

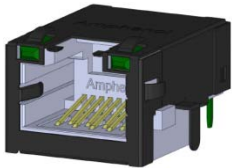
Now you're connected!

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

RJE72/71

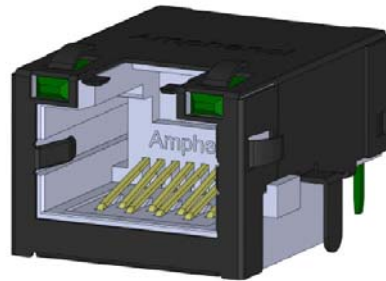


P/N RJE72/71-188-1XXX
SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDs
CAT5e / CAT6

RJE58/59/60



P/N RJE58/59/60-188-5XX1
SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDs
CAT5e / CAT6 / CAT6A



P/N RJE7B-188-1XXX SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDs
CAT6A

Overview

This product specification defines the general use and performance parameters for Amphenol's RJE7B series of modular jacks.

Availability: Single port connectors available with a wide variety of LED and shielding options.

Usage

The RJE7B series of modular jacks meet CAT6A performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols and 10G Ethernet over lengths of up to 100m. Shielding available for increased EMI performance and LEDs for Link Activity and Network Speed verification.

Applications

Intended for use in applications such as:

Networking & Telecom

- Wireless (WiMAX)
- Network servers
- Hubs, routers, switches

Office & Home Equipment

- PC's, Laptops, Copiers/Printers
- Telephones, modems
- Surge Protectors
- ATMs, Vending Machines

Consumer Goods

- Security Systems
- Set Top Boxes
- Video Game Systems

Miscellaneous

- Multi-Media Equipment
- Industrial Equipment
- POS Terminals

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Related Products

RJE1A/1B/1C



P/N RJE1A/1B/1C-188-5XX1
SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDs
CAT5e / CAT6 / CAT6A

RJE45/4A



P/N RJE45/4A-188-1XX1
SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDs
CAT6 / CAT6A

Electrical Characteristics

Contact resistance:	20 mΩ max.
Insulation resistance:	500 MΩ minimum at 500V DC for 2 minutes max.
Current rating:	1.25 Amps
Voltage rating:	125 Volts AC
DWV	1000 VAC, 60 Hz. 1 min.
LED forward DC current:	20mA typical
LED forward Voltage:	1.9 Volts max. @ 2mA (for single colors) 2.6 Volts max. @ 20mA (for Bi-colors)
LED reverse voltage:	5 Volts minimum
LED light intensity:	0.4 to 1.5 mcd @ 2mA (for single colors) 0.5 mcd min. @ 2mA (for Bi-colors)
LED wave length:	Yellow: 587± 7 nm measured @ 20mA Green: 565± 6 nm measured @ 20mA Red: 625± 5 nm measured @ 20mA

Mechanical Characteristics

Mating connector insertion force:	5.0 lbs. Maximum.
Mating connector pull retention force:	20 lbs Minimum.
Durability:	750 mating & unmating cycles
Operating temperature:	-55° C to +85° C
Recommended soldering temperature:	IR reflow peaked at 260° C for 5 to 8 seconds.

Note: IR reflow is not recommended for connectors with LEDs.

Material Requirements

RJE7B connectors are RoHS compliant.

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

Insulator:

- High Temp thermoplastic. Complies with UL 94V-0, Black color

Contacts:

- Phosphor Bronze hard temper with gold thickness options (6μ", 15μ", 30μ", 50μ") over 50μ" minimum Nickel on contact mating area.
- 100μ" minimum matte tin plating on solder tails

Shield:

- Stainless steel with tin dipped tails

LED:

- Tin plating on LED tails

Available Documents

Drawing Numbers:

P-RJE7B-188-1XXX
P-RJE7B-188-1X0X

Single port Cat6A Modular Jack, 8 Position, with LEDs and Shield. Ultra low profile
Single port Cat6A Modular Jack, 8 Position, Non LEDs and Shield. Ultra low profile

Contact factory or Authorized Amphenol representative for additional configurations.