

# **MRJR Series Rugged RJ45 Connectors**

## RUGGED RJ45 CONNECTORS FOR HARSH ENVIRONMENT APPLICATION, GENERATION 2

Amphenol's MRJR series RJ45 Connectors serve many markets and applications across the globe including Automotive, Communications, Industrial, Medical and Military.

MRJR series is a line of Generation 2 ruggedized RJ45 connectors with die cast housings and IP67 sealing, designed for Harsh Environment applications. MRJR provides a standard RJ45 interface. Protection is provided for IP67 applications per IEC 60529 specification. Data rates conform to 10BaseT or 100BaseT Ethernet.

- IP67 environmental sealing protects against water and dust
- Die cast metal housings protect against mechanical damage
- Wide variety of mounting and termination options
- Operating temperature range from -55°C to +105°C for extreme conditions
- RoHS compliant to meet environmental standards



### **FEATURES**

- Internal and external seals made with flexible silicone rubber
- Die cast metal housings
- Standard RJ interface where Ethernet/IP Protocol is used
- Mates with existing standard connectors
- Similar in size compared to standard equivalents
- Wide variety of mounting and termination options
- RoHS compliant

#### **BENEFITS**

- Excellent sealing to IP67 and higher protection over wide temperature range
- Protects equipment from water and dust incursion
- Mechanically rugged and stable to protect against shock, vibration and impact
- Prevents distortion
- Can be used in wide variety of applications where standard RJs would be used
- Suitable for a wide variety of mating connectors which are readily available
- Able to replace existing standard parts with little to no changes
- Replace virtually any existing standard connector using standard footprints and mounting hardware
- Meets environmental, health and safety requirements

### **TECHNICAL INFORMATION**

#### **MATERIAL**

- External Shell: Die Cast Zinc, Nickel Plated
- Front Insert: Clear Polucarbonate, UL94V-0
- Rear Inserts: High Temperature Resistant Nylon, Glass Reinforced, UL94V-0, Black
- Contacts: Phosphor Bronze, Plated with 1.27um (50u") min Gold over 1.27um (50u") min Nickel on the Mating Area and 2.54um (100u") min Matte Tin over Nickel on the Contact Tails
- Mating Area Ground Tab: Nickel Plated Copper Alloy
- Panel Gasket: Conductive Silicone Rubber, Black
- LED's: Epoxy Lens, Tin Plated Steel Tails
- Rear Screws: Nickel Plated Steel
- Internal O-ring: Silicone Rubber, Beige
- Printed Circuit Board: FR4 Fibreglass, Lead Free
- Additional Connector: UL Recognized Component
- Ferrite: Nickel Zinc Soft Ferrite Ceramic

#### **ELECTRICAL PERFORMANCE**

- Current Rating: 1.5A max per Contact (delta T ≤ 30°C)
- Contact Resistance: 20mΩ max
- Insulation Resistance:  $500m\Omega$  min
- Dielectric Withstanding Voltage: 1000 VAC rms (between adjacent contacts), 1500 VAC rms (contacts to ground)
- LED Characteristics: Forward DC Current 25mA max, Forward Voltage 2.5V max @2mA

#### **MECHANICAL PERFORMANCE**

- UL Recognition: Level DUXR2, File Number E135615
- Water & Dust Protection Level: Code IP67 per IEC 60529
- Operating Temperature: -55°C to +105°C
- Durability: Per EIA 364-09, 2500 Mating Cycles
- Vibration: Per EIA 364-28 Random Condition II (10g, 10-500Hz, 6 Hours), No Discontinuity > 1μs
- Shock: Per EIA 364–27 Test Condition A (11 ms, 50g, 1/2 Sine), No Discontinuity > 1μs
- Insertion & Withdrawal Force: Per EIA-364-13, 20N (4.5lbf) max (Latch Disengaged)

