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** low-dielectric material
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommet:** fluorosilicone
- ❑ **O-ring:** fluorosilicone
- ❑ **Shield sleeve, ferrule:** copper alloy, electroless nickel plated

963-122-X Dash No.

Dash 1	Duraelectric Light -65°C to +200°C, O.D. .299 (7.59)
Dash 2	LSZH Polyurethane -40°C to +90°C, O.D. .299 (.759)
Dash 3	FEP -65°C to +200°C, O.D. .277 (7.04)

Contact Crimp Tools

Hand Crimp Tool
809-015
(M22520/2-01)

Positioner for Hand Crimp Tool
859-101
(K1906)

882-024 Cable Receptacle, Push-Pull QDC Coupling



SIZE AND WEIGHT SAVING

- .415 inch (10.5 mm.) diameter
- Integral strain relief and cable seal
- High density contacts

HIGH SPEED

- 10 Gbps per pair
- Low-dielectric material

HARSH ENVIRONMENT

- EMI protection
- Water ingress
- Shock and vibration
- Corrosion resistance

Table I: Cable Accommodated

Dash No	Cable Part No.	Data Rate	Ref Cable O.D.
-01	963-033-26	up to 1 Gbps	.220
-02	963-122-X*	up to 10 Gbps	.277 or .299
-03	963-133	SATA 3	.225

*See cable specifications at end of this section for details.

Specifications

- **Operating temp.:** -65° to +175°C
- **Impedance:** 100 ohms
- **DWV:** 500 Vrms unmated
- **Current Rating:** 1.5 A
- **IR:** 1000 MΩ min.
- **Durability:** 2000 mating cycles
- **Ingress protection:** IP67

Construction

- **Shell, backshell:** aluminum alloy or stainless steel
- **Insulators:** low-dielectric material
- **Contacts:** copper alloy, 50 microinches gold over nickel plating
- **Grommet:** fluorosilicone
- **O-ring:** fluorosilicone
- **Shield sleeve, ferrule:** copper alloy, electroless nickel plated

963-122-X Dash No.

Dash 1	Duraelectric Light -65°C to +200°C, O.D. .299 (7.59)
Dash 2	LSZH Polyurethane -40°C to +90°C, O.D. .299 (.759)
Dash 3	FEP -65°C to +200°C, O.D. .277 (7.04)

Contact Crimp Tools

Hand Crimp Tool
809-015
(M22520/2-01)

Positioner for Hand
Crimp Tool
859-101
(K1906)

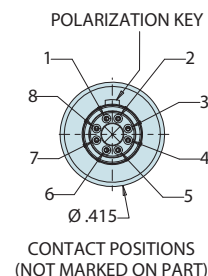
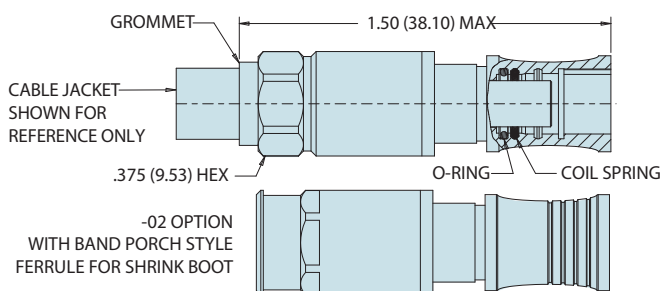
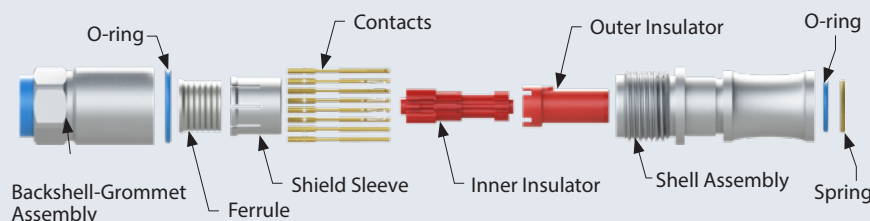
100 ohm. Ultraminiature. High performance. 882-024 SuperFly Datalink connectors have one, El Ochito® octaxial contact housing eight socket contacts. Compatible with aerospace and commercial grade 100 ohm cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool (purchased separately). M8.5 metric mating thread. EMI spring for low shell-to-shell resistance. Fluorosilicone O-ring for water-tight seal. Braided cable shield terminates to connector with supplied bushing. **Mates to 882-023, 882-031, 882-034, and 882-037 connectors.**

How To Order Cable Receptacle

Sample Part Number	882-024	-M	-01
Series	882-024 = Cable Receptacle		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01, -02 (See A188001-02) or -03 (See A188005-01)		

882-024 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.



882-037 Panel Mount Plug, Push-Pull QDC Coupling



100 ohm. Ultraminiature. High performance. 882-037 SuperFly Datalink connectors have one, El Ochito® octaxial contact housing eight pin contacts. Connectors are compatible with 100 ohm, size 28 - 24 AWG high-speed and SATA cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool (purchased separately). 882-036 plugs feature push-pull mating and demating. Fluorosilicone O-ring for water-tight seal. Braided cable shield terminates to connector with supplied bushing. **Mates to 882-024, 882-027, 882-030 and 882-040 connectors.**

SIZE AND WEIGHT SAVING

- Smallest 10 Gb per pair, 100 ohm aerospace-grade connector

FAST MATING

- Push-to-mate, pull to de-mate
- 5 pounds breakaway force

How To Order Panel Mount Plug

Sample Part Number	882-037	-M	-01
Series	882-037 = Panel Mount Plug		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01 , and -02 (See AI88001-02), -03 (See AI88005-01)		

Recommended Panel Cutout

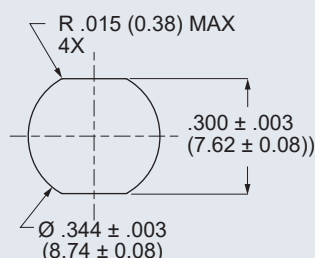


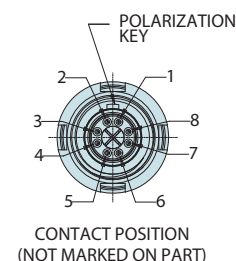
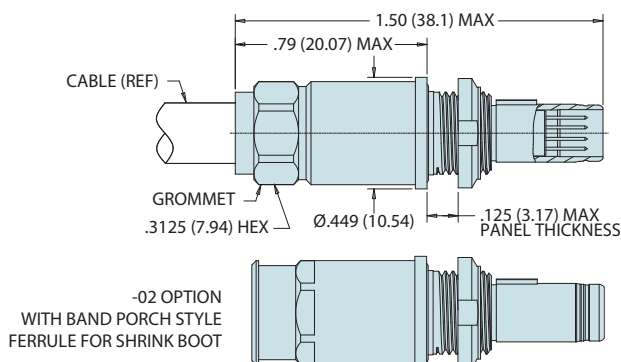
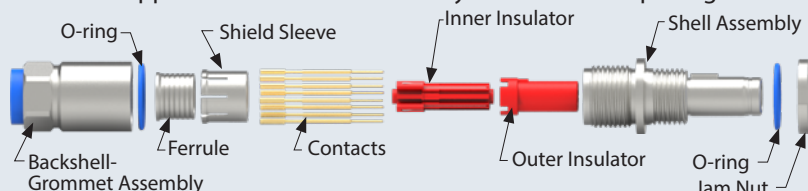
Table I: Cable Accommodated

Dash No	Cable Part No.	Data Rate	Ref Cable O.D.
-01	963-033 -26	up to 1 Gbps	.220
-02	963-122 -X*	up to 10 Gbps	.277 or .299
-03	963-133	SATA 3	.220

*See cable specifications at end of this section for details.

882-037 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.



Specifications

- Operating temp.: -65° to +175°C
- Impedance: 100 ohms
- DWV: 500 Vrms unmated
- Current Rating: 1.5 A
- IR: 1000 MΩ min.
- Durability: 2000 mating cycles
- Ingress protection: IP67

Construction

- Shell, backshell: aluminum alloy or stainless steel
- Insulators: low-dielectric material
- Contacts: copper alloy, 50 microinches gold over nickel plating
- Grommet: fluorosilicone
- O-ring: fluorosilicone
- Shield sleeve, ferrule: copper alloy, electroless nickel plated

963-122-X Dash No.

Dash 1	Duralectric Light -65°C to +200°C, O.D. .299 (7.59)
Dash 2	LSZH Polyurethane -40°C to +90°C, O.D. .299 (.759)
Dash 3	FEP -65°C to +200°C, O.D. .277 (7.04)

Contact Crimp Tools

Hand Crimp Tool
809-015
(M22520/2-01)

Positioner for Hand
Crimp Tool
859-101
(K1906)

882-040 Panel Mount Receptacle, Push-Pull QDC Coupling



100 ohm. Ultraminiature. High performance. 882-040 SuperFly Datalink connectors have one, El Ochito® octaxial contact housing eight socket contacts. Compatible with 100 Ohm, size 28 - 24 AWG high-speed and SATA cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool (purchased separately). M8.5 metric mating thread. EMI spring for low shell-to-shell resistance. Fluorosilicone O-rings for water-tight seal. Braided cable shield terminates to connector with supplied bushing. **Mates to 882-023, -031, -034, and -037 connectors.**

How To Order

Sample Part Number	882-040	-M	-01
Series	882-040 = Panel Mount Receptacle		
Shell Material and Finish	M = Aluminum / Electroless Nickel		
	MT = Aluminum / Nickel-PTFE		
	ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01, -02 (See AI88001-02) or -03 (See AI88005-01)		

Recommended Panel Cutout

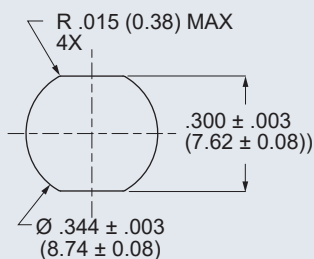


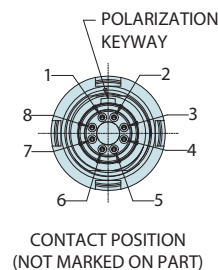
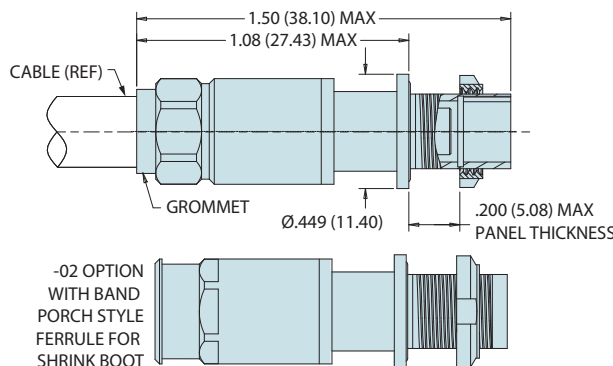
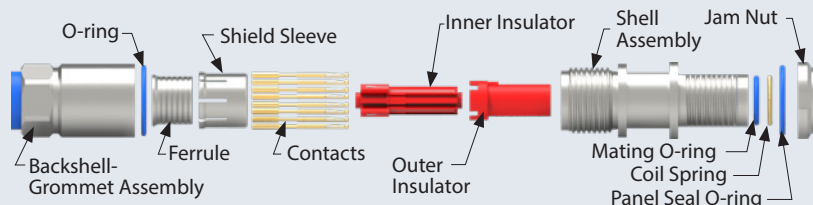
Table I: Cable Accommodated

Dash No	Cable Part No.	Data Rate	Ref Cable O.D.
-01	963-033-26	up to 1 Gbps	.220
-02	963-122-X*	up to 10 Gbps	.277 or .299
-03	963-133	SATA 3	.220

*See cable specifications at end of this section for details.

882-040 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.



