DATA-CON-X™: SEALED MINI-USB TYPE B CONNECTORS

NEW PRODUCT BULLETIN C710
FEATURES & BENEFITS

• Sealed to IP67 & IP68 NEMA 250 (6P)
• Feed through, PC Tail or solder terminals for easy field installation
• Field installable design is easy to assemble
• Quick connect bayonet style interface
• RoHS compliant assembly

APPLICATIONS

• Any sealed data transmission
• Military or industrial GPS location devices
• Instrumentation
• Medical data carts
• Data acquisition units
• General industrial electronic applications
## SPECIFICATIONS

### Mechanical Specifications
- **Life:** 500 Cycles Minimum
- **Vibration:** Mil-Std 202G Method 201A
- **Hex Nut Torque:** 10-12 in-lb
- **Coupling Locking Style:** Quick Connect (Bayonet)
- **Backshell Style:** Threaded Nut-Squeezed Grommet

### Electrical Specifications
- Tested Per USB 2.0 Specifications

### Environmental Specifications
- **Operating Temperature Rating:** -20 °C to +75 °C (-4°F to +167°F)
- **Moisture Resistance:** Mil-Std 202G method 106G
- **Insulation Resistance:** Mil-Std 202G Method 302
- **Thermal Shock:** Mil-Std 202G Method 107G
- **Weathertight:** IP67 & IP68, NEMA 250 (6P) (when mated)

### Material Specifications
- **Plug Nut, Coupling Nut:** Thermoplastic
- **Plug Housing, Insert:** Thermoplastic
- **Sealing Ring, O-Ring:** Elastomer
- **Panel Housing, Hex Nut:** Thermoplastic
- **Gasket:** Elastomer
- **Printed Circuit Board (PCB):** FR-4

### Header:
- **Insulator:** Thermoplastic UL94V-0, Black
- **Contacts:** Copper Alloy, Gold Plated

### USB Mini-B Plug:
- **Insulator:** Thermoplastic UL94V-0, Black
- **Contacts:** Copper Alloy, Gold Plated (Contact Area)
- **Metal Shield:** Steel, Tin Plated

### USB Mini-B Receptacle:
- **Insulator:** Thermoplastic UL94V-0, Black
- **Contacts:** Copper Alloy, Gold Plated (Contact Area)
- **Metal Shield:** Copper Alloy, Nickel Plated

### Molded Cable Assemblies
- Consult factory for molded options

### Other
- **Recommended Cable O.D. Range:** 0.161-0.181 inches [4.1mm-4.6mm]
- **Recommended Panel Thickness:** 0.031-0.187 inches [0.8mm-4.8mm]
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**Part Number** | **Style** | **Description**
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DCC-USBNB-160 | Plug | Field Installable Cable Plug
DCP-USBNB-MNHD | Receptacle | Panel Mount: USB Mini-B to PC Tails
DCP-USBNB-MNSC | Receptacle | Panel Mount: USB Mini-B to Solder Holes
DCP-USBNB-USBN | Receptacle | Panel Mount: USB Mini-B Feed-thru