



## Harsh Environment Connectivity Solutions

---



### Data-Con-X®: Sealed Mini-USB

Data-Con-X® connectors from Conxall provide a great way to seal and standardize all of your data connections. These field installable sealed mini-USB connectors are sealed to a level of IP-68. They are also made from a UV resistant thermoplastic in order to reduce the affects of sunlight on the assembly

---

#### 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 302G  
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 Plating 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]