Specifications

- Operating temp.: -65° to +175°C
- Impedance: 100 ohms
- DWV: 500 Vrms unmated
- Current Rating: 1.5 A
- IR: 1000 MΩ min.
- Durability: 2000 mating cycles
- Ingress protection: IP67

Construction

- Shell, backshell: aluminum alloy or stainless steel
- Insulators: low-dielectric material
- Contacts: copper alloy, 50 microinches gold over nickel plating
- Grommet: fluorosilicone
- O-ring: fluorosilicone
- Shield sleeve, ferrule: copper alloy, electroless nickel plated

963-122-X Dash No.

Dash 1	Duralectric Light -65°C to +200°C, O.D. .299 (7.59)
Dash 2	LSZH Polyurethane -40°C to +90°C, O.D. .299 (7.59)
Dash 3	FEP -65°C to +200°C, O.D. .277 (7.04)

Contact Crimp Tools

Hand Crimp Tool
809-015
(M22520/2-01)

Positioner for Hand
Crimp Tool
859-101
(K1906)

882-031 PC Tail Panel Mount Plug, Push-Pull Coupling



100 ohm. Ultraminiature. Rear panel mount. PCB terminals.

882-031 SuperFly Datalink plugs have one El Ochito® octaxial contact housing eight pin contacts. Attach to .100 (2.54) maximum thickness panel with spanner nut. PC tail contacts are gold plated or solder dipped in 63/37 tin-lead. Contacts are epoxy-sealed and are non-removable. Gold-plated EMI spring for low shell-to-shell resistance. Fluorosilicone O-rings for water-tight seal. *Mates to 882-024, -027, -030, and -040 receptacles.*

SIZE AND WEIGHT SAVING

- .455 inch (mm.) diameter

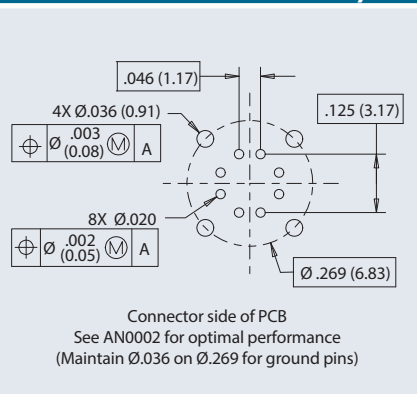
HIGH SPEED

- 10 Gbps per pair
- Low-dielectric insulators

HARSH ENVIRONMENT

- EMI protection
- Water ingress
- Shock and vibration

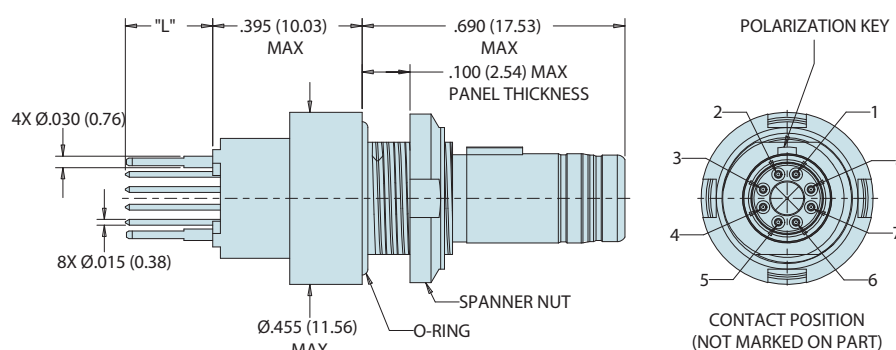
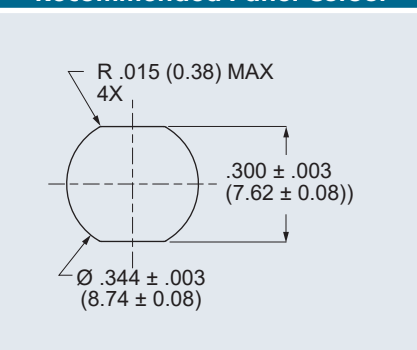
Recommended PC Board Layout



How To Order

Sample Part Number	882-031	-ZR	S	-.080
Product	882-031 = Panel Mount PC Tail Plug			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
PC Tail Finish	S = Solder dip, 63/37 tin-lead G = Gold			
PC Tail Length	.080 = .080" (2.03 mm.) .125 = .125" (3.18 mm.) .175 = .175" (4.45 mm.) .200 = .200" (5.08 mm.)			

Recommended Panel Cutout



Specifications

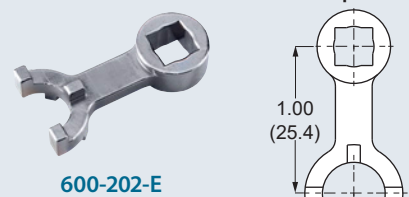
- ❑ Operating temp.: -65° to +175°C
- ❑ Impedance: 100 ohms
- ❑ DWV: 500 Vrms unmated
- ❑ Current Rating: 1.5 A
- ❑ IR: 1000 MΩ min.
- ❑ Durability: 2000 mating cycles
- ❑ Ingress protection: IP67

Construction

- ❑ Shell, jam-nut: aluminum alloy or SST
- ❑ Insulators: low-dielectric material
- ❑ Contacts: copper alloy, 50 microinches gold over nickel plating
- ❑ O-ring: fluorosilicone
- ❑ Potting: epoxy

Spanner Nut Tightening Tool

Nickel-plated tool steel, 1/4" sq. drive
13 - 18 in.-lbs. recommended torque



882-027 PC Tail, Panel Mount Receptacle, Push-Pull QDC Coupling



100 ohm. Ultraminiature. Rear panel mount. PCB terminals.

882-027 SuperFly Datalink receptacles have one El Ochito® octaxial contact. Attach to .100" (2.54 mm) maximum thickness panel with spanner nut. PC tail contacts are gold plated or solder dipped in 63/37 tin-lead. Contacts are epoxy-sealed and are non-removable. Gold-plated EMI spring for low shell-to-shell resistance. Fluorosilicone O-rings for water-tight seal. *Mates to 882-023, -031, -034, and -037 plug connectors.*

SIZE AND WEIGHT SAVING

- .455 inch (10.5 mm.) diameter

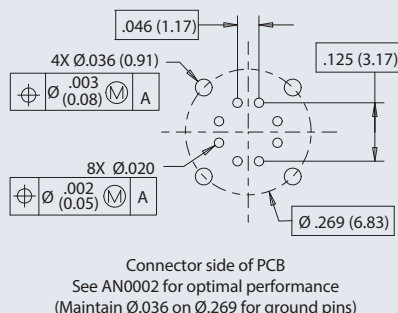
HIGH-SPEED

- 10 Gbps per pair
- Low-dielectric insulators

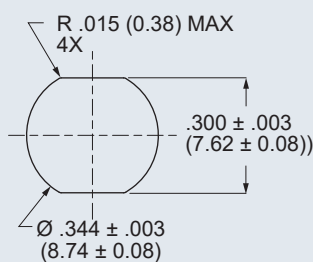
HARSH ENVIRONMENT

- EMI protection
- Water ingress
- Shock and vibration

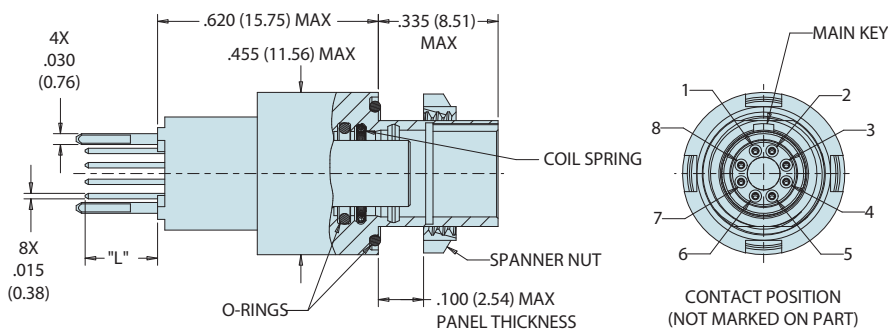
Recommended PC Board Layout



Recommended Panel Cutout



How To Order				
Sample Part Number	882-027	- ZR	S	-.080
Product	882-027 = Panel Mount PC Tail Receptacle			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
PC Tail Finish	S = Solder dip, 63/37 tin-lead G = Gold			
PC Tail Length	.080 = .080" (2.03 mm.) .125 = .125" (3.18 mm.) .175 = .175" (4.45 mm.) .200 = .200" (5.08 mm.)			



Specifications

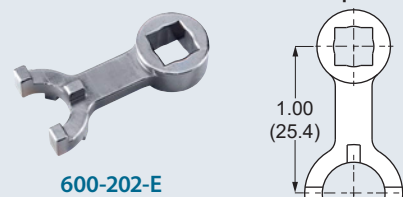
- Operating temp.: -65° to +175°C
- Impedance: 100 ohms
- DWV: 500 Vrms unmated
- Current Rating: 1.5 A
- IR: 1000 MΩ min.
- Durability: 2000 mating cycles
- Ingress protection: IP67

Construction

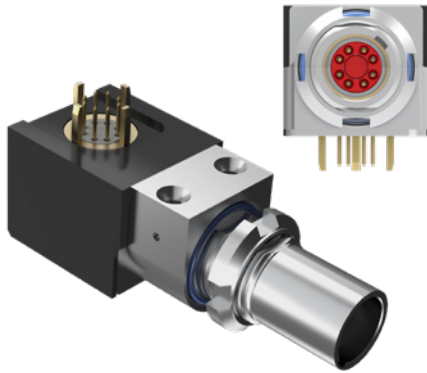
- Shell, jam-nut: aluminum alloy or SST
- Insulators: low-dielectric material
- Contacts: copper alloy, 50 microinches gold over nickel plating
- O-rings: fluorosilicone
- EMI spring: stainless steel, gold plated
- Potting: epoxy

Spanner Nut Tightening Tool

Nickel-plated tool steel, 1/4" sq. drive
13 - 18 in.-lbs. recommended torque



882-030 90° PC Tail, Panel Mount Receptacle, Push-Pull QDC Coupling



100 ohm. Ultraminiature. Rear panel mount. PCB terminals.

882-030 SuperFly Datalink PCB receptacles have one El Ochito® octaxial contact housing 8 socket contacts. Attach to .100 (2.54) max thickness panel with spanner nut. PC tail contacts are gold plated or solder dipped in 63/37 tin-lead. Contacts are epoxy-sealed and non-removable. EMI spring for low shell-to-shell resistance. Water-tight O-ring seal. ***Mates to 882-023, -031, -034 and -037.***

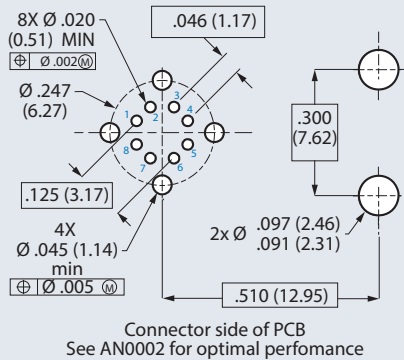
HIGH-SPEED

- 5 Gbps per pair
- Low-dielectric insulators

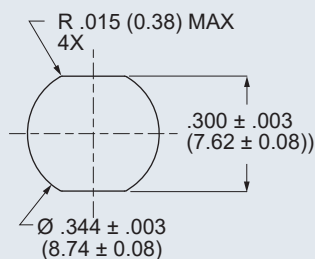
HARSH ENVIRONMENT

- EMI protection
- Water ingress
- Shock and vibration
- Temperature extremes
- Corrosion resistance

PC Board Layout

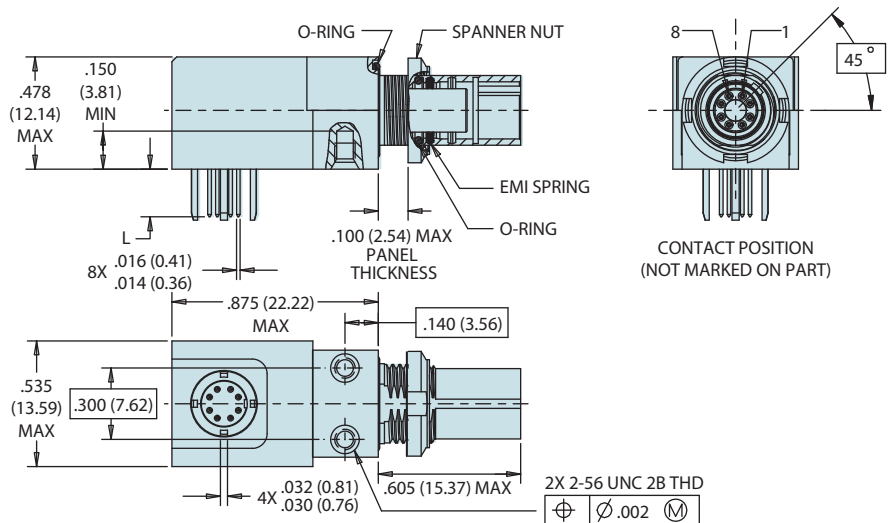


Panel Cutout



How To Order Push-Pull Receptacles

Sample Part Number	882-030	-M	G	-.125
Product	882-030 = Right Angle, Panel Mount PC Tail Receptacle			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
PC Tail Finish	S = Solder dip, 63/37 tin-lead G = Gold			
PC Tail Length	.200 = .200 in. (5.08 mm.)			



