# 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.*
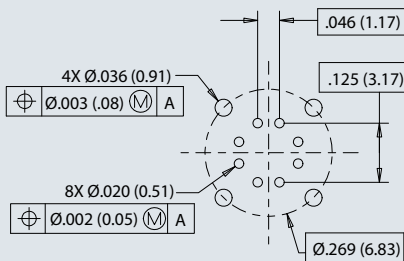
**SUPERSPEED**
- **5 Gbps**
- **Low-dielectric insulators**

**HARSH ENVIRONMENT**
- **EMI protection**
- **Water ingress**
- **Shock and vibration**

## Recommended PC Board Layout



.046 (1.17)
4X Ø.036 (0.91)
Ø.003 (.08) Ⓜ A
.125 (3.17)
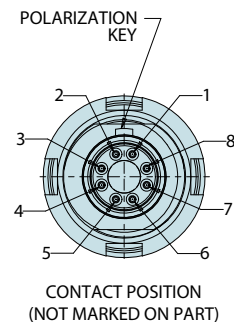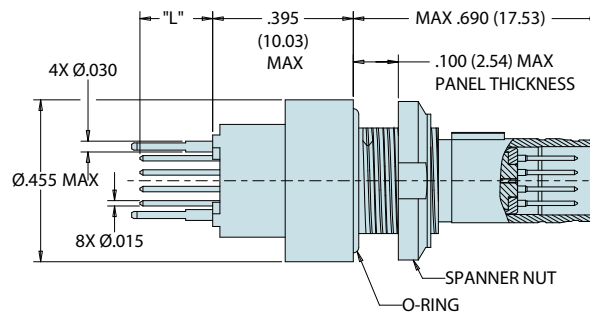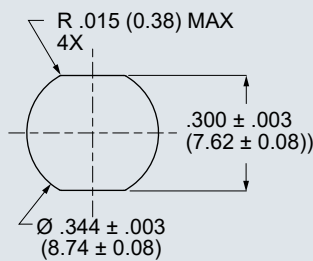8X Ø.020 (0.51)
Ø.002 (0.05) Ⓜ A
Ø.269 (6.83)

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

## 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** = Electroless Nickel (aluminum shell) **MT** = Nickel-PTFE (aluminum shell) **ZR** = Black Zinc-Nickel (aluminum shell) **Z2** = Gold (aluminum shell) **ZMT** = Nickel-PTFE (stainless steel shell) | | | | |
| **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



R .015 (0.38) MAX 4X
.300 ± .003 (7.62 ± 0.08))
Ø .344 ± .003 (8.74 ± 0.08)



"L"
4X Ø.030
.395 (10.03) MAX
MAX .690 (17.53)
.100 (2.54) MAX PANEL THICKNESS
Ø.455 MAX
8X Ø.015
SPANNER NUT
O-RING

POLARIZATION KEY
2 1
3 8
4 7
5 6
CONTACT POSITION
(NOT MARKED ON PART)

## 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, ¼" sq. drive
**13 - 18 in.-lbs. recommended torque**



1.00 (25.4)

**600-202-E**

El Ochito® Blue