

MDB Rugged D-sub Connector

Product Specification S6016C Rev 1.1

Amphenol

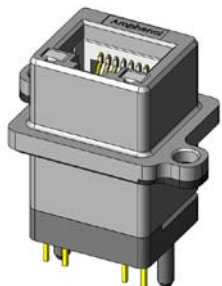
Now you're connected!

About Amphenol Commercial Products

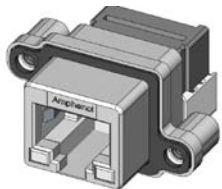
Amphenol's commercial connector products are used in a variety of end user applications including networking, telecom, server & computer, storage & HDD, consumer electronics and entertainment, professional audio & Industrial & Military/Aerospace.

Related Products

MRJ



MRJ-5480-01 SHOWN
VERTICAL, PCB TAIL,
8 POSITION RJ45

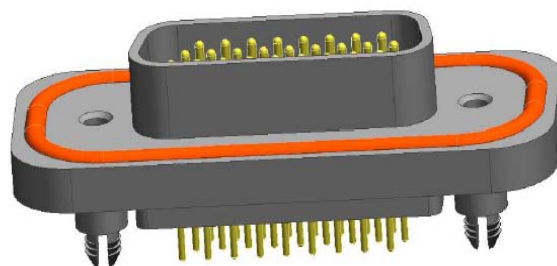


MRJ-5380-01 SHOWN
RIGHT ANGLE, PCB TAIL,
8 POSITION RJ45

MUSB



MUSB-C111-30 SHOWN
SERIES A, RIGHT ANGLE,
STACKED



P/N MDB-A26PE-860 SHOWN
26 POSITION HIGH DENSITY PIN,
VERTICAL PCB TAILS WITH
BOARDLOCK



P/N MDB-E09SE-860 SHOWN
9 POSITION SOCKET, VERTICAL
PCB TAILS WITH BOARDLOCK

Overview

This Product Specification defines the general use and performance parameters for Amphenol's MDB (86X) series of Rugged D-sub connectors.

Availability: 9 position standard density pin and socket connectors available, 26 position high density pin and socket connectors available. Termination options include vertical PCB tails and solder cups suitable for up to 20 AWG for the 9 position connectors or 22 AWG for the 26 position.

Usage

The connector system is designed to provide a standard D-sub interface for enclosures exposed to harsh environments. Protection is provided for IP67 applications per IEC 60529 specification. Protection is provided for the ingress of water when immersed to a 1.0m depth for a period of 30 minutes and the ingress of dust less than 75 microns under 2 kPa vacuum pressure. A sturdy die cast shell provides excellent strength and durability in the most demanding applications while a high temperature resistant plastic housing captures high quality gold plated screw machined copper alloy contacts.

Applications

Intended for use in applications such as:

- Outdoor equipment
- Portable devices
- Automation equipment
- Industrial and agricultural equipment

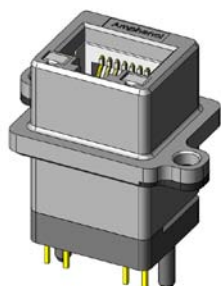
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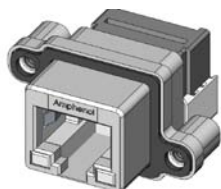
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MUSB-C111-30 SHOWN
SERIES A, RIGHT ANGLE,
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Connector Electrical Characteristics

Maximum current: 5A per contact for Std density, 3A per contact for higher density.

Temperature rise: Meets the UL requirement of 30° C ΔT

Maximum voltage: 200V DC or 125V AC per contact

Contact resistance: 20 m Ω max

Insulation Resistance: 5 G Ω at 200V DC for 60 seconds

DWV: 1500V minimum DC for 60 seconds

Connector Mechanical Characteristics

9 or 26 position D-sub interface

Durability: 500 mating cycles

Material Requirements

MDB connectors are RoHS compliant.