Specifications

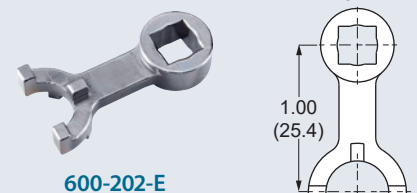
- ❑ **Operating temp.:** -65° to +175°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 100 Vrms unmated
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 100 MΩ @ 150 Vdc
- ❑ **Durability:** 2000 mating cycles
- ❑ **Ingress protection:** IP67

Construction

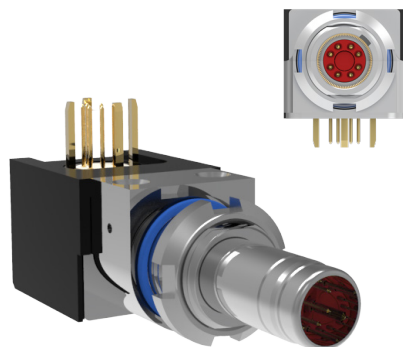
- ❑ **Shell, jam-nut:** aluminum alloy or SST
- ❑ **Insulators:** low-dielectric material
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **O-rings:** fluorosilicone blend
- ❑ **Potting:** epoxy

Spanner Nut Tightening Tool

Nickel-plated tool steel, 1/4" sq. drive
13 - 18 in.-lbs. recommended torque



882-034 90° PC Tail, Panel Mount Receptacle, Push-Pull QDC Coupling



100 ohm. Ultraminiature. Rear panel mount. PCB terminals.

882-034 SuperFly Datalink plugs have one El Ochito® octaxial contact, housing 8 socket contacts. Attach to .100 (2.54) maximum thickness panel with spanner nut. PC tail contacts are gold plated or solder dipped in 63/37 tin-lead. Contacts are epoxy-sealed and are non-removable. Gold-plated EMI spring for low shell-to-shell resistance. Fluorosilicone O-rings for water-tight seal. **Mates to 882-024, -027, -030, and -040.**

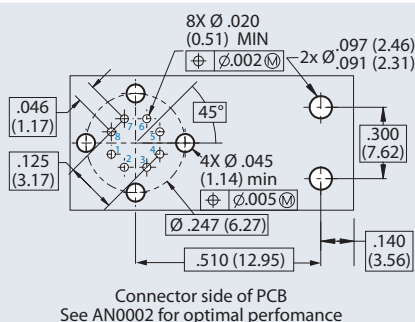
HIGH-SPEED

- 5 Gbps per pair
- Low-dielectric insulators

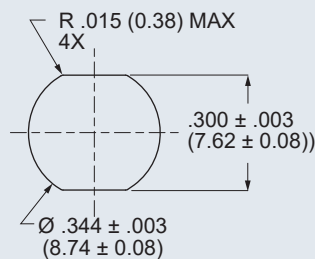
HARSH ENVIRONMENT

- EMI protection
- Water ingress
- Shock and vibration
- Temperature extremes
- Corrosion resistance

PC Board Layout

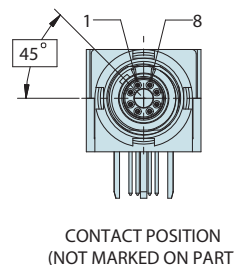
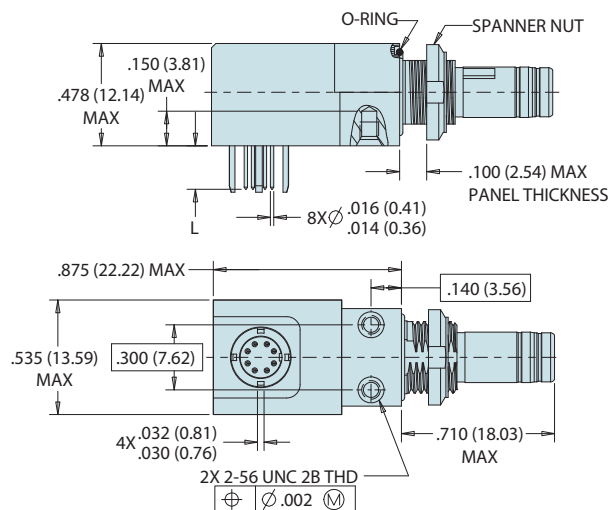


Panel Cutout



How To Order PC Tail, Panel Mount Receptacle

Sample Part Number	882-034	- MT	G	-.200
Product	882-034 = Right Angle, Panel Mount PC Tail Receptacle			
Shell Finish	M = Aluminum / Electroless Nickel (48 hr salt spray) MT = Aluminum / Nickel-PTFE (500 hr salt spray) ZK = Stainless Steel / Passivate			
PC Tail Option	G = Gold Plated S = Solder Dipped in 63/37 Tin-Lead			
Overall Length	PC Tail Length in Inches: .200			



Specifications

- Operating temp.:** -65° to +175°C
- Impedance:** 100 ohms
- DWV:** 100 Vrms unmated
- Current Rating:** 1.5 A
- IR:** 100 MΩ @ 150 Vdc
- Durability:** 2000 mating cycles
- Ingress protection:** IP67

Construction

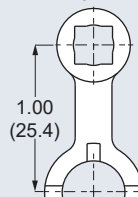
- Shell, jam-nut:** aluminum alloy or SST
- Insulators:** low-dielectric material
- Contacts:** copper alloy, 50 microinches gold over nickel plating
- O-ring:** fluorosilicone blend
- Potting:** epoxy

Spanner Nut Tightening Tool

Nickel-plated tool steel, 1/4" sq. drive
13 - 18 in.-lbs. recommended torque



600-202-E



8573-0025 Pre-Wired, QDC Cordset, Single-Ended, 100 ohm



Multi-Gig, 100 ohm, Save assembly time and cost with pre-wired SuperFly Datalink "Red" assemblies for high-speed applications. These single-ended Octaxial push-pull cordsets are terminated to 100 ohm cable. Series 882 QDC connectors are designed for demanding aerospace environments.

SIZE AND WEIGHT SAVING

- Integral backshell and cable seal
- Push-pull quick-disconnect

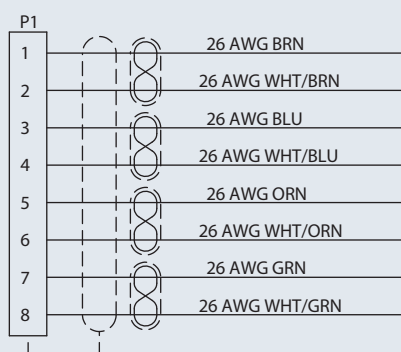
LOWER INSTALLED COST

- Factory-terminated SuperFly connector

HARSH ENVIRONMENT

- Vibration, EMI, moisture, and temperature

Wiring Diagram



Construction

- ❑ **Shell, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommets:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **Shield sleeve, ferrule:** copper alloy, electroless nickel plated
- ❑ **Cable:** aerospace-grade fluoropolymer, FEP, LSZH polyurethane, or Duralectric® Lite

Specifications

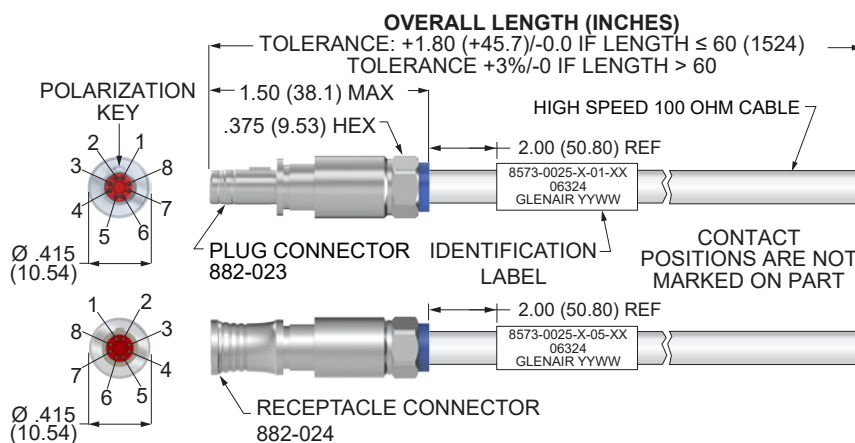
- ❑ **Operating temperature**
Connector: -65° C to +175° C
EF100, Duraelectric Light: -65° to +200° C, FEP: -65° C to 200° C
LSZH Polyurethane: -40° C to 90° C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 500 Vrms
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 200 MΩ min.

How To Order Pre-Wired, QDC Cordset, Single-Ended

Sample Part Number	8573-0025	- MT	-03	-60
Product	8573-0025 = Pre-wired Single-Ended Cordset			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Order Code	See Table I for cable order code			
Overall Length	Length in Inches (12 inch minimum)			

Table I: Cable Order Code

Order Code	Connector P/N	Plug/Receptacle	Data Rate (per pair)	Cable	Jacket Material
01	882-023-X-01	Plug	Up to 1 Gbps	963-033-26	EF100
02	882-023-X-02	Plug	Up to 10 Gbps	963-122-1	Duraelectric Light
03	882-023-X-02	Plug	Up to 10 Gbps	963-122-2	LSZH Polyurethane
04	882-023-X-02	Plug	Up to 10 Gbps	963-122-3	FEP
05	882-024-X-01	Receptacle	Up to 1 Gbps	963-033-26	EF100
06	882-024-X-02	Receptacle	Up to 10 Gbps	963-122-1	Duraelectric Light
07	882-024-X-02	Receptacle	Up to 10 Gbps	963-122-2	LSZH Polyurethane
08	882-024-X-02	Receptacle	Up to 10 Gbps	963-122-3	FEP



8573-0026 Pre-Wired QDC Cordset, Plug-to-Receptacle, 100 ohm



Lower installed cost. 100% tested. Save assembly time and cost with pre-wired SuperFly Datalink "Red" assemblies for high-speed, multi-gig applications. These back-to-back push-pull cordsets are terminated to 100 ohm cable. Series 882 QDC Octaxial connectors are designed for demanding aerospace environments subject to high vibration, temperature extremes and moisture.