#### **SPECIFICATION**

 Amphenol Product Specification: TIA-1096-A, IEC 60603-7, IEC 60529

#### **APPROVALS AND CERTIFICATIONS**

RoHS

#### **PACKAGING**

Tray

#### **ENVIRONMENTAL**

- Temperature Life w/ Load: Per EIA-364-17, 1.5 A, 70°C, 500 Hours
- Temperature Life w/o Load: Per EIA-364-17, 105°C, 1000 Hours
- Thermal Shock: Per EIA-364-32, -55°C to +105°C, 25 Cycles
- Humidity: Per EIA 364-31, 21 Cycles, 504 Hrs, 25°C to 65°C, 90-95%RH, with −10°C Cold Shock
- Humidity: Per EIA-364-31, Steady State, 21 Days, 50°C, 90-95%RH
- Mixed Flowing Gas: Per EIA 364-65 Class IIA (Cl2, NO2, H2S & SO2), 14 Day Exposure
- Salt Spray: Per EIA 364-26, 250 Hours, 5% Salt, 35°C
- Solvent Resistance: Isopropyl Alcohol & 5% Sodium Hydroxide Solution, 24 Hrs Each
- LED Luminous Intensity: 0.5mCd min at 2mA Forward Current
- Solderability: Per EIA-364-52, 95% Coverage after Category 2 Steam Aging

#### TARGET MARKETS/APPLICATIONS



Transportation



Datacom Telecom



Energy Industrial



Medical



Military

# **PART NUMBER SELECTOR**

Termination Style  Modular Jack Type  Modular Jack Type  3 Right Angle  Wodular Jack Type  3 Right Angle  4 Vertical  5 Right Angle on PCB with Right Angle Cable Header  7 Right Angle on PCB with Vertical Right Modular Jack  8 Right Angle on PCB with Holes for Wiring (Style 5 PCB)  8 Right Angle on PCB with Holes for Wiring (Style 5 PCB)  8 Right Angle on PCB with Holes for Wiring (Style 5 PCB)  8 Right Angle on PCB with Holes for Wiring (Style 7 PCB)	MRJI	R —	- )		Х		х	Х		X	2	X		_		x		_	Unique Special Code					
Other Features  1 1 port (vertical has through hole mountin right angle has threaded lug)  F 1 port, vertical connector, threaded lug mounting  Tail Length & Thread Options  0 2.54mm [100"] Tail Length, #4-40 UNC Thread  B 3.81mm [150"] Tail Length, #4-40 UNC Thread  M 2.54mm [100"] Tail Length, M3 x 0.5 Thread  P 3.81mm [150"] Tail Length, M3 x 0.5 Thread  P 3.81mm [150"] Tail Length, M3 x 0.5 Thread  P 3.81mm [150"] Tail Length, M3 x 0.5 Thread  P 3.81mm [150"] Tail Length, M3 x 0.5 Thread  P 3.81mm [150"] Tail Length, M3 x 0.5 Thread  P 3.81mm [150"] Tail Length, M3 x 0.5 Thread  P 3.81mm [150"] Tail Length, M3 x 0.5 Thread  R 4 Vellow left, Green right  5 Green left, Green right  6 Green left, Green right  7 Right Angle on PCB with Right Angle Cable Header  7 Right Angle on PCB with Right Angle RJ45 Modular Jack  8 Right Angle on PCB with Vertical RJ45 Modular Jack  8 Right Angle on PCB with Terminal Blocks  A Right Angle on PCB with Terminal Blocks  A Right Angle on PCB with Vertical Cable Header  C Right Angle on PCB with Holes for Wiring (Style 5 PCB)  B Right Angle on PCB with Holes for Wiring (Style 5 PCB)					Ī		Г												No I	Digit	Part defined b	y prev	ious 10 digits	;
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Part   Tight angle has threaded lug    Fail Length & Thread Options															$\dashv$			Other Fea	atures					
Tail Length & Thread Options  Tail Length & Thread Options  Description of Thread  Bashimm [150"] Tail Length, #4–40 UNC Thread  Mashimm [150"] Tail Length, #4–40 UNC Thread  Mashimm [150"] Tail Length, #3 x 0.5 Thread  Pashimm [150"] Tail Length, M3 x 0.5 Thread  LED options  Number of Contacts  4 Yellow left, Green right  5 Green left, Yellow right  4 Yellow left, Green right  5 Green left, Green right  A Bi-colour Green/Yellow Left & Right  Number of Contacts  4 A contacts  6 6 Contacts  8 8 Contacts  8 8 Contacts  A 10 contacts  Yerrical  Fashit Angle on PCB with Right Angle Cable Header  7 Right Angle on PCB with Right Angle RJ45 Modular Jack  8 Right Angle on PCB with Right Angle RJ45 Modular Jack  9 Right Angle on PCB with Perrical RJ45 Modular Jack  9 Right Angle on PCB with Holes for Wiring (Style 5 PCB)  RJ45, 8 or 10 Position with Transient  Voltage Suppression  RJ45, 8 Position with Cat's Performance  C Right Angle on PCB with Holes for Wiring (Style 5 PCB)																1					ng			
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