

Harsh Dust Covers & Related Accessories

Amphenol

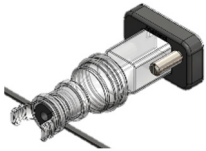
Product Specification S6160C Rev 1.0

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



MUSBR-AHD2-821XX
IP67 Protection for USB or RJ Plugs, Thumb Screw, Translucent Colour



MUSBR-AHD3-201XX
IP67 Protection for USB or HDMI Plugs, Cap Screw, Black Colour



MUSBR-BHD4-721XX
IP67 Protection for USB Mini, Micro, & Type-C Plugs, Cap Screw, Translucent Colour



MDBR-AHD1-211XX
IP67 Protection for A-Size D-Sub Connectors, Thumb Screw, Black Colour

Standard Dust Covers



MUSBR-2M5C-014BP Shown
Standard Dust Cover for USB Type-C

Heavy-Duty Dust Covers



MRJR-2586-23BP Shown
Heavy-Duty Dust Cover for RJ45 (MRJ/R)

Boots



MRJ-258E-12BP Shown
MRJ Series Boot for RJ Plug & Cable

Overview

This product specification defines the general use and performance parameters for Amphenol's accessory items including standard dust covers, heavy-duty dust covers, and boots. These accessory items provide protection for harsh environments. Amphenol offers a broad range of accessory items with varying degrees of ingress protection to ensure that the customer's needs, whatever they may be, are met. Available options include:

- Conductive & Non-Conductive Silicone rubber
- Black or Grey (only non-conductive) colours

*See the following pages for a complete summary of product offerings & available documents.

Usage

Amphenol's *dust covers* are designed to provide protection for enclosures by covering the port of panel-mounted connectors (in the unmated condition).

Amphenol's *boots* are designed to encompass and provide protection for the interface of mated connectors. For IP67 protection of mated connector assemblies, refer to product specification S6139C.

Applications

Intended for use in any application that requires ingress protection, examples include:

- Medical equipment
- Military vehicles, radios, computers
- Mobile communication systems
- Traffic control & monitoring systems

Materials

Amphenol accessories are RoHS compliant per EU directive 2011/65/EU and amendments.

- Boot: Silicone Rubber, Black & Translucent Options
- Standard Dust Covers:
 - Cover: Silicone Rubber, Black (Conductive or Non-Conductive) & Grey Options
 - Bushing: Brass, Nickel Plated
- Heavy-Duty Dust Covers:
 - Cover: Silicone Rubber, Black (Conductive or Non-Conductive) & Grey Options
 - Overmould: Engineering Thermoplastic, UL94V-0 rated, Black
 - Panel Bracket & Anchor Plate: Stainless Steel
 - Braided String Tether: High Strength Polymer, Black

Characteristics

	Standard Dust Covers	Heavy-Duty Dust Covers	Boots
Operating Temperature:	-40°C to +105°C	-40°C to +105°C	-20°C to +200°C
Thermal Shock:		-65°C to +125°C	
Tensile Strength:		> 90N (20lbf) ¹	
Durability:		100 Cycles	

¹Value shown is for tensile strength of tether only. Tensile strengths of covers vary.

Recommended Torques for Panel Mount Screws:

USB Mini, Micro, & Type-C:

0.23 to 0.34 Nm (2.00 to 3.00 in-lbs)

USB Type-A, USB Type-B, HDMI, D-Sub (MDB/R), RJ (MRJ/R):

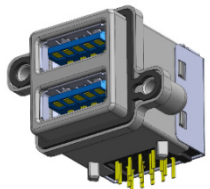
0.45 to 0.65 Nm (4.00 to 5.75 in-lbs)

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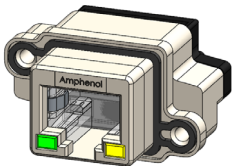
Related Products



MUSBR-3193-XX
Rugged USB Type A 3.0, Stacked, Right Angle



MHDR-A511-30
Rugged HDMI, Type-A, Vertical



MRJR-3461-0F
Rugged RJ45, 6-Position, Right Angle



MDBR-A3W3PX-XX0
Rugged 3W3 Combo Plug, termination, mounting, & filtering options available. Socket connector also available.

Standard Dust Covers

Most standard dust covers are available in black or grey non-conductive rubber and black conductive rubber. Refer to respective sales drawing for a complete list of available options.

