

MHDR Rugged HDMI

Product Specification S6089C Rev 1.0

Amphenol

Now you're connected!

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

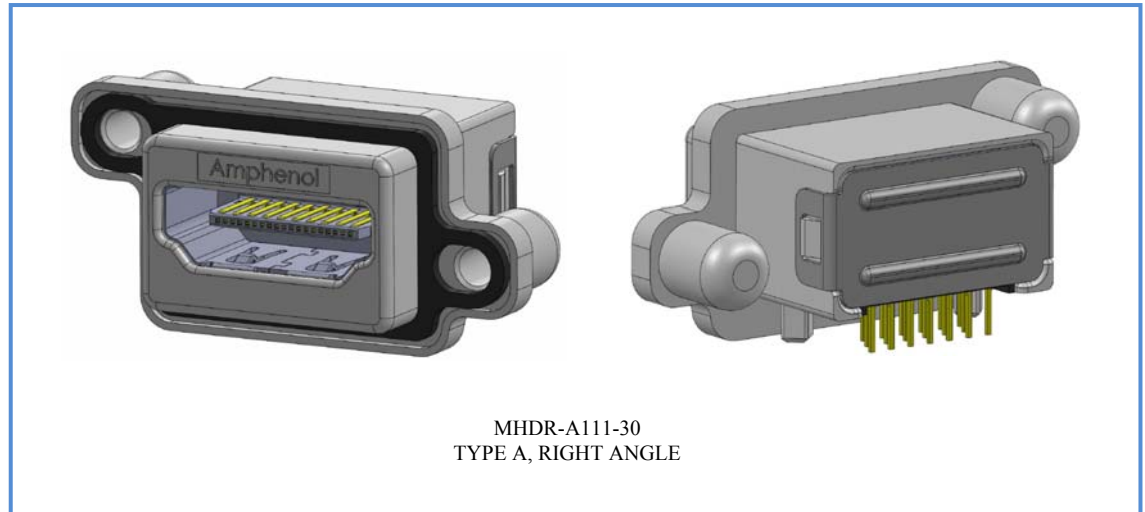
MUSB



MUSB-D111-30
TYPE B, RIGHT ANGLE



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



MHDR-A111-30
TYPE A, RIGHT ANGLE

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. 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.

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



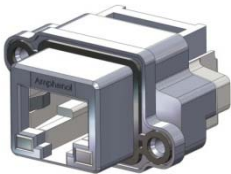
9 POSITION CONNECTOR SHOWN

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:	100 MΩ min
DWV:	500V AC @ sea level

Connector Mechanical Characteristics

Thermal Shock: 10 cycles @ -55° to +85° 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 -40° to +85° C

Available Documents

Drawing Numbers:

P-MHDR-A111-X0

MHDR series rugged HDMI, Type A, Right Angle PCB Tail

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