MHDR  Rugged HDMI Series Connectors

Features

- Superior seal beyond IP67 requirements
- Improved thermal cycling performance
- RoHS Compliant
- Receptacles will mate with any standard type A HDMI plug
- Conductive silicone rubber gasket
- Robust construction - Zinc die cast shell

Markets

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

To learn more about Harsh Environment Connectors:
web: amphenolcanada.com  email: sales@amphenolcanada.com
**Technical Specifications**

**External Shell:**
Die Cast Zinc, Matte Tin over Nickel Plated

**Housing Inserts:**
High Temperature Resistant LCP, Glass Reinforced, UL94V-0, Black

**Contacts:**
Copper Alloy 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 Shields & Rear Shields:**
Stainless Steel, Passivated

**Panel Gasket:**
Conductive Silicone Rubber, Black Silicone Rubber, Beige

**Water & Dust Protection Level:**
Code IP67 per IEC 60529

**Operating Temperature:**
-55°C to +105°C

**Insertion Force:**
Per EIA-364-13, 44.1N (4.5 kg, 9.1lb) max

**Withdrawal Force:**
Per EIA-364-13, 9.8N (1.0 kg, 2.2lb) to 39.2N (4.0 kg, 8.8lb)

**Durability:**
Per EIA 364-09, 10 000 Mating Cycles

**Vibration:**
Per EIA 364-28 Condition III (15g, 10-2000Hz, 12 Hrs), No Discontinuity ≥ 1μs

**Shock:**
Per EIA 364-27 Test Condition A (11ms, 50g, ½ Sine), No Discontinuity ≥ 1μs

**Temperature Life w/o Load:**
Per EIA-364-17, 105°C, 1000 Hours

**Thermal Shock:**
Per EIA-364-32, -55°C to +125°C, 10 Cycles

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

**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:**
0.5A max per Contact (ΔT ≤ 30°C)

**Contact Resistance:**
10 mΩ max, Initial

**Insulation Resistance:**
1000 MΩ min

**DWV:**
500 VAC rms (between adjacent contacts or contacts to ground)

**Differential Impedance:**
100 Ω ± 15%

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