SIZE AND WEIGHT SAVING

- <1/2 inch (12.7 mm.) diameter
- Push-pull quick-disconnect

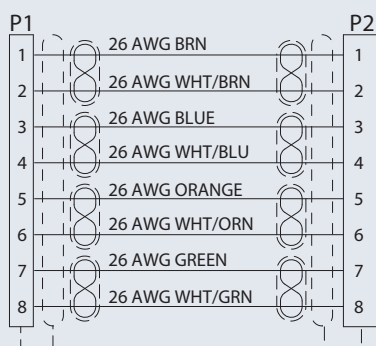
LOWER INSTALLED COST

- Factory-terminated
- 100% tested

HARSH ENVIRONMENT

- Vibration, EMI, moisture, and temperature

Wiring Diagram



Construction

- **Shell, backshell:** aluminum alloy or stainless steel
- **Insulators:** high-grade rigid dielectric
- **Contacts:** copper alloy, 50 microinches gold over nickel plating
- **Grommets:** fluorosilicone
- **O-rings:** fluorosilicone
- **Shield sleeve, ferrule:** copper alloy, electroless nickel plated
- **Cable:** aerospace-grade fluoropolymer, FEP, polyurethane, or Duraelectric® Lite

Specifications

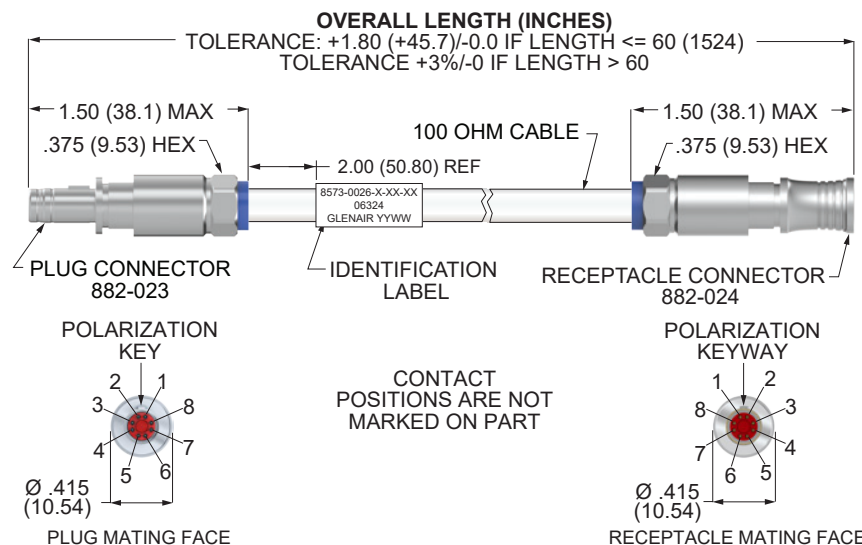
- **Operating temperature**
Connector: -65°C to +175°C
EF100, Duraelectric Light: -65° to +200°C,
FEP: -65°C to +200°C
LSZH Polyurethane: -40°C to +90°C
- **Impedance:** 100 ohms
- **DWV:** 500 Vrms
- **Current Rating:** 1.5 A
- **IR:** 200 MΩ min.

How To Order Pre-Wired Cordset Plug-to-Receptacle

Sample Part Number	8573-0026	- M	-01	-36
Product	8573-0026 = Pre-wired plug to receptacle cordset			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Cable Type	See Table I for cable order code			
Overall Length	Length in Inches (12 inch minimum)			

Table I: Cable Order Code

Order Code	Plug P/N	Receptacle P/N	Data Protocol per pair	Cable	Jacket Material
01	882-023-X-01	882-024-X-01	Up to 1 Gbps	963-033-26	EF100
02	882-023-X-02	882-024-X-02	Up to 10 Gbps	963-122-1	Duraelectric Light
03	882-023-X-02	882-024-X-02	Up to 10 Gbps	963-122-2	LSZH Polyurethane
04	882-023-X-02	882-024-X-02	Up to 10 Gbps	963-122-3	FEP





8573-0038 Pre-Wired QDC Assembly, Single-Ended, SATA 3.0



SATA 3.0 Single ended. Save assembly time and cost with pre-wired SuperFly Datalink "Red" assemblies for high-speed applications. These single-ended Octaxial push-pull cordsets are terminated to twin-ax parallel pair, 100 ohm cable. Series 882 QDC connectors are designed for demanding aerospace environments subject to high vibration, temperature extremes and moisture.

SIZE AND WEIGHT SAVING

- Integral backshell and cable seal
- Push-pull quick-disconnect

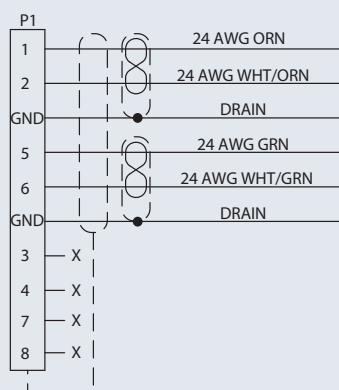
LOWER INSTALLED COST

- Factory-terminated SuperFly connector

HARSH ENVIRONMENT

- Vibration, EMI, moisture, and temperature

Wiring Diagram



How To Order Pre-Wired Cordset Single-Ended

Sample Part Number	8573-0038	- MT	-03	-60
Product	8573-0038 = Pre-wired SuperFly Datalink, Single-Ended Cordset			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Order Code	See Table I for cable order code			
Overall Length	Length in Inches (12 inch minimum)			

Table I: Cable Order Code

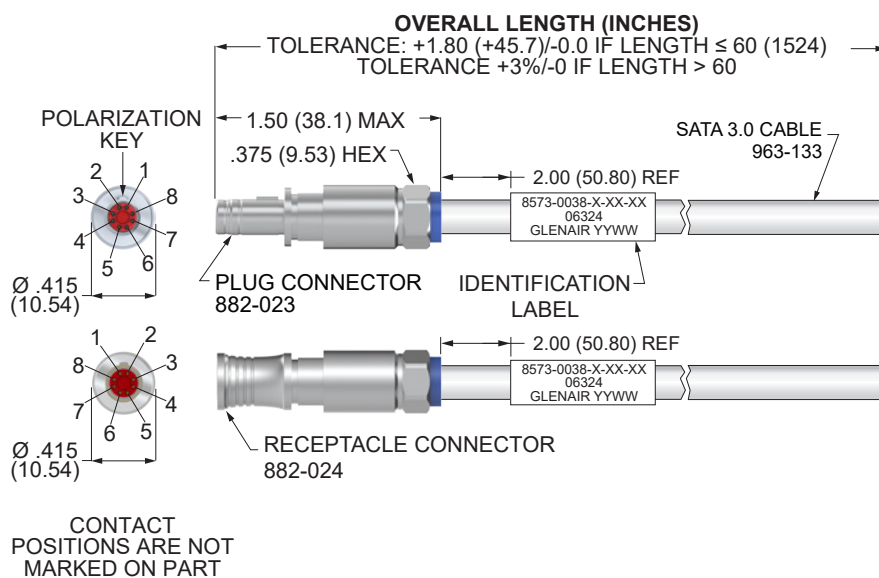
Order Code	Connector P/N	Plug/Receptacle	Cable
01	882-023-X-03	Plug	963-133
02	882-024-X-03	Receptacle	963-133

Construction

- ❑ **Shell, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommets:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **Shield sleeve, ferrule:** copper alloy, electroless nickel plated

Specifications

- ❑ **Operating temperature**
Connector: -65°C to +175°C
Cable: -55°C to +200°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 300 Vrms
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 100 MΩ min.



CONTACT
POSITIONS ARE NOT
MARKED ON PART

8573-0039 Pre-Wired QDC Assembly, Plug-to-Receptacle, SATA 3.0



Lower installed cost. 100% tested. Save assembly time and cost with pre-wired SuperFly Datalink "Red" assemblies for high-speed, multi-gig applications. These back-to-back push-pull cordsets are terminated to 100 ohm cable. Series 882 QDC Octaxial connectors are designed for demanding aerospace environments subject to high vibration, temperature extremes and moisture.

SIZE AND WEIGHT SAVING

- <1/2 inch (12.7 mm.) diameter
- Push-pull quick-disconnect

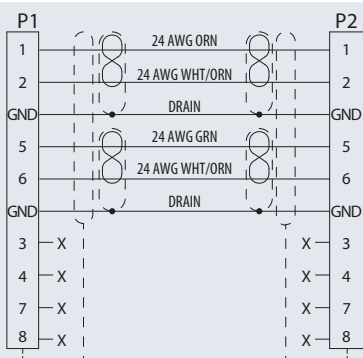
LOWER INSTALLED COST

- Factory-terminated
- 100% tested

HARSH ENVIRONMENT

- Vibration, EMI, moisture, and temperature

Wiring Diagram



How To Order Pre-Wired Cordset, Plug-to-Receptacle

Sample Part Number	8573-0039	- M	-01	-36
Product	8573-0039 = Pre-wired Plug to Receptacle Cordset			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Cable Type	See Table I for cable order code			
Overall Length	Length in Inches (12 inch minimum)			

Table I: Cable Order Code

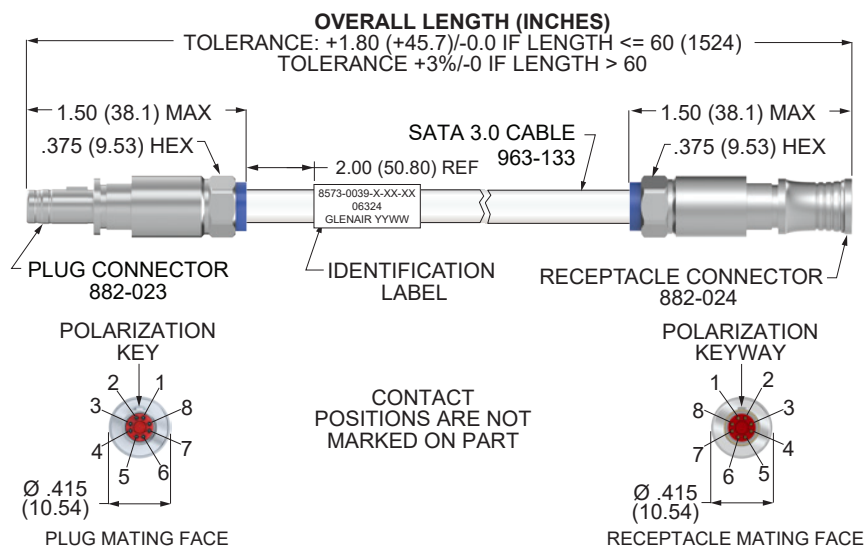
Order Code	Plug P/N	Receptacle P/N	Cable
01	882-023-X-03	882-024-X-03	963-133

Construction

- ❑ **Shell, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommets:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **Shield sleeve and ferrull:** copper alloy, electroless nickel plated

Specifications

- ❑ **Operating temperature**
Connector: -65°C to +175°C
Cable: -55°C to +200°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 100 Vrms
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 100 MΩ min.



882-025 Cable Plug, Threaded Coupling



SIZE AND WEIGHT SAVING

- Smallest high-speed aerospace-grade connector
- Integral strain relief and cable seal
- High density contacts

HIGH SPEED

- 10 Gbps per pair
- Low-dielectric material

HARSH ENVIRONMENT

- EMI protection
- Water ingress
- Shock and vibration
- Temperature extremes

Table I: Cable Accommodated

Dash No	Cable Part No.	Data Rate	Ref Cable O.D.
-01	963-033 -26	up to 1 Gbps	.220
-02	963-122 -X*	up to 10 Gbps	.277 or .299
-03	963-133	SATA 3	.225

*See cable specifications at end of this section for details.

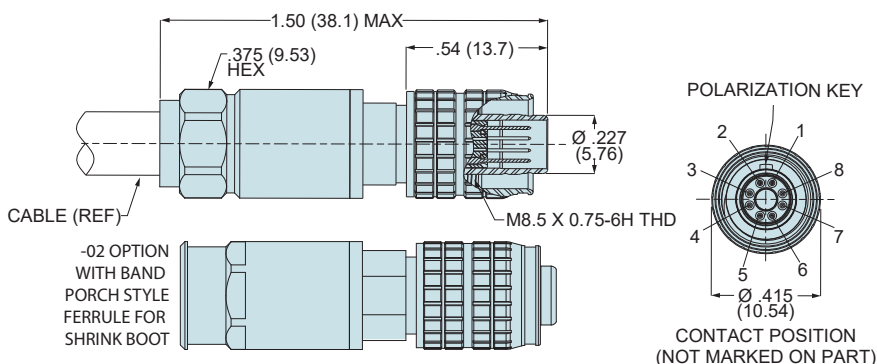
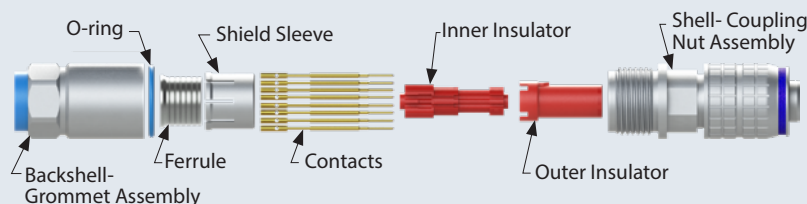
100 ohm. Ultraminiature. High performance. 882-025 SuperFly Datalink Octaxial connectors have one El Ochito® octaxial contact, housing eight Pin contacts. Compatible with #24 to #28 AWG 100 ohm high-speed cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool. 882-025 plugs have a rotating coupling nut with M8.5 metric thread. Fluorosilicone O-rings for water-tight seal. Braided cable shield terminates to connector with supplied bushing. **Mates to 882-026, 882-028, 882-029, and 882-043 receptacles.**

How To Order Cable Plug

Sample Part Number	882-025	-M	-01
Series	882-025 = Cable Plug		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01, -02 (See AI88001-02) or -03 (See AI88005-01)		

882-025 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.



