

IP67 Latching HDMI Plug Cables & Receptacles

IP67-RATED RUGGEDIZED HDMI TYPE A LATCHING CONNECTORS & CABLES MRH SERIES

Amphenol's MRH series of HDMI Type A Connectors and Cables provide IP67 protection in a circular form factor for Cable-to-Panel applications.

MRH plug cables are terminated to IP20 HDMI Type A plugs. Plug housings are available with metal/plastic construction and Metal Thumb Latch Coupling, or all-metal construction with Bayonet Coupling. The receptacle adapter features an HDMI Type A jack on one side and IP20 HDMI Type A jack on the other side. It also has a square mounting flange with 4 screw mount holes and integrated sealing panel gasket with an optional dust cover.

Designed to provide HDMI protocol connectivity solutions for a variety of environments and applications, including Industrial, Datacom, Telecommunications, Medical, Energy, Transportation, etc.

- Provides an IP67 Standard HDMI Type A 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
- MRH plug cables are terminated to standard HDMI Type A IP20 plugs
- MRH receptacles feature a square flange with integrated IP67 panel gasket and 4 screw mounting holes
- Receptacles provide an IP20 HDMI Type A jack on the rear side for connection to the user's equipment with a standard HDMI Type A plug



TARGET MARKETS



FEATURES

- Standard HDMI mating interface
- UL94V-0 rated high-temperature housing and inserts
- IP67 plug cable with overmolded HDMI IP20 plug
- Metal Bayonet Coupling Ring or Thumb Latch on Plug
- Polarized mating alignment features
- Suitable for many user defined configurations
- Metal & plastic construction
- RoHS-compliant

BENEFITS

- Mates to HDMI Plug, or standard IP20 HDMI 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: 0.5A per contact
- Voltage Rating: 5VAC
- Contact Resistance: 30mΩ max.
- Dielectric Withstanding Voltage (DWV): 300VAC/1 minute @ sea level
- Insulation Resistance: 1000MΩ min.

MECHANICAL PERFORMANCE

- Durability: 1700 mating cycles
- Cable: UL AWM 20276 80°C 30V VW-1
- Wire Gauge: 26AWG

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

TARGET MARKETS/APPLICATIONS



Datacom Telecom



HMI's



Server Storage



Energy Industrial



Medical



Robotics

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PART NUMBERS

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

Description	Part Numbers
Cable Assembly, HDMI Type A, IP67, Latch Lock Plug to IP20 Plug, 1m	MRH-DP01-E19-A00
Receptacle, HDMI Type A, IP67 Latch Lock, 4 Hole Flange to IP20 Receptacle, with Dust Cover	MRH-DR01-A13-000
Cable Assembly, HDMI Type A, IP67, Bayonet Plug to IP20 Plug, 1m	MRH-JP01-E19-A00
Receptacle, HDMI Type A, IP67 Bayonet, 4 Hole Flange to IP20 Receptacle, without Dust Cover	MRH-JR01-A12-000

* Other cable lengths and configurations available – Consult Amphenol Sales

PART NUMBER SELECTOR

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

MRH — D P 01 — E1 9 — A0 0

Connector Series – HDMI

Locking Mechanism

D

D – Latch Lock (24mm)

J – Bayonet Lock (24mm)

Configuration / Gender

P

P – Plug

R – Receptacle

HDMI Type

01

01 – Type A

Termination Type

E1

A1 – IP20 (Receptacle Adapter)

E1 – Plug on assembled cable (Non-field assembly)

Mounting Style

9

2 – Panel Mount Receptacle without Dust Cover

3 – Panel Mount Receptacle with Dust Cover

9 – Cable to HDMI Type A IP20 Plug

Cable Length

A0

00 – No Cable

XX – Cable Length (See Table); A0 = 1 Meter

Specials

0

0 – Standard

Cable Length

FIRST X		SECOND X	
CODE	METERS	CODE	METERS
A	1.0	0	0
		1	0.1
B	2.0	2	0.2
		3	0.3
C	3.0	4	0.4
		5	0.5
D	4.0	6	0.6
		7	0.7
E	5.0	8	0.8
		9	0.9

Example:

A0 = 1.0m

B7 = 2.7m

ACPAIP67HDMICARLO225EA4