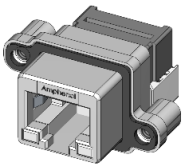
 <p>MDB-227-093-205BP Standard E-Size D-Sub (MDB / MDBR) Dust Cover</p>	 <p>MHDR-2A11-0X4BP Standard HDMI Dust Cover</p>
 <p>MUSB-2A111-0X4BP Standard USB Type-A Connector Dust Cover</p>	 <p>MUSB-2A111-027BP Standard USB Type-A Connector Dust Cover, Without Rubber Arm</p>
 <p>MUSB-2E151-0X5BP Standard USB Mini Dust Cover</p>	 <p>MUSB-2D11-0X4BP Standard USB Type-B Dust Cover</p>
 <p>MUSBR-2M5C-0X4BP Standard USB Type-C Dust Cover</p>	 <p>MRJ-2586-X0BP Standard RJ45 (MRJ / MRJR) Dust Cover, Inner Retention Feature Only</p>  <p>MRJ-2586-0XBP Standard RJ45 (MRJ / MRJR) Dust Cover, Outer Retention Feature Only</p>  <p>MRJ-2586-X2BP Standard RJ45 (MRJ / MRJR) Dust Cover, Inner & Outer Retention Features</p>

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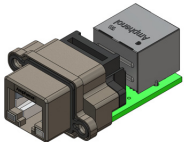
Related Products



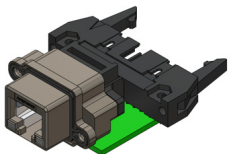
MRJ-5480-01
Rugged RJ45,
8 Position, Vertical



MUSBR-A511-40
Rugged USB Type-A
Low-Profile, Vertical



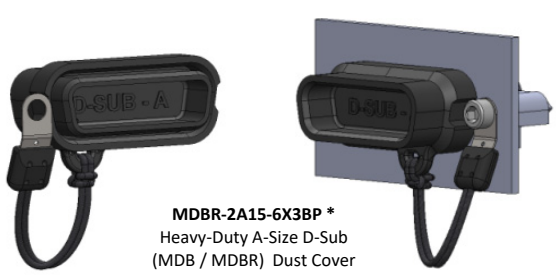
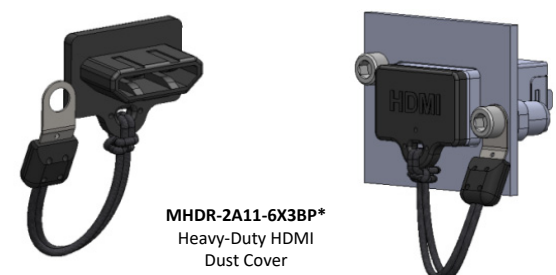



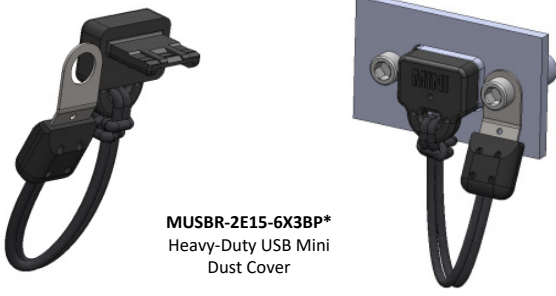
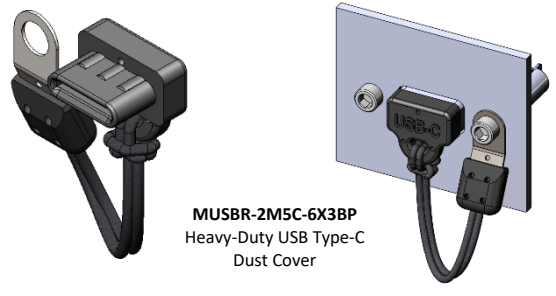
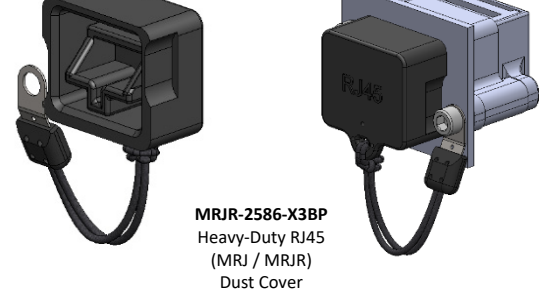
MRJR-8780-01
Rugged CAT5e RJ45, 8
Position, Right Angle on
PCB with Standard RJ



MRJ/MRJR Series Options
Series available on PCB
with matching RJ45, cable
header, or terminal block.