Specifications

- ❑ **Operating temp.:** -65° to +175°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 500 Vrms unmatd
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 1000 MΩ min.
- ❑ **Durability:** 2000 mating cycles
- ❑ **Ingress protection:** IP67

Construction

- ❑ **Shell, coupling nut, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** low-dielectric material
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommet:** fluorosilicone
- ❑ **O-ring:** fluorosilicone
- ❑ **Inner Shield sleeve, ferrule:** copper alloy, electroless nickel plated

963-122-X Dash No.

Dash 1	Duralectric Light -65°C to +200°C, O.D. .299 (7.59)
Dash 2	LSZH Polyurethane -40°C to +90°C, O.D. .299 (.759)
Dash 3	FEP -65°C to +200°C, O.D. .277 (7.04)

Contact Crimp Tools

Hand Crimp Tool
809-015
(M22520/2-01)

Positioner for Hand Crimp Tool
859-101
(K1906)

882-026 Cable Receptacle, Threaded Coupling



SIZE AND WEIGHT SAVING

- Smallest high-speed aerospace-grade connector
- Integral strain relief and cable seal
- High density contacts

HIGH SPEED

- 10 Gbps per pair
- Low-dielectric material

HARSH ENVIRONMENT

- EMI protection
- Water ingress

Table I: Cable Accommodated

Dash No	Cable Part No.	Data Rate	Ref Cable O.D.
-01	963-033 -26	up to 1 Gbps	.220
-02	963-122 -X*	up to 10 Gbps	.277 or .299
-03	963-133	SATA 3	.225

*See cable specifications at end of this section for details.

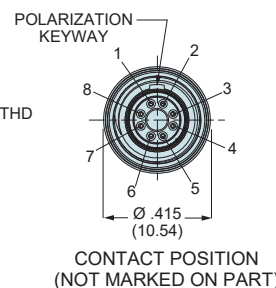
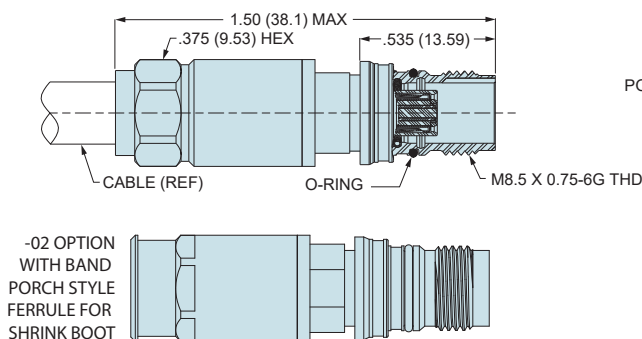
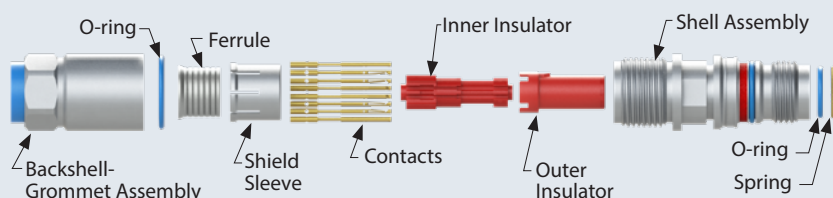
100 ohm. Ultraminiature. High performance. 882-026 SuperFly Datalink Octaxial connectors have one El Ochito® octaxial contact, housing eight socket contacts. Compatible with #24 to #28 AWG, 100 ohm high-speed cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool. M8.5 metric mating thread. Internal O-ring seals to mating plug. Gold-plated EMI spring for low shell-to-shell resistance. Fluorosilicone O-rings for water-tight seal. Braided cable shield terminates to connector with supplied bushing. **Mates with 882-025 plug only.**

How To Order Cable Receptacle

Sample Part Number	882-026	-M	-01
Series	882-026 = Cable Receptacle		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01, -02 (See AI88001-02) or -03 (See AI88005-01)		

882-026 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.



Specifications

- ❑ Operating temp.: -65° to +175°C
- ❑ Impedance: 100 ohms
- ❑ DWV: 500 Vrms unmated
- ❑ Current Rating: 1.5 A
- ❑ IR: 1000 MΩ min.
- ❑ Durability: 2000 mating cycles
- ❑ Ingress protection: IP67

Construction

- ❑ Shell, backshell: aluminum alloy or stainless steel
- ❑ Insulators: low-dielectric material
- ❑ Contacts: copper alloy, 50 microinches gold over nickel plating
- ❑ Grommet: fluorosilicone
- ❑ O-rings: fluorosilicone
- ❑ EMI spring: stainless steel, gold plated
- ❑ Shield sleeve, ferrule: copper alloy, electroless nickel plated

963-122-X Dash No.

Dash 1	Duraelectric Light -65°C to +200°C, O.D. .299 (7.59)
Dash 2	LSZH Polyurethane -40°C to +90°C, O.D. .299 (.759)
Dash 3	FEP -65°C to +200°C, O.D. .277 (7.04)

Contact Crimp Tools

Hand Crimp Tool
809-015
(M22520/2-01)

Positioner for Hand
Crimp Tool
859-101
(K1906)

882-043 Panel Mount Receptacle, Threaded Coupling



100 ohm. Ultraminiature. High performance. 882-043 SuperFly Datalink connectors have one El Ochito® octaxial contact, housing eight socket contacts. Compatible with #24-28 AWG, 100 ohm high-speed cable. Supplied as unassembled kit. Terminate wires to contacts with crimp tool. M8.5 metric mating thread. Gold-plated EMI spring for low shell-to-shell resistance. Fluorosilicone O-rings for water-tight seal. Braided cable shield terminates to connector with supplied bushing. **Mates with 882-025 plug only.**

How To Order Panel Mount Receptacle

Sample Part Number	882-043	-M	-01
Series	882-043 = Panel Mount Receptacle		
Shell Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate		
Cable Dash No. (See Table I)	-01, -02 (See AI88001-02) or -03 (See AI88005-01)		

Recommended Panel Cutout

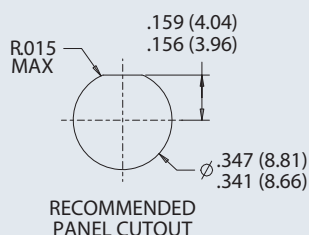


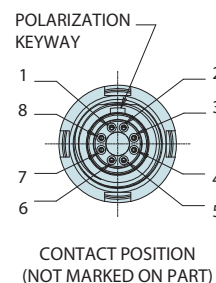
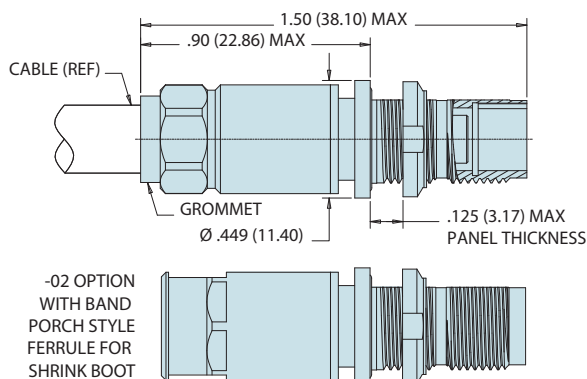
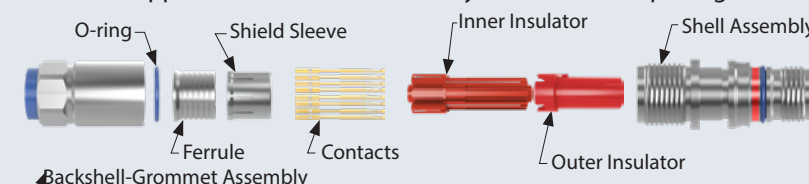
Table I: Cable Accommodated

Dash No	Cable Part No.	Data Rate	Ref Cable O.D.
-01	963-033 -26	up to 1 Gbps	.220
-02	963-122 -X*	up to 10 Gbps	.277 or .299
-03	963-133	SATA 3	.225

*See cable specifications at end of this section for details.

882-043 Components

Connector is supplied unassembled. Assembly instructions are packaged with kit.



Specifications

- Operating temp.: -65° to +175°C
- Impedance: 100 ohms
- DWV: 500 Vrms unmated
- Current Rating: 1.5 A
- IR: 1000 MΩ min.
- Durability: 2000 mating cycles
- Ingress protection: IP67

Construction

- Shell, backshell: aluminum alloy or stainless steel
- Insulators: low-dielectric material
- Contacts: copper alloy, 50 microinches gold over nickel plating
- Grommet: fluorosilicone
- O-rings: fluorosilicone
- EMI spring: stainless steel, gold plated
- Shield sleeve, ferrule: copper alloy, electroless nickel plated

963-122 Cbl Dash No.

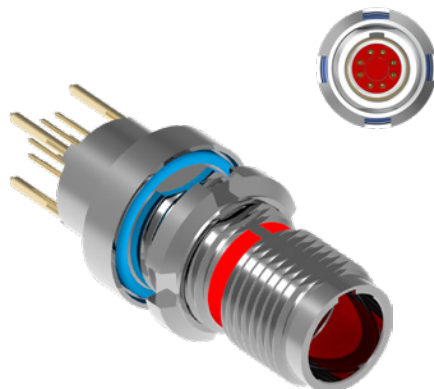
Dash	1
Duralectric Light	-65°C to +200°C, O.D. .299 (7.59)
Dash	2
LSZH Polyurethane	-40°C to +90°C, O.D. .299 (.759)
Dash	3
FEP	-65°C to +200°C, O.D. .277 (7.04)

Contact Crimp Tools

Hand Crimp Tool
809-015
(M22520/2-01)

Positioner for Hand Crimp Tool
859-101
(K1906)

882-028 PC Tail, Panel Mount Receptacle, Threaded Coupling



100 ohm. Ultraminiature. High performance. PCB terminals.

