

IP67 Latching RJ45 Plugs & Jacks

IP67-RATED RUGGEDIZED RJ45 LATCHING CONNECTORS MRK SERIES

Amphenol's MRK series of RJ45 Connectors provides IP67 protection in a circular form factor 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
- UL94V-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 HDMI mating interface
- UL94V-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, UL94V-0
 - Inner Housing: Die-cast Zinc Alloy, Chrome-plated
 - Internal Insulator: Engineering thermoplastic, UL94V-0
 - Latch: Die-cast Zinc Alloy, Chrome-plated
 - Rear Cable Nut: Engineering thermoplastic, UL94V-0
 - Grommets & O-Rings: Silicone Rubber
 - HDMI Insulator: Engineering thermoplastic, UL94V-0
 - HDMI 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, UL94V-0
 - HDMI Insulator: Engineering thermoplastic, UL94V-0
 - HDMI Contacts: Copper Alloy, with Gold over Nickel plating

ELECTRICAL PERFORMANCE

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

MECHANICAL PERFORMANCE

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

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: -40°C to +80°C
- RoHS compliant per EU directive 2011/65/EU and amendments

TARGET MARKETS/APPLICATIONS



Datacom Telecom



HMI's



Server Storage



Energy Industrial



Medical



Robotics

PART NUMBERS

Description	Part Numbers
Plug Housing, RJ45, IP67 Latch lock, excludes RJ45 Plug (User-supplied), Cable Diameter 7 to 9mm	MRK-DPL0-M0A-000
Plug Housing, RJ45, IP67 Latch lock, excludes RJ45 Plug (User-supplied), Cable Diameter 5 to 7mm	MRK-DPL0-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 9mm	MRK-JPL0-M0A-000
Plug Housing, RJ45, IP67, Bayonet, excludes RJ45 Plug (User-supplied), Cable Diameter 5 to 7mm	MRK-JPL0-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

PART NUMBER SELECTOR

Find part number details using the search box on www.amphenol-cs.com

MRK	—	D	P	L0	—	M	0	A	—	00	0
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Rugged RJ45 Series Circular

Locking Mechanism

D	D – Latch Lock
	J – Bayonet Lock

Connector Type

P	P – Plug
	R – Receptacle

Housing Type & Number or Contacts

L0	L0 – Metal Plug Housing With No Connector Included
	L8 – Metal Receptacle, 8P8C RJ45 Jack

Mouting & Termination Type

M	A – Panel Mount RJ Receptacle to Receptacle Coupler/Adapter
	M – RJ Plug for Field Cable Assembly

Plating Option

0	0 – No Contacts, No Plating, use with Plug Housings
	1 – Gold Flash Mating Area

MTG/Cable/Cover Options

A	2 – Screw Panel Mount with Dust Cover (2 or 4 mtg holes – see
	A – Cable End (Field Ass'y Version), Grommet for 7 to 9mm Cable
	B – Cable End (Field Ass'y Version), Grommet for 5 to 7mm Cable

Cable Length

00	00 – No Wiring
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Specials

0	0 – Standard
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