

# IP67 Latching RJ45 Plugs & Jacks

## IP67-RATED RUGGEDIZED RJ45 LATCHING CONNECTORS MRK SERIES

Amphenol's MRK series of RJ45 Connectors provides IP67 protection for Cable-to-Panel applications.

MRK plug housings are designed to be used with user-supplied standard RJ45 cable-mounted plugs. Plug housings are available with metal/plastic construction and Metal Thumb Latch Coupling, or all-metal construction with Bayonet Coupling. The mating receptacles feature an integrated RJ45 Jack and matching IP20 RJ45 jack on the termination side, and a square mounting flange with 4 screw mount holes.

This series are designed to provide Ethernet or other protocol connectivity solutions for a variety of environments and applications, including Industrial, Telecommunications, Datacom, Medical, Energy, Transportation, etc.

- Provides an IP67 standard RJ45 mating interface per IEC 60529
- RoHS-compliant
- UL 94 V-0 high-temperature resistant housing
- Operating temperature range from -40 °C to +80 °C
- Thumb Latch Locking or Bayonet Coupling mechanism
- MRK plug housings accept standard IP20 RJ45 cable mounted plugs (user-supplied) and feature a rear cable grommet with compression nut to seal to the cable jacket
- MRK receptacles feature a square flange with integrated IP67 panel gasket and 4 screw mounting holes
- Receptacles provide an IP20 RJ45 jack on the rear side for connection to the user's equipment with a standard RJ45 plug
- Available as factory made cable assemblies and adapters



### TARGET MARKETS



## ▶ IP67 Latching RJ45 Plugs & Jacks

### FEATURES

- Standard RJ45 mating interface
- UL 94 V-0 rated high-temperature housing and inserts
- IP67 plug housing accepts user-supplier plug/cable
- IP67 receptacle terminated to IP20 RJ45 jack
- Metal Bayonet Coupling Ring or Thumb Latch on Plug
- Suitable for many user defined configurations
- Metal & plastic construction
- RoHS-compliant

### BENEFITS

- Mates to IP67 plug, or standard IP20 RJ45 plug
- Operating temperature range of -40 °C to +80 °C
- Suitable for many user defined configurations
- Connects to user-equipment using standard IP20 plug
- Secure latching to ensure IP67 performance
- Ensures correct mating orientation
- Extremely durable for harsh environments
- Meets environmental and safety standards

### TECHNICAL INFORMATION

#### MATERIAL

- Latch Lock Design:
  - Outer Housing: Engineering thermoplastic, UL 94 V-0
  - Inner Housing: Die-cast Zinc Alloy, Chrome-plated
  - Internal Insulator: Engineering thermoplastic, UL 94 V-0
  - Latch: Die-cast Zinc Alloy, Chrome-plated
  - Rear Cable Nut: Engineering thermoplastic, UL 94 V-0
  - Grommets & O-Rings: Silicone Rubber
  - RJ45 Insulator: Engineering thermoplastic, UL 94 V-0
  - RJ45 Contacts: Copper Alloy, with Gold over Nickel plating
- Bayonet Design:
  - Outer Housing: Aluminum Alloy, Anodized
  - Coupling Ring: Aluminum Alloy, Anodized
  - Rear Cable Nut: Aluminum Alloy, Anodized
  - Grommets & O-Rings: Silicone Rubber
  - Internal Insulator: Engineering thermoplastic, UL 94 V-0
  - RJ45 Insulator: Engineering thermoplastic, UL 94 V-0
  - RJ45 Contacts: Copper Alloy, with Gold over Nickel plating

#### ELECTRICAL PERFORMANCE

- Current Rating: 1.5 A per contact
- Voltage Rating: 125 VAC
- Contact Resistance: 20 mΩ max.
- Dielectric Withstanding Voltage (DWV): 500 VAC/1 minute @ sea level
- Insulation Resistance: 1000 MΩ min.

#### MECHANICAL PERFORMANCE

- Durability: 1500 mating cycles
- Cable Outside Diameter (plug): 5 to 9 mm

#### PACKAGING

- Box

#### APPROVALS & CERTIFICATION

- RoHS-compliant per EU directive 2011/65/EU and amendments

#### ENVIRONMENTAL

- Ingress Protection: IP67 Per IEC 60529 in Mated Condition
- Operating Temperature Range: -40 °C to +80 °C
- RoHS compliant per EU directive 2011/65/EU and amendments

#### TARGET MARKETS/APPLICATIONS



Telecom  
Datacom  
IoT



Human Machine Interface (HMI)