882-028 SuperFly Datalink receptacles have one El Ochito® octaxial contact, housing eight socket contacts. Attach to .100 (2.54) maximum thickness panel with spanner nut. PC tail contacts are gold plated or solder dipped in 63/37 tin-lead. Contacts are epoxy-sealed and are non-removable. Gold-plated EMI spring for low shell-to-shell resistance. Fluorosilicone O-rings for water-tight seal. **Mates to 882-025.**

SIZE AND WEIGHT SAVING

- .455 (11.56) diameter

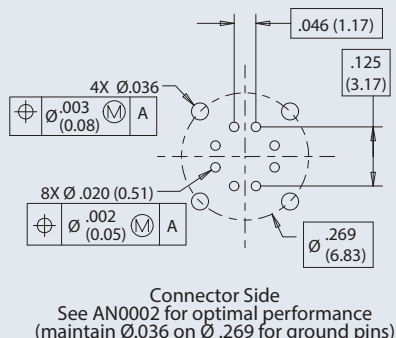
HIGH SPEED

- 10 Gbps per pair
- Low-dielectric insulators

HARSH ENVIRONMENT

- EMI protection
- Water ingress
- Shock and vibration

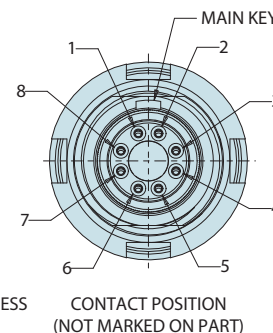
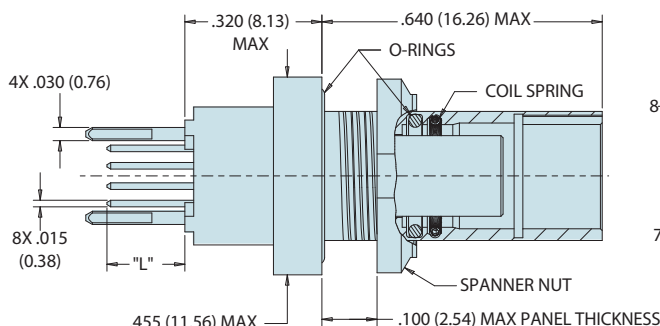
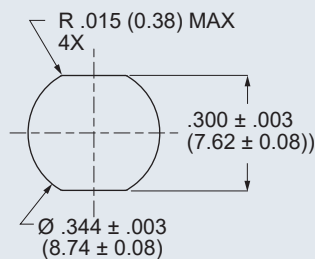
Recommended PC Board Layout



How To Order PC Tail, Panel Mount Receptacle

Sample Part Number	882-028	- Z2	S	-.080
Product	882-028 = Panel Mount PC Tail Receptacle			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
PC Tail Finish	S = Solder dip, 63/37 tin-lead G = Gold			
PC Tail Length	.080 = .080" (2.03 mm.) .125 = .125" (3.18 mm.) .175 = .175" (4.45 mm.) .200 = .200" (5.08 mm.)			

Recommended Panel Cutout



Specifications

- Operating temp.: -65° to +175°C
- Impedance: 100 ohms
- DWV: 500 Vrms unmated
- Current Rating: 1.5 A
- IR: 1000 MΩ min.
- Durability: 2000 mating cycles
- Ingress protection: IP67

Construction

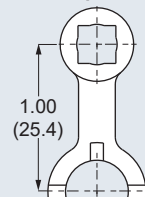
- Shell, jam-nut: aluminum alloy or SST
- Insulators: state low-dielectric material
- Contacts: copper alloy, 50 microinches gold over nickel plating
- O-rings: fluorosilicone
- EMI spring: stainless steel, gold plated
- Potting: epoxy

Spanner Nut Tightening Tool

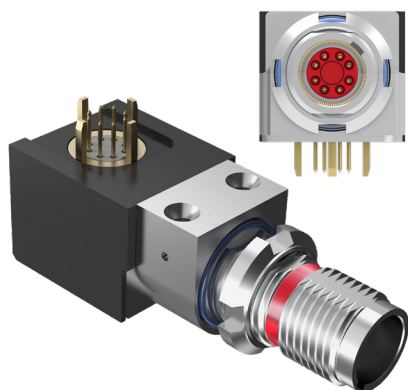
Nickel-plated tool steel, 1/4" sq. drive
13 - 18 in.-lbs. recommended torque



600-202-E



882-029 90° PC Tail Panel, Mount Receptacle, Threaded Coupling



100 ohm. Ultraminiature. High performance. PCB terminals.

882-029 SuperFly Datalink receptacles have eight socket contacts. Attach to .100" (2.54 mm) maximum thickness panel with spanner nut. PC tail contacts are gold plated or solder dipped in 63/37 tin-lead. Contacts are epoxy-sealed and are non-removable. Gold-plated EMI spring for low shell-to-shell resistance. Fluorosilicone O-rings for water-tight seal. *Mates to 882-025 plug.*

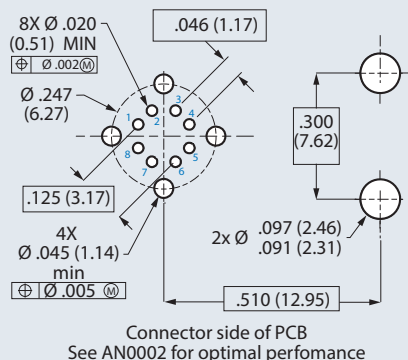
HIGH SPEED

- 5 Gbps per pair
- Low-dielectric insulators

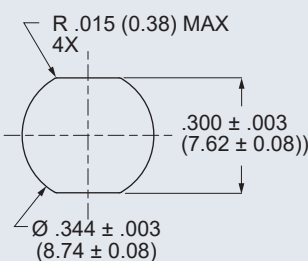
HARSH ENVIRONMENT

- EMI protection
- Water ingress
- Shock and vibration

PC Board Layout

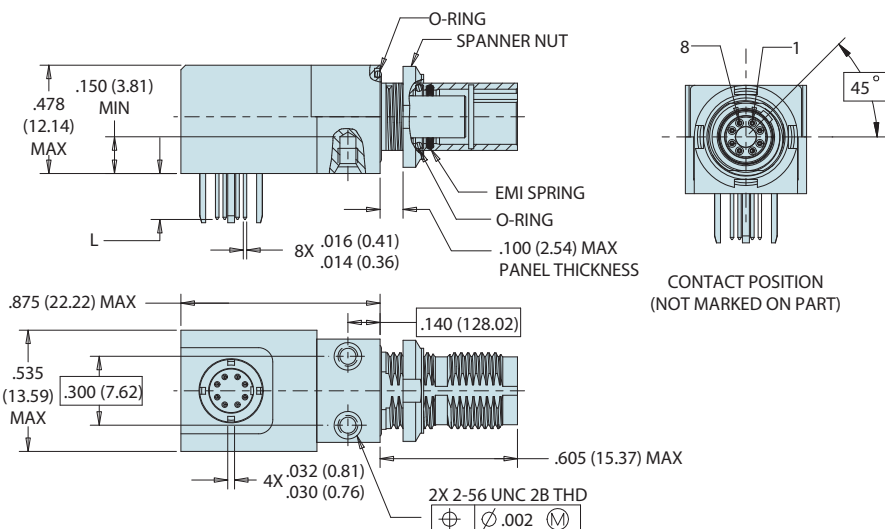


Panel Cutout



How To Order PC Tail, Panel Mount Receptacle

Sample Part Number	882-029	- MT	G	-.200
Product	882-029 = Right Angle, Panel Mount PC Tail Receptacle			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
PC Tail Option	G = Gold Plated S = Solder Dipped in 63/37 Tin-Lead			
Overall Length	PC Tail Length in Inches: .200			



Specifications

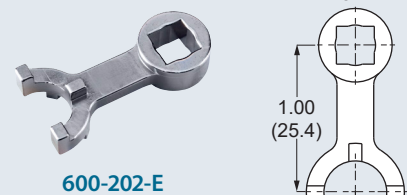
- **Operating temp.:** -65° to +175°C
- **Impedance:** 100 ohms
- **DWV:** 100 Vrms unmatd
- **Current Rating:** 1.5 A
- **IR:** 100 MΩ @ 150 Vdc
- **Durability:** 2000 mating cycles
- **Ingress protection:** IP67

Construction

- **Shell, jam-nut:** aluminum alloy or SST
- **Insulators and tray:** low-dielectric material
- **Contacts:** copper alloy, 50 microinches gold over nickel plating
- **O-rings:** fluorosilicone
- **EMI spring:** stainless steel, gold plated
- **Potting:** epoxy

Spanner Nut Tightening Tool

Steel alloy, nickel-plated tool, 1/4" sq. drive
13 - 18 in.-lbs. recommended torque



8573-0027 Threaded Coupling Corsdet, Single-Ended, 100 ohm



Lower installed cost. Save assembly time and cost with pre-wired SuperFly Datalink "Red" Octaxial assemblies for high-speed applications. These single-ended cordsets are terminated to 100 ohm cable. Series 882 connectors are designed for demanding aerospace environments subject to high vibration, temperature extremes and moisture.

SIZE AND WEIGHT SAVING

- Integral backshell and cable seal
- Secure threaded coupling nut

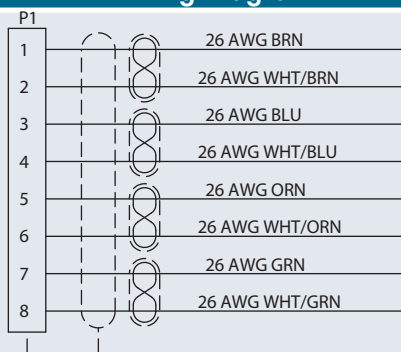
LOWER INSTALLED COST

- Factory-terminated SuperFly connector

HARSH ENVIRONMENT

- Vibration, EMI, moisture, and temperature

Wiring Diagram



Construction

- ❑ **Shell, coupling nut, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommets:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **Shield sleeve, ferrule:** copper alloy, electroless nickel plated
- ❑ **Cable:** FEP, LSZH polyurethane, or Duralectric® Lite or EF100 jacket material

Specifications

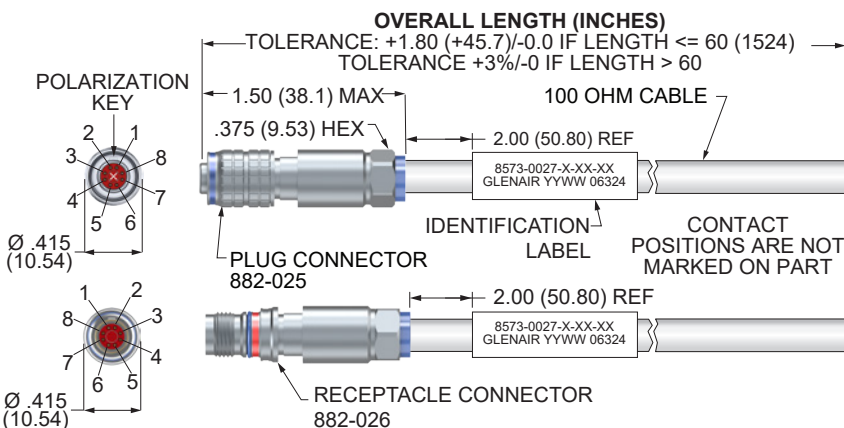
- ❑ **Operating temperature**
Connector: -65°C to +175°C
EF100, Duralectric Light: -65° to +200°C,
FEP: -65°C to 200°C
LSZH Polyurethane: -40°C to 90°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 500 Vrms
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 200 MΩ min.

How To Order Corsdet, Single-Ended

Sample Part Number	8573-0027	- M	-01	-36
Product	8573-0027 = Pre-wired Single-Ended, Cordset			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Order Code	See Table I for cable order code			
Overall Length	Length in Inches (12 inch minimum)			

Table I: Cable Order Code

Order Code	Connector P/N	Plug/Receptacle	Data Rate per pair	Cable	Jacket Material
01	882-025-X-01	Plug	Up to 1 Gbps	963-033-26	EF100
02	882-025-X-02	Plug	Up to 10 Gbps	963-122-1	Duraelectric Light
03	882-025-X-02	Plug	Up to 10 Gbps	963-122-2	LSZH Polyurethane
04	882-025-X-02	Plug	Up to 10 Gbps	963-122-3	FEP
05	882-026-X-01	Receptacle	Up to 1 Gbps	963-033-26	EF100
06	882-026-X-02	Receptacle	Up to 10 Gbps	963-122-1	Duraelectric Light
07	882-026-X-02	Receptacle	Up to 10 Gbps	963-122-2	LSZHPolyurethane
08	882-026-X-02	Receptacle	Up to 10 Gbps	963-122-3	FEP





8573-0028 Threaded Coupling Corsdet, Plug-to-Receptacle, 100 ohm



Lower installed cost. 100% tested.

Save assembly time and cost with pre-wired SuperFly Datalink "Red" Octaxial assemblies for 100 ohm applications. These back-to-back cordsets are terminated to 100 ohm cable. Series 882 connectors are designed for demanding aerospace environments subject to high vibration, temperature extremes and moisture.