Heavy-Duty Dust Covers

All heavy-duty dust covers are available in black or grey non-conductive rubber, and black conductive rubber.

 <p>MDBR-2A15-6X3BP * Heavy-Duty A-Size D-Sub (MDB / MDBR) Dust Cover</p>	 <p>MHDR-2A11-6X3BP* Heavy-Duty HDMI Dust Cover</p>
 <p>MUSB-2D11-6X3BP* Heavy-Duty USB Type-B Dust Cover</p>	 <p>MUSB-2K15-6X3BP Heavy-Duty USB Micro Dust Cover</p>
 <p>MUSBR-2A11-6X3BP* Heavy-Duty USB Type A Connector Dust Cover</p>	 <p>MUSBR-2E15-6X3BP* Heavy-Duty USB Mini Dust Cover</p>
 <p>MUSBR-2M5C-6X3BP Heavy-Duty USB Type-C Dust Cover</p>	 <p>MRJR-2586-X3BP Heavy-Duty RJ45 (MRJ / MRJR) Dust Cover</p>

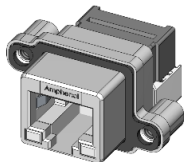
*Under development, consult with Amphenol if interested.

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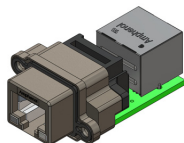
Related Products



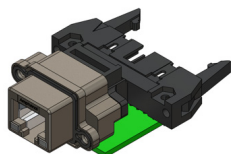
MRJ-5480-01
Rugged RJ45,
8 Position, Vertical



MUSBR-A511-40
Rugged USB Type-A
Low-Profile, Vertical



MRJR-8780-01
Rugged CAT5e RJ45, 8
Position, Right Angle on
PCB with Standard RJ



MRJ/MRJR Series Options
Series available on PCB
with matching RJ45, cable
header, or terminal block.

Available Documents

Standard Dust Covers

- P-MDB-227-093-205BP: MDB Series, Dust Cover for D-Sub Size-E Connectors
- P-MHDR-2A11-0X4BP: MHDR Series, Dust Cover for HDMI Receptacles
- P-MUSB-2A111-0X4BP: MUSB Series, Dust Cover for USB Type-A Receptacles
- P-MUSB-2A111-027BP: MUSB Series, Dust Cover for USB Type-A Receptacles, Special Length
- P-MUSB-2D11-0X4BP: MUSB Series, Dust Cover for USB Type-B Receptacles
- P-MUSB-2E151-0X5BP: MUSB Series, Dust Cover for USB Mini Receptacles
- P-MUSB-2K15-0X5BP: MUSB Series, Dust Cover for USB Micro Receptacles
- P-MUSBR-2M5C-0X4BP: MUSBR Series, Dust Cover for USB Type-C Receptacles
- P-MRJ-2586-0XBP: MRJ Series, Dust Cover for RJ45 Receptacles, External Style
- P-MRJ-2586-X0BP: MRJ Series, Dust Cover for RJ45 Receptacles, Internal Style
- P-MRJ-2586-X2BP: MRJ Series, Dust Cover for RJ45 Receptacles, Internal / External Hybrid

Heavy-Duty Dust Covers

- P-MDBR-2A15-6X3BP: MDBR Series, Heavy-Duty Dust Cover for D-Sub Size-A Connectors
- P-MHDR-2A11-6X3BP: MHDR Series, Heavy-Duty Dust Cover for HDMI Receptacles
- P-MUSB-2D11-6X3BP: MUSB Series, Heavy-Duty Dust Cover for USB Type-B Receptacles
- P-MUSB-2K15-6X3BP: MUSB Series, Heavy-Duty Dust Cover for USB Micro Receptacles
- P-MUSBR-2A11-6X3BP: MUSBR Series, Heavy-Duty Dust Cover for USB Type-A Receptacles
- P-MUSBR-2E15-6X3BP: MUSBR Series, Heavy-Duty Dust Cover for USB Mini Receptacles
- P-MUSBR-2M5C-6X3BP: MUSBR Series, Heavy-Duty Dust Cover for USB Type-C Receptacles
- P-MRJR-2586-X3BP: MRJR Series, Heavy-Duty Dust Cover for RJ45 Receptacles

Boots

- P-MRJ-258E-1XBP: MRJ Series, Boot for RJ Plug & Cable