

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MUSBR Rugged USB Amphenol Commercial Products





Generation 2 Features

- Provides a standard USB interface ideal for harsh environments where Ethernet/IP Protocol is used
- Protection is provided for IP68 applications per IEC 60529 specification
- Reaches Data Rates up to 480Mbps (USB 2.0)
- Features an Epoxy-free assembly; sealed with O-rings & gaskets
- More robust construction with improved thermal cycling and a slim conductive panel gasket for enhanced EMI performance















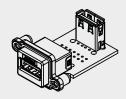


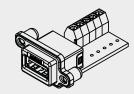
Markets

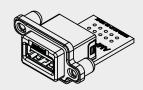
Amphenol's line of Rugged USB connectors serve many markets and applications across the globe including Transportation, Military, Medical and Industrial.

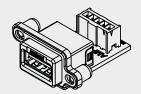


Amphenol Commercial Products MUSBR Rugged USB Series Connector









Photos Shown: MUSBR-A311-XX, MUSBR-A411-XX, MUSBR-AA11-XX, MUSBR-AB11-XX

Technical Specifications

External Shell: Die Cast Zinc, Nickel Plated

High Temperature Resistant Engineering Thermoplastic, Glass Reinforced, UL94V-0, Black **Insulator Housing: Contacts:** Phosphor Bronze, Plated with 0.76μm (30μ") min Gold over 1.27μm (50μ") min Nickel on

the Mating Area and 2.54µm (100µ") min Matte Tin over Nickel on the Contact Tails

Internal Shield & Rear Shield: Stainless Steel, Passivated

Panel Gasket: Conductive Silicone Rubber, Black

Internal O-ring: Silicone Rubber, Beige PCB: FR4 Fibreglass, Lead Free **Additional Connector: UL Recognized Component**

UL Recognition: Level DUXR2, File Number E135615, see Listing

Water & Dust Protection Level: Code IP67 per IEC 60529

Operating Temperature: -40°C to +105°C

Insertion Force: Per EIA-364-13, 35N (7.9lb,) max

Extraction Force: Per EIA-364-13, Standard A - 10N (2.2lb,) min

Mini - 7N (1.6lb.) min Initial, 3N (0.7lb.) min after Durability

Per EIA 364-09, Standard A - 1500 Mating Cycles **Durability:**

Mini - 5000 Mating Cycles

Vibration: Per EIA 364-28 Random Condition V, Letter A, No Discontinuity ≥ 1μs Shock: Per EIA 364-27 Test Condition H (11 ms, 30, ½ Sine), No Discontinuity ≥ 1μs

Temperature Life w/o Load: Per EIA-364-17, 105°C, 1000 Hours Thermal Shock: Per EIA-364-32, -40°C to +125°C, 5 Cycles

Per EIA 364-31, 10 Cycles, 240 Hrs, 25°C to 65°C 90-95%RH, with -10C Cold Shock **Humidity:**

Mixed Flowing Gas: Per EIA 364-65 Class IIA (Cl₂, NO₂, H₂S & SO₂), 14 Day Exposure **Solvent Resistance:** Isopropyl Alcohol & 5% Sodium Hydroxide Solution, 24 Hrs Each **Solderability:** Per EIA-364-52, 95% Coverage after Category 2 Steam Aging

Current Rating: Standard A - 30 mA max per Contact ($\Delta T \leq 30^{\circ}$ C)

Mini - 1A max per Contact ($\Delta T \le 30$ °C)

Standard A - 30 m Ω max **Contact Resistance:**

Mini - 50 mO max

Insulation Resistance: Standard A - 1000 MΩ min

Mini - 100 MΩ min

DWV: Standard A - 500 VAC rms

Mini - 100 VAC rms