Data Management  
Cyber security



Manufacturing  
Power Generation  
Oil & Gas



Healthcare  
Automotive  
Retail



Digital Health & Telemedicine  
Biotechnology

### PART NUMBERS

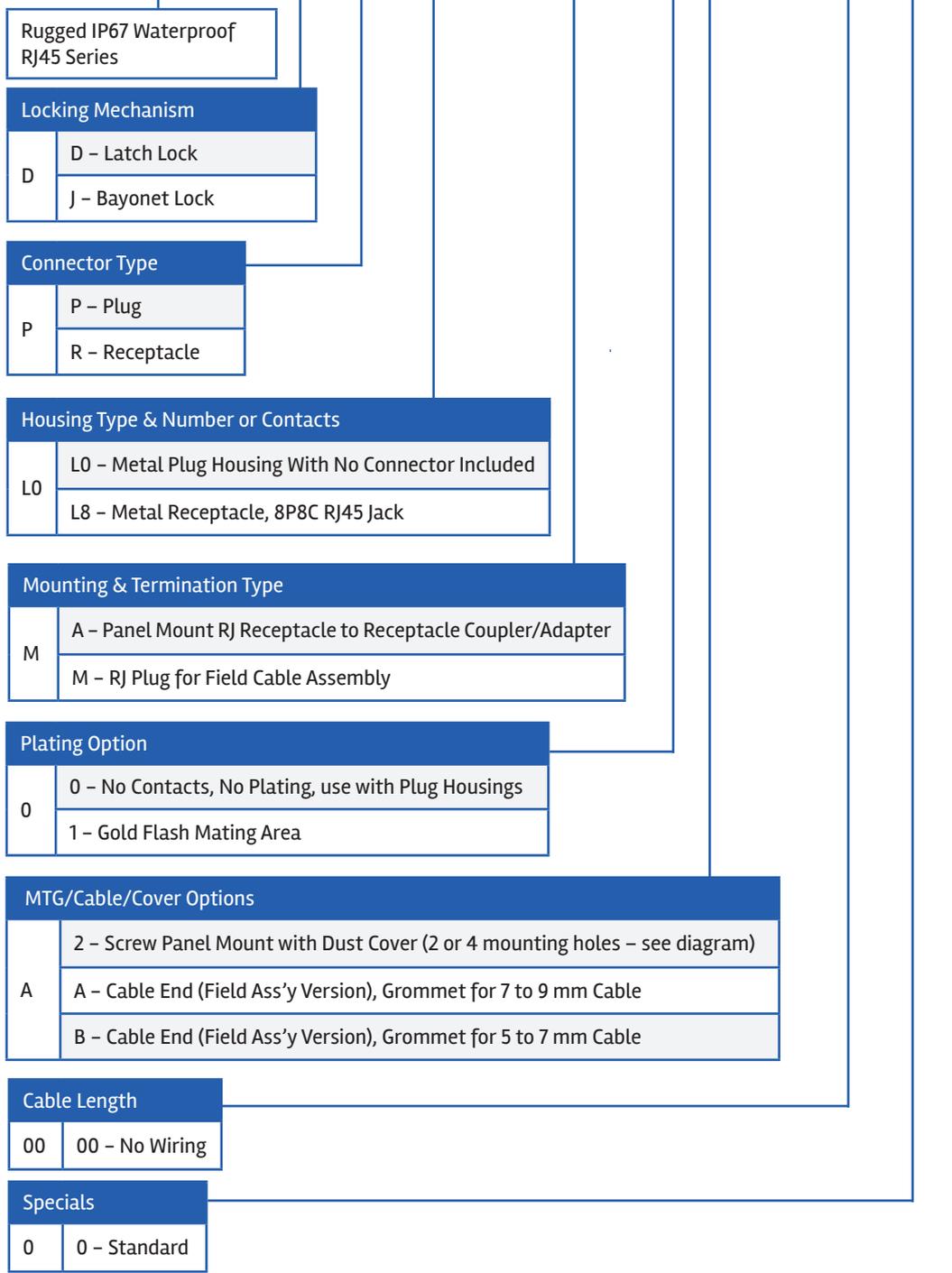
Description	Part Numbers
Plug Housing, RJ45, IP67 Latch lock, excludes RJ45 Plug (User-supplied), Cable Diameter 7 to 9 mm	MRK-DPLO-M0A-000
Plug Housing, RJ45, IP67 Latch lock, excludes RJ45 Plug (User-supplied), Cable Diameter 5 to 7 mm	MRK-DPLO-M0B-000
Receptacle, RJ45, IP67, Latch Lock, 4 Hole Flange to IP20 Receptacle with Dust Cover	MRK-DRL8-A12-000
Plug Housing, RJ45, IP67, Bayonet, excludes RJ45 Plug (User-supplied), Cable Diameter 7 to 9 mm	MRK-JPLO-M0A-000
Plug Housing, RJ45, IP67, Bayonet, excludes RJ45 Plug (User-supplied), Cable Diameter 5 to 7 mm	MRK-JPLO-M0B-000
Receptacle, RJ45, IP67, Bayonet, 4 Hole Flange to IP20 Receptacle	MRK-JRL8-A13-000

Find part number details using the search box on [www.amphenol-cs.com](http://www.amphenol-cs.com)

## PART NUMBER SELECTOR – RUGGED IP67 WATERPROOF RJ45 SERIES

Find part number details using the search box on [www.amphenol-cs.com](http://www.amphenol-cs.com)

**MRK** — **D** | **P** | **L0** — **M** | **0** | **A** — **00** | **0**



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