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

- Contacts
 - Base material – Copper alloy
 - Plating
 - Goldplating over 50 μ " (1.27 μ m) min Nickel as defined on product drawings.
- Housings: Black color, glass-reinforced, lead-free solder reflow process compatible thermoplastic, UL94V-0 rated
- Shell: Die cast Zinc alloy
 - Plating – 50 μ " (1.27 μ m) min Nickel
- Gasket: Silicone rubber

Operating temperature -40° to +105° C

Storage temperature -40° to +105° C

Process Characteristics

Connectors are RoHS compliant and can resist lead free wave soldering processes.

Available Documents

Drawing Numbers:

P-MDB-A26PE-860

P-MDB-A26SE-861

P-MDB-E09PM-860

P-MDB-E09SM-860

P-MDB-E09PE-860

P-MDB-E09SE-860

MDB Rugged D-Sub Connector, 26 Size High Density Pin, Vert PCB Tail, Boardlock

MDB Rugged D-Sub Connector, 26 Size High Density Skt, Vert PCB Tail, Boardlock

MDB Rugged D-Sub Connector, 9 Size Pin, Solder Cup Termination

MDB Rugged D-Sub Connector, 9 Size Socket, Solder Cup Termination

MDB Rugged D-Sub Connector, 9 Size Pin, Vert PCB Tail, Boardlock

MDB Rugged D-Sub Connector, 9 Size Socket, Vert PCB Tail, Boardlock

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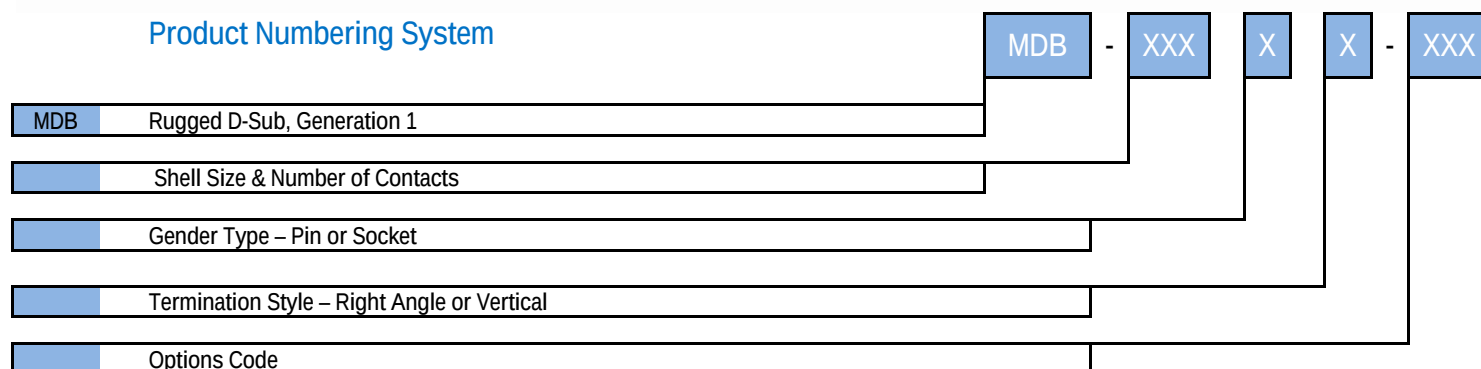
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Product Numbering System



Available Standard Part Numbers	
MDB-E09SA-700	9 size standard density, socket, right angle tails, all plastic shell, rear mount with jack sockets installed
MDB-E09PE-760	9 size standard density, pin, vertical PCB tails, high profile die cast shell, front mount with jacket sockets & dust cover
MDB-E09PE-765	9 size standard density, pin, vertical PCB tails, high profile die cast shell, front mount
MDB-E09SE-760	9 size standard density, socket, vertical PCB tails, high profile die cast shell, front mount with jack sockets & dust cover
MDB-E09SE-765	9 size standard density, socket, vertical PCB tails, high profile die cast shell, front mount
MDB-B25SE-765	25 size standard density, socket, vertical PCB tails, high profile die cast shell, front mount
MDB-E15PE-766	15 size, high density, pin, vertical PCB tails, high profile die cast
MDB-E09PE-860	9 size standard density, pin, vertical PCB tails, low profile die cast shell, rear mount
MDB-E09SE-860	9 size standard density, socket, vertical PCB tails, low profile die cast shell, rear mount
MDB-A26PE-860	26 size high density, pin, vertical PCB tails, low profile die cast shell, rear mount