



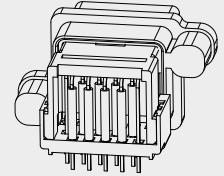
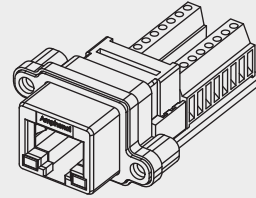
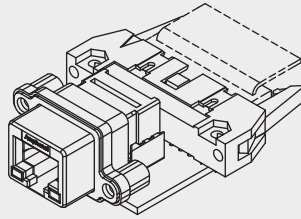
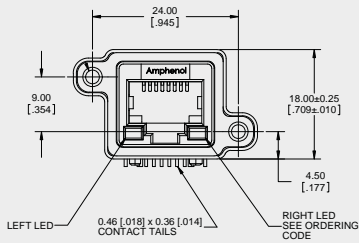
Generation 1 Features

- Provides a standard RJ interface ideal for harsh environments where Ethernet/IP Protocol is used
- Protection is provided for IP67 applications per IEC 60529 specification
- Data Rates conform to 10 Base-T
- Features standard epoxy sealing technology
- Available with ferrite filtering to reduce EMI for improved performance



Markets

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



Drawings Shown: MRJ-53XX, MRJ-55XX, MRJ-69XX, MRJ-63XX

Technical Specifications

External Shell:

Front Insert:

Rear Inserts:

Contacts:

Panel Gasket:

Mating Area Ground Tab:

LED's:

Rear Screws:

Internal O-rings:

PCB:

Additional Connector:

Ferrite:

UL Recognition:

Water & Dust Protection Level:

Operating Temperature:

Durability:

Vibration:

Shock:

Temperature Life w/ Load:

Temperature Life w/o Load:

Thermal Shock:

Humidity:

Humidity:

Mixed Flowing Gas:

Salt Spray:

Solvent Resistance:

LED Luminous Intensity:

Solderability:

Insertion & Withdrawal Force:

Effectiveness of Plug

Latch (Coupling Device):

Current Rating:

Contact Resistance:

Insulation Resistance:

DWV:

LED Characteristics:

Ferrite Characteristics:

Die Cast Zinc, Nickel Plated

Clear Polycarbonate, UL94V-0

High Temperature Resistant Nylon, Glass Reinforced, UL94-0, Black

Phosphor Bronze Alloy Plated with 1.7µm (50µ") 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

Conductive Silicone Rubber, Black

Nickel Plated Copper Alloy

Epoxy Lens, Tin Plated Steel Tails

Nickel Plated Steel

Silicone Rubber, Beige

FR4 Fibreglass, Lead Free

UL Recognized Component

Nickel Zinc Soft Ferrite Ceramic

Level DUXR2, File Number E135615

Code IP67 per IEC 60529

-55°C to +105°C

Per EIA 364-09, 2500 Mating Cycles

Per EIA 364-28 Condition II (10g, 10-500 Hz, 6 hours), No Discontinuity ≥ 1µs

Per EIA 364-27 Test Condition H (11ms, 30g, ½ Sine), No Discontinuity ≥ 1µs

Per EIA-364-17, 1.5 A, 70°C, 500 Hours

Per EIA-364-17, 105°C, 1000 Hours

Per EIA-364-32, -55°C to +105°C, 25 Cycles

Per EIA-364-31, 21 Cycles, 504 Hrs, 25°C to 65°C, 90-95%RH, with -10°C Cold Shock

Per EIA-364-31, Steady State, 21 Days, 50°C, 90-95%RH

Per EIA 364-65 Class IIA (Cl₂, NO₂, H₂S, & SO₂), 14 Day Exposure

Per EIA 364-26, 250 Hours, 5% Salt, 35°C

Isopropyl Alcohol & 5% Sodium Hydroxide Solution, 24 Hrs Each

0.5mCd min at 2mA Forward Current

Per EIA-364-52, 95% Coverage after Category 2 Steam Aging

Per EIA-364-13, 20N (4.5lb_f) max (Latch Disengaged)

Per EIA-364-13, 50N (11.2lb_f) min

1.5A max per Contact (ΔT ≤ 30°C)

20 mΩ max

500 MΩ min

1000 VAC rms (between adjacent contacts), 1500 VAC rms (contacts to ground)

Forward DC Current 25mA max, Forward Voltage 2.5V max @2mA

38 Ω at 25 MHz min Impedance, Common Mode Rejection -30dB min up to 250 MHz