SIZE AND WEIGHT SAVING

- <1/2 inch (12.7 mm.) diameter
- Secure threaded coupling

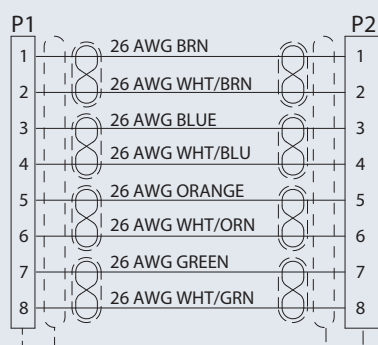
LOWER INSTALLED COST

- Factory-terminated
- 100% tested

HARSH ENVIRONMENT

- Vibration, EMI, moisture, and temperature

Wiring Diagram



Construction

- ❑ **Shell, coupling nut, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommets:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **Shield sleeve, ferrule:** copper alloy, electroless nickel plated
- ❑ **Cable:** FEP, LSZH polyurethane, or Duralectric® Lite or EF100 jacket material

Specifications

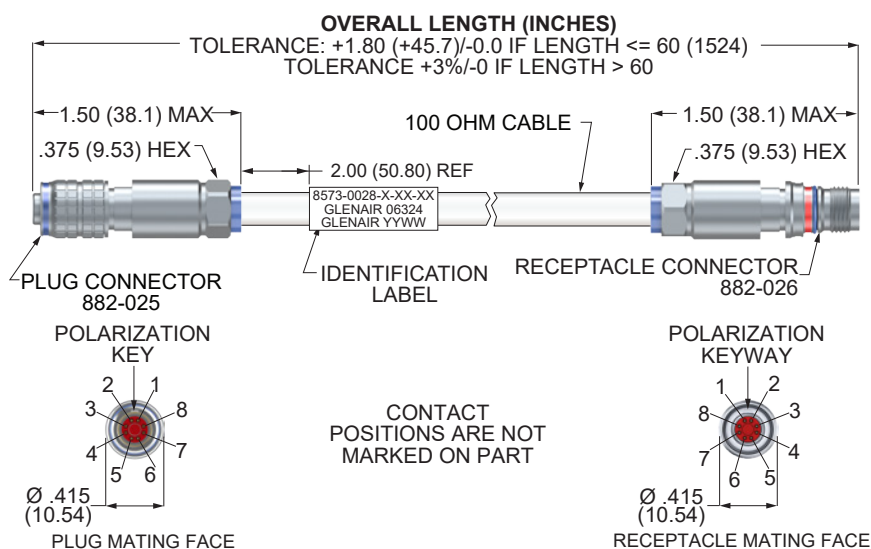
- ❑ **Operating temperature**
Connector: -65°C to +175°C
EF100, Duralectric Light: -65°C to +200°C,
FEP: -65°C to 200°C
LSZH Polyurethane: -40°C to 90°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 500 Vrms
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 200 MΩ min.

How To Order Plug-to-Receptacle Cordset

Sample Part Number	8573-0028	- M	-01	-36
Product	8573-0028 = Pre-wired, Plug to Receptacle Cordset			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Cable Type	See Table I for cable order code			
Overall Length	Length in Inches (12 inch minimum)			

Table I: Cable Order Code

Order Code	Plug P/N	Receptacle P/N	Data Rate per pair	Cable	Jacket Material
01	882-025-X-01	882-026-X-01	Up to 1 Gbps	963-033-26	EF100
02	882-025-X-02	882-026-X-02	Up to 10 Gbps	963-122-1	Duraelectric Light
03	882-025-X-02	882-026-X-02	Up to 10 Gbps	963-122-2	LSZH Polyurethane
04	882-025-X-02	882-026-X-02	Up to 10 Gbps	963-122-3	FEP



8573-0040 Threaded Coupling, Single-ended Cordset, SATA 3.0



Lower installed cost. Save assembly time and cost with pre-wired SuperFly Datalink "Red" Octaxial assemblies for high-speed SATA 3.0 applications. These single-ended cordsets are terminated to 100 ohm cable. Series 882 connectors are designed for demanding aerospace environments, subject to high vibration, temperature extremes and moisture.

SIZE AND WEIGHT SAVING

- Integral backshell and cable seal
- Secure threaded coupling nut

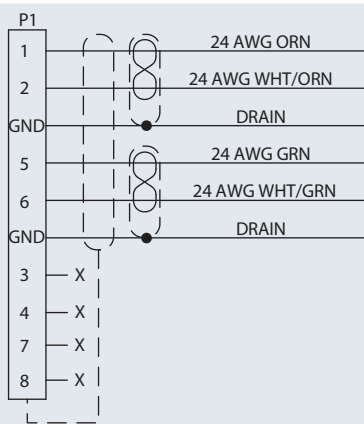
LOWER INSTALLED COST

- Factory-terminated SuperFly connector

HARSH ENVIRONMENT

- Vibration, EMI, moisture, and temperature

Wiring Diagram



How To Order Single-Ended Cordset

Sample Part Number	8573-0040	- M	-01	-36
Product	8573-0040 = Pre-wired, Single-Ended Cordset			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Order Code	See Table I for cable order code			
Overall Length	Length in Inches (12 inch minimum)			

Table I: Cable Order Code

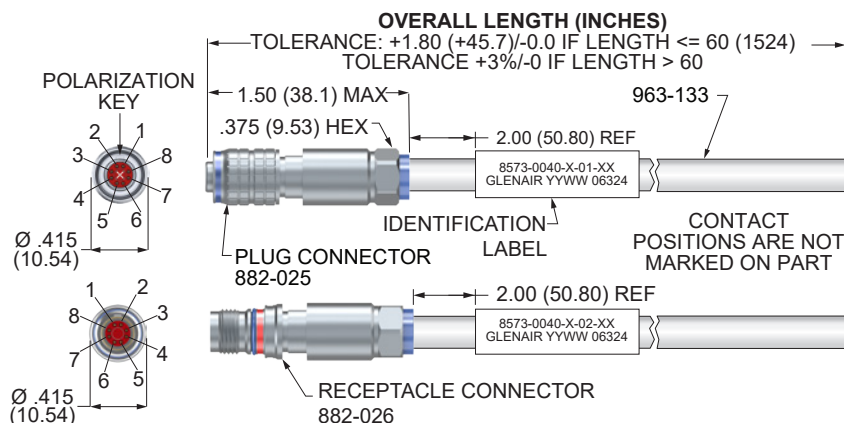
Order Code	Connector P/N	Plug/Receptacle	Cable
01	882-025-X-03	Plug	963-133
02	882-026-X-03	Receptacle	963-133

Construction

- ❑ **Shell, coupling nut, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommets:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **Shield sleeve, ferrule:** copper alloy, electroless nickel plated

Specifications

- ❑ **Operating temperature**
Connector: -65°C to +175°C
Cable: -55°C to +200°C
- ❑ **Impedance:** 100 ohms
- ❑ **DWV:** 300 Vrms
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 100 MΩ min.



8573-0041 Threaded Coupling Corsdet, Plug-to-Receptacle, SATA 3.0



Lower installed cost. 100% tested.

Save assembly time and cost with pre-wired SuperFly Datalink "Red" Octaxial assemblies for SATA 3.0 applications. These back-to-back cordsets are terminated to 100 ohm cable. Series 882 connectors are designed for demanding aerospace environments subject to high vibration, temperature extremes and moisture.

SIZE AND WEIGHT SAVING

- <1/2 inch (12.7 mm.) diameter
- Secure threaded coupling

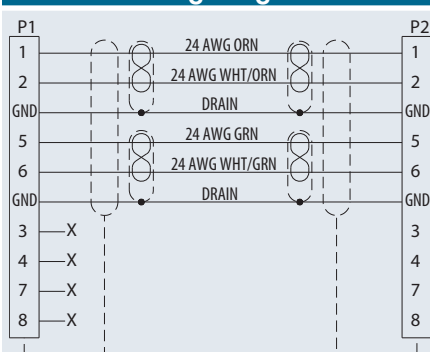
LOWER INSTALLED COST

- Factory-terminated
- 100% tested

HARSH ENVIRONMENT

- Vibration, EMI, moisture, and temperature

Wiring Diagram



Construction

- ❑ **Shell, coupling nut, backshell:** aluminum alloy or stainless steel
- ❑ **Insulators:** high-grade rigid dielectric
- ❑ **Contacts:** copper alloy, 50 microinches gold over nickel plating
- ❑ **Grommets:** fluorosilicone
- ❑ **O-rings:** fluorosilicone
- ❑ **Shield sleeve, ferrule:** copper alloy, electroless nickel plated

Specifications

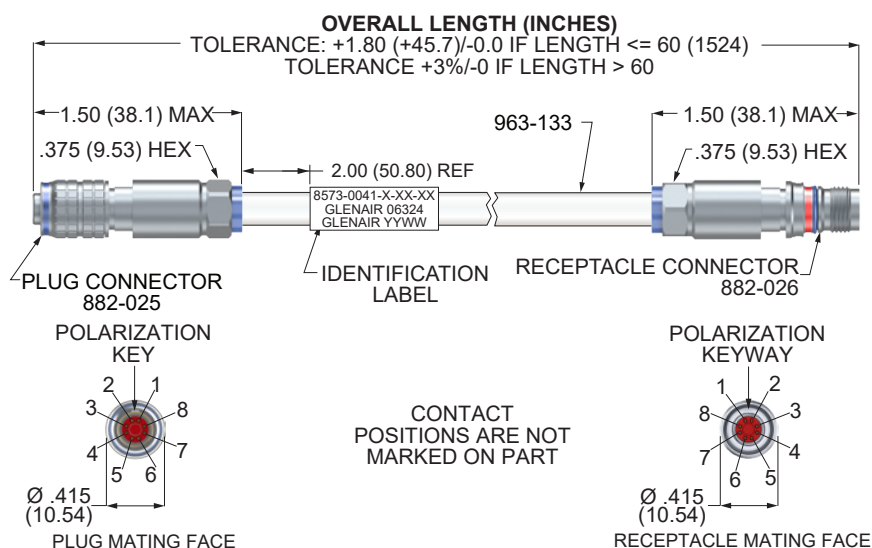
- ❑ **Operating temperature:**
Connector: -65°C to +175°C
Cable: -55°C to +200°C
- ❑ **DWV:** 300 Vrms
- ❑ **Current Rating:** 1.5 A
- ❑ **IR:** 100 MΩ min.

How To Order Plug-to-Receptacle Corsdet

Sample Part Number	8573-0041	- M	-01	-36
Product	8573-0041 = Pre-wired Plug to Receptacle Cordset			
Shell Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE ZK = Stainless Steel / Passivate			
Cable Type	See Table I for cable order code			
Overall Length	Length in Inches (12 inch minimum)			

Table I: Cable Order Code

Order Code	Plug P/N	Receptacle P/N	Cable
01	882-025-X-03	882-026-X-03	963-133



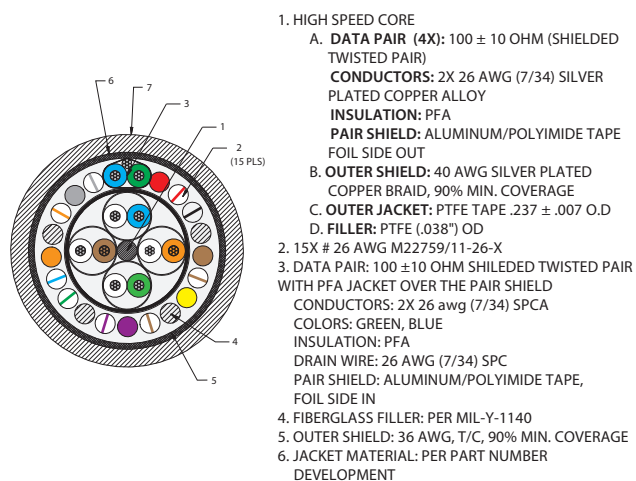
HDMI and DisplayPort Cables for El Ochito® Red

Aerospace Grade 26 AWG S/FTP, High-Speed Cable

Glenair Part Number	963-120-1 Duraelectric Light
	963-120-2 Polyurethane LSZH
	963-120-3 FEP Jacket

For use with El Ochito® red contacts. S/FTP 26 AWG cable has foil shield around each data pair for reduced crosstalk and attenuation. High data rate cable jacket is available in 3 material types including Duraelectric Lite, polyurethane and FEP. The high-density construction significantly reduces weight and diameter. Meets HDMI 2.0 and DisplayPort 1.2 up to 5 meters

Construction Details



Specifications

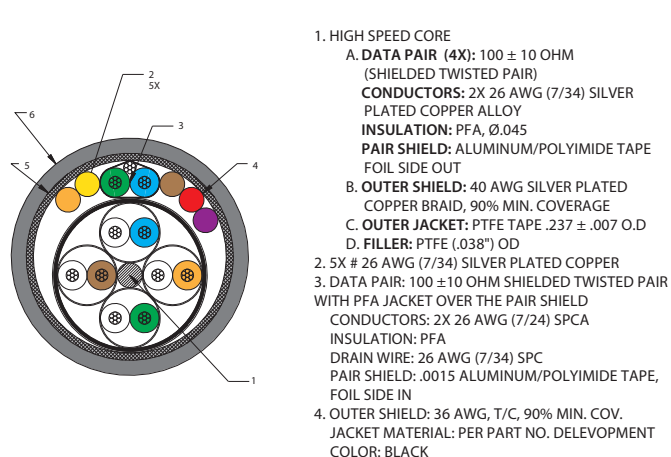
Jacket Material	963-120-1 Duraelectric Light	
	963-120-2 Polyurethane LSZH	
	963-120-3 FEP	
Impedance (ohms)	100 ±10	
Temperature Rating	963-120-1 and -3: -65° to +200° C	
	963-120-2: -40° to +90° C	
Outer Diameter	Part Number	Approx. Dia.
	963-120-1	.404 (10.26)
	963-120-2	.372 (9.45)
	963-120-3	.350 (8.89)
Jacket Color	Black	

26 AWG S/FTP, HDMI and DisplayPort Cable

Glenair Part Number	963-127-1 Duraelectric Lit
	963-127-2 Polyurethane LSZH
	963-127-3 FEP Jacket

For use with El Ochito® red contacts. S/FTP 26 AWG cable has a foil shield around each data pair for reduced crosstalk and attenuation. High data rate cable jacket is available in 3 material types including Duraelectric Lite, polyurethane LSZH and FEP. The high-density construction significantly reduces weight and diameter. Meets HDMI 2.0 and DisplayPort 1.2 up to 5 meters

Construction Details



Specifications

Jacket Material	963-127-1 Duraelectric	
	963-127-2 Polyurethane LSZH	
	963-127-3 FEP	
Impedance (ohms)	100 ±10	
Temperature Rating	963-127-1 and -3: -65° to +200° C	
	963-127-2: -40° to +90° C	
Outer Diameter	Part Number	Approx. Dia.
	963-127-1	.415 (10.54)
	963-127-2	.359 (9.12)
	963-127-3	.337 (8.56)
Jacket Color	Black	

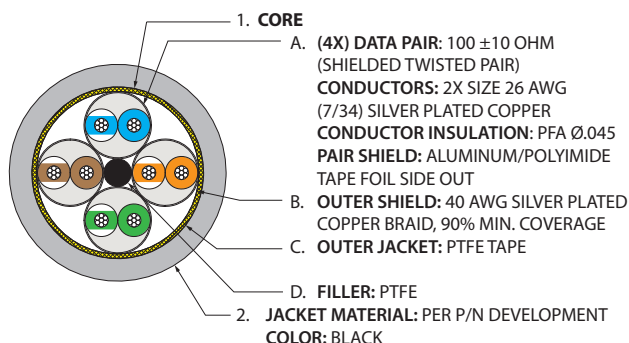
26 AWG High-Speed 4 Pair Cables for El Ochito® Red

Aerospace Grade 26 AWG S/FTP, High-Speed Cable

Glenair Part Number	963-122-1 Duraelectric Light
	963-122-2 Polyurethane LSZH
	963-122-3 FEP Jacket

S/FTP aerospace grade 26 AWG cable has an individual foil shield around each data pair for reduced crosstalk and attenuation. This high-speed cable features three cable jacket material options. High-density construction significantly reduces weight and diameter.

Construction Details



Color Code

Pair #1 Blue, White/Blue · Pair #2 Orange, White/Orange ·
Pair #3 Green, White/Green · Pair #4 Brown, White/Brown

Specifications

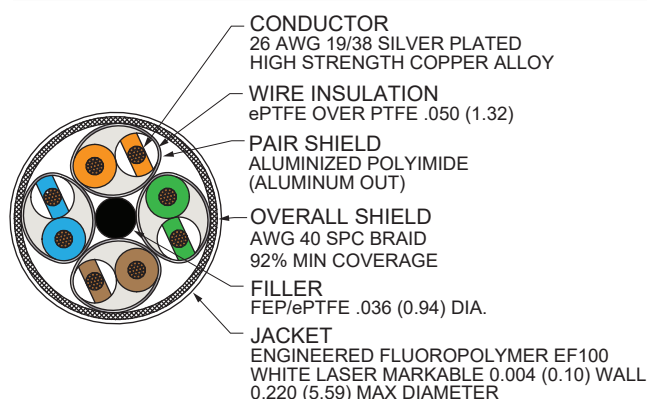
Jacket Material	963-122-1 Duraelectric	
	963-122-2 Polyurethane LSZH	
	963-122-3 FEP	
Impedance (ohms)	100 (+10 -5)	
Temperature Rating	963-122-1 & -3: -65° to +200° C	
	963-122-2: -40° to +90° C	
Weight (lbs/1000 ft.)	32.0	
Outside Diameter	963-122-1 and -3: .299 (7.59)	
	963-122-2: .277 (7.04)	
Capacitance (pF/ft)	12.5	
Time Delay	1.24 ns/ft	
Maximum Attenuation at 5m Length	Frequency	dB
	.625 Ghz	4.5
	.825 Ghz	5.0
	1.25 Ghz	6.5
	2.5 Ghz	9.5
	5.0 Ghz	15.5
	7.5 Ghz	21.0
	8.1 Ghz	22.5

26 AWG S/FTP Cat 6A Cable

Glenair Part Number	963-033-26
Manufacturer Part Number	RCN9047-26
Manufacturer	Gore

S/FTP 26 AWG cable has an individual foil shield around each data pair for reduced crosstalk and attenuation. This high data rate Ethernet cable features a unique cable jacket material and high-density construction that significantly reduces weight and diameter. Meets ANSI/TIA 568-C.2 Category 6A requirement up to 213 feet/65 meters. **Qualified to SAE AS6070/5 and /6.**

Construction Details



Color Code

Pair #1 Blue, White/Blue · Pair #2 Orange, White/Orange ·
Pair #3 Green, White/Green · Pair #4 Brown, White/Brown

Specifications

Impedance (ohms)	100 (+10 -5)	
Temperature Rating	-65° to +200°C	
Weight (lbs/1000 ft.)	32.0	
Bend Radius	.44 (11.18)	
Capacitance (pF/ft)	12.5	
Time Delay	1.24 ns/ft	
Maximum Attenuation at 65m Length	Frequency	dB
	10 MHz	5.9
	100 MHz	19.1
	200 MHz	27.6
	250 MHz	31.1
	500 MHz	45.3
NEXT (minimum)	Frequency	dB
	1 MHz	74.3
	10 MHz	59.2
	100 MHz	52.3
	250 MHz	47.9
	500 MHz	42.2

SATA Cable for El Ochito® Red

24 AWG Shielded Parallel Pair Cable

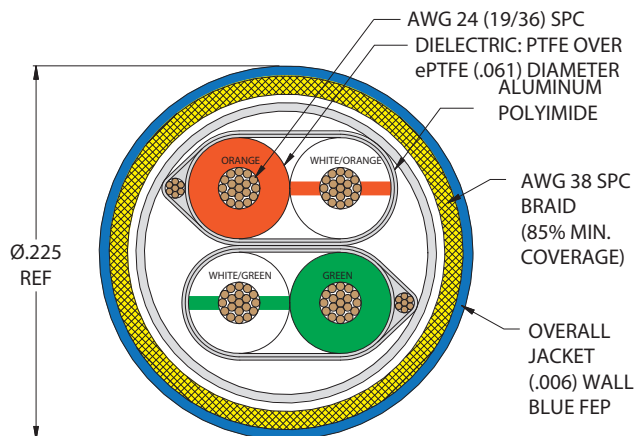
Glenair Part Number **963-133**

Manufacturer Part Number RCN9062

Manufacturer Gore

100 ohm, shielded parallel pair size 24 AWG cable has an individual foil shield around both data pairs for reduced crosstalk and attenuation plus a drain wire. This high data rate cable has a FEP blue wall jacket. PTFE over ePTFE dielectric.

Construction Details



Color Code

Orange, White/Orange , White/Green, Green

Specifications

Impedance	100 (+10 -5) ohms
Temperature Rating	55° C to 200° C
Time Delay	(1.24) nSec/Ft
Attenuation Trace	4 dB/ 5 meters variation Max @ 5.0 GHz between twin-ax pairs
Differential Attenuation	5.8 dB/ 5 meters max @1.0 GHz
	6.1 dB/ 5 meters max @ 1.25 GHz
	7.9 dB/ 5 meters max @ 2.50 GHz
	9.9 dB/ 5 meters max @ 3.75 GHz
	12.0 dB/ 5 meters max @ 5.00 GHz
	13.8 dB/ 5 meters max @ 6.00 GHz



Protective Covers and Part Number Index

Protective Covers

Series 882 SuperFly Datalink connectors are compatible with shell size E SuperFly protective covers. For ordering information, refer to the Series 88 SuperFly catalog or go to www.glenair.com/SuperFly.

Metal Covers

Quick Disconnect		Threaded Coupling	
Plug Cover	Receptacle Cover	Plug Cover	Receptacle Cover
			
667-357	667-356	667-362	667-366

Rubber Covers

Quick Disconnect		Threaded Coupling	
Plug Cover	Receptacle Cover	Plug Cover	Receptacle Cover
			
889-004	889-005	889-006	889-007

Part Number Index

667-357.....101	882-023.....76	963-033-24.....44	8571-0038.....43
667-356.....101	882-024.....77	963-033-26.....44, 99	8572-0006.....56
667-362.....101	882-025.....89	963-037-24.....45	8572-0007.....57
667-366.....101	882-026.....90	963-043.....101	8572-0008.....58
882-001.....17	882-027.....81	963-110.....67	8572-0010.....64
882-002.....18	882-028.....92	963-118.....67	8572-0011.....65
882-003.....32	882-029.....93	963-120.....98	8572-0013.....66
882-004.....35	882-030.....82	963-122.....99	8573-0025.....84
882-005.....22	882-031.....80	963-127.....98	8573-0026.....85
882-006.....33	882-032.....23	963-132-24.....46	8573-0027.....94
882-007.....36	882-033.....54	963-132-26.....46	8573-0028.....95
882-008.....24	882-034.....83	963-133.....100	8573-0029.....72
882-009.....48	882-035.....19	963-135-26.....47	8573-0030.....86
882-010.....49	882-036.....50	8571-0007.....25	8573-0031.....73
882-011.....59	882-037.....78	8571-0008.....26	8573-0032.....74
882-012.....62	882-038.....20	8571-0009.....27	8573-0033.....75
882-013.....53	882-039.....51	8571-0010.....28	8573-0038.....87
882-014.....60	882-040.....79	8571-0012.....37	8573-0039.....88
882-015.....63	882-041.....34	8571-0013.....38	8573-0040.....96
882-016.....55	882-042.....61	8571-0015.....39	8573-0041.....97
882-017.....21	882-043.....91	8571-0016.....40	
882-018.....52	889-004.....101	8571-0033.....29	
882-019.....68	889-005.....101	8571-0034.....30	
882-020.....69	889-006.....101	8571-0035.....31	
882-021.....70	889-007.....101	8571-0036.....41	
882-022.....71	963-003-26.....45	8571-0037.....42	



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