

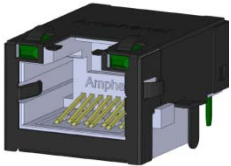
Now you're connected!

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.

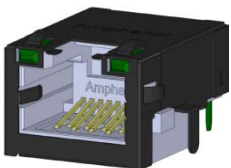
Related Products

RJE72

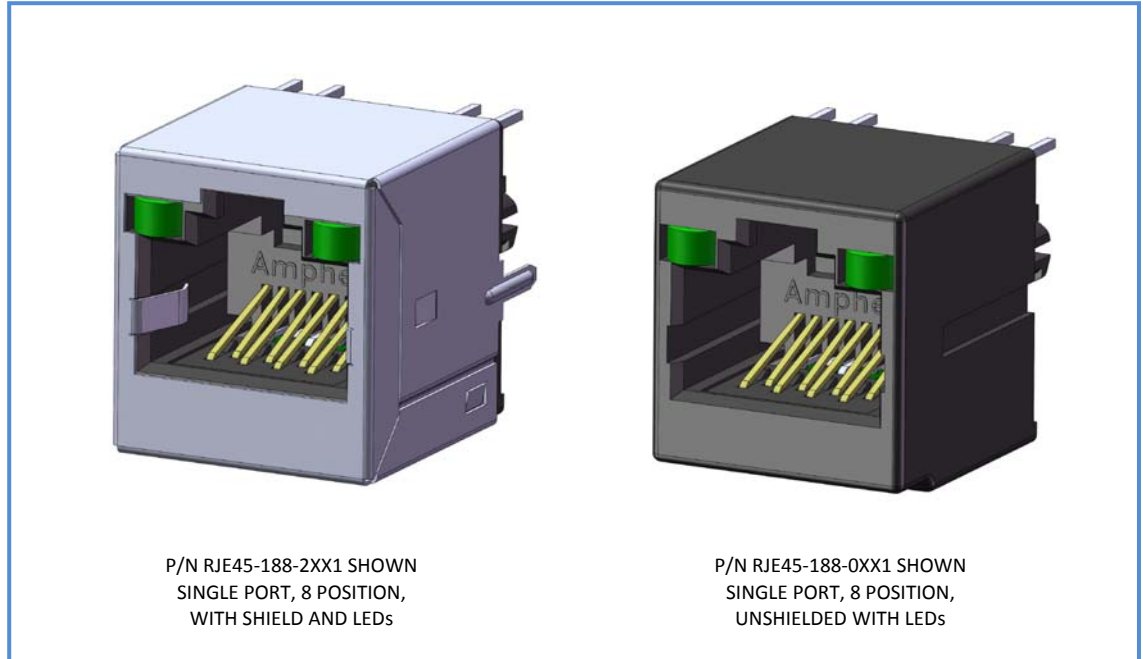


P/N RJE72-188-1153 SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDS
CAT5e

RJE71



P/N RJE71-188-1452 SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDS
CAT6



P/N RJE45-188-2XX1 SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDS

P/N RJE45-188-0XX1 SHOWN
SINGