

MHDR Rugged HDMI

Product Specification S6089C Rev 1.4

Amphenol

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About Amphenol Commercial Products

Amphenol's commercial connector products are used in a variety of end user applications including networking, telecom, server & computer, storage & HDD, consumer electronics and entertainment, professional audio & Industrial & Military/Aerospace.

Related Products

MUSB/MUSBR OPTIONS:

MUSBR



MUSBR-A511-40
TYPE A, VERTICAL,
LOW PROFILE

MUSB



MUSB-D111-30
TYPE B, RIGHT ANGLE



MUSB-C111-30
TYPE A, STACKED,
RIGHT ANGLE



MHDR-A111-30
TYPE A, RIGHT ANGLE

MHDR-A511-30
TYPE A, VERTICAL

Overview

This Product Specification defines the general use and performance parameters for Amphenol's MHDR connector.

Availability: Right angle PCB tail version is presently available. This is also available on an interposer card with a right angle locking connector on the opposite side. A vertical PCB tail version along with protective dust covers are planned.

Usage

These connectors provide a High Definition Multimedia Interface for transmitting digital audiovisual signals. Receptacles will mate with any standard type A HDMI plug. Electrical performance complies with HDMI specification version 1.4a. Protection is provided for IP67 applications per IEC 60529.

Applications

Intended for use in applications such as:

- Portable computers
- Outdoor Audiovideo equipment
- Portable broadcast equipment
- Medical equipment
- Digital cameras/camcorders

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Related Products

MDBR



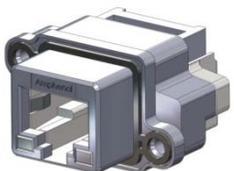
9 POSITION CONNECTOR SHOWN

MUSBK



MUSB-K152-30
SERIES MICRO-AB
RIGHT ANGLE, PCB TAIL

MRJR



MRJR-538X-01 SHOWN
RIGHT ANGLE, PCB TAIL,
8 POSITION RJ45

Connector Electrical Characteristics

Parameter	Type A
Current rating:	0.5A min per contact
Contact resistance:	10 mΩ max
Insulation resistance:	1000 MΩ min
DWV:	500V AC @ sea level
Impedance:	100Ω +/-15%
Total data rate:	10.2Gbit/s

Connector Mechanical Characteristics

Thermal Shock: 10 cycles @ -55° to +125° C
 Physical Shock: 50G for 11ms (3 cycles in 3 axes)
 Humidity: Per ANSI/EIA-364-31B
 Vibration: Per ANSI/EIA-364-28 Condition III

Process Characteristics

Recommended soldering process: wave soldering with peak temperature of 260°C for 10 seconds.
 Recommended Torque for #4-40 or M3 Panel Mount Screws: 0.45 to 0.65 Nm (4 – 5.75 in-lbs).
 Solder tails suitable for PCB thickness of 1.52mm (.062")
 Mating Cycles: 10,000 cycles

Material Requirements

MHDR connectors are RoHS compliant.

Unless otherwise specified, the materials for each component shall be:

- Contacts: Copper alloy with 30μ" (0.76μm) min gold over 50μ" (1.27μm) min nickel
- Housing: Engineering thermoplastic, UL94V-0 rated, black.
- Shell: Die cast zinc alloy with nickel plating

Operating temperature -55° to +85° C

Available Documents

Drawing Numbers:

P-MHDR-A111-X0
 P-MHDR-A311-X0
 P-MHDR-A311-M01

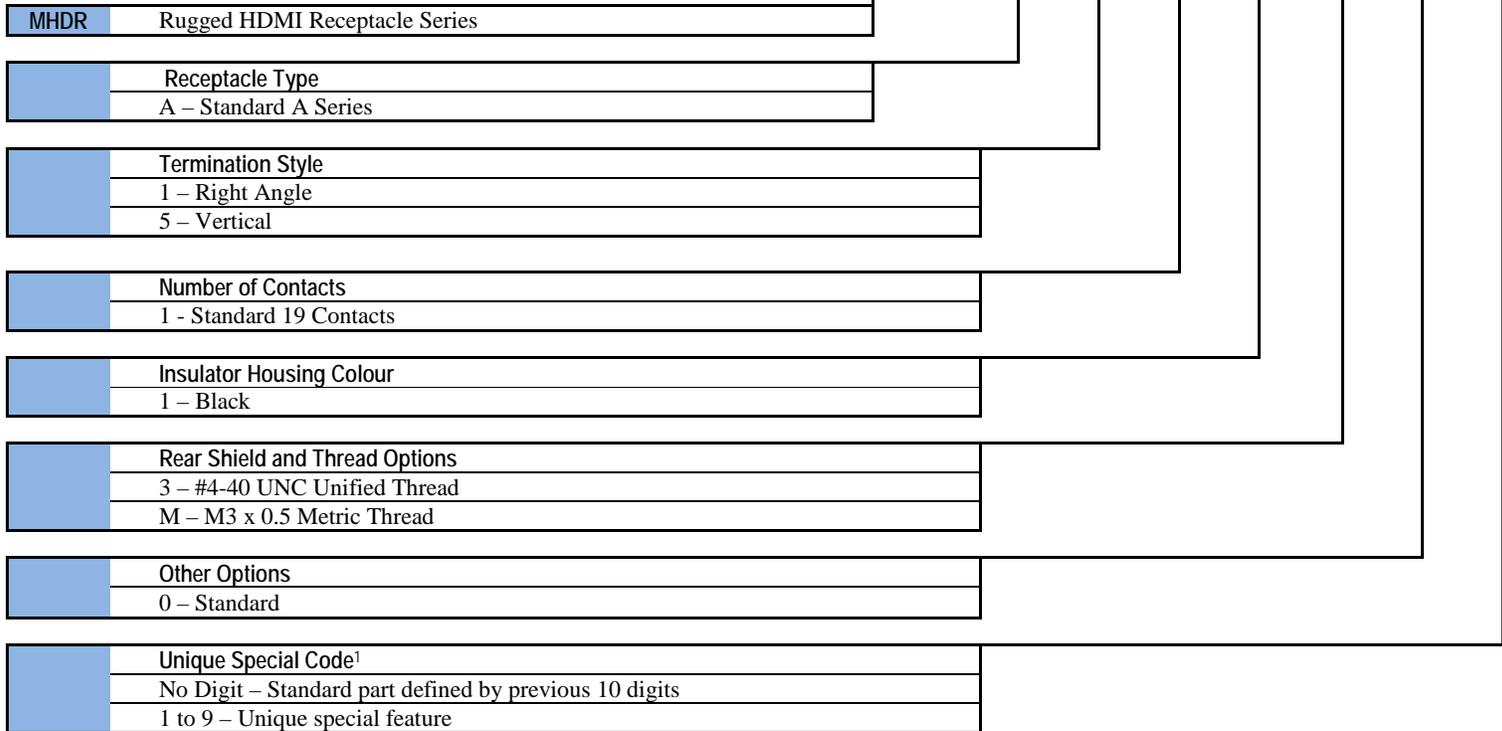
MHDR series rugged HDMI, Type A, Right Angle PCB Tail
 MHDR series rugged HDMI, Type A, on PCB with matching HDMI
 MHDR series rugged HDMI, Type A, on PCB with matching HDMI with locking tab.

Contact factory, authorized Amphenol representative or website www.amphenolcanada.com for additional configurations

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Product Numbering System

MHDR - A X 1 1 - X 0 X



- Notes:
- 1) Consult with Amphenol for additional termination styles, contact tail lengths, mounting styles, non-conductive gaskets or other special requirements.