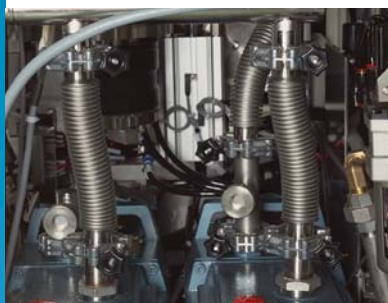




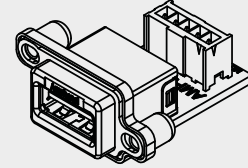
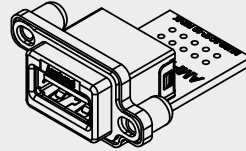
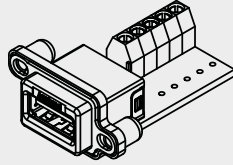
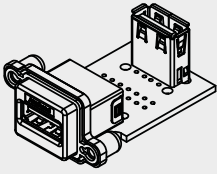
Generation 2 Features

- 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.



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

Technical Specifications

External Shell:	Die Cast Zinc, Nickel Plated
Insulator Housing:	High Temperature Resistant Engineering Thermoplastic, Glass Reinforced, UL94V-0, Black
Contacts:	Phosphor Bronze, Plated with 0.76 μ m (30 μ " min Gold over 1.27 μ m (50 μ " min Nickel on the Mating Area and 2.54 μ m (100 μ " 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 _f) max
Extraction Force:	Per EIA-364-13, <i>Standard A</i> - 10N (2.2lb _f) min <i>Mini</i> - 7N (1.6lb _f) min Initial, 3N (0.7lb _f) min after Durability
Durability:	Per EIA 364-09, <i>Standard A</i> - 1500 Mating Cycles <i>Mini</i> - 5000 Mating Cycles
Vibration:	Per EIA 364-28 Random Condition V, Letter A, No Discontinuity $\geq 1\mu$ s
Shock:	Per EIA 364-27 Test Condition H (11 ms, 30, 1/2 Sine), No Discontinuity $\geq 1\mu$ s
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
Humidity:	Per EIA 364-31, 10 Cycles, 240 Hrs, 25°C to 65°C 90-95%RH, with -10C Cold Shock
Mixed Flowing Gas:	Per EIA 364-65 Class IIA (Cl ₂ , NO ₂ , H ₂ S & SO ₂), 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:	<i>Standard A</i> - 30 mA max per Contact ($\Delta T \leq 30^\circ C$) <i>Mini</i> - 1A max per Contact ($\Delta T \leq 30^\circ C$)
Contact Resistance:	<i>Standard A</i> - 30 m Ω max <i>Mini</i> - 50 m Ω max
Insulation Resistance:	<i>Standard A</i> - 1000 M Ω min <i>Mini</i> - 100 M Ω min
DWV:	<i>Standard A</i> - 500 VAC rms <i>Mini</i> - 100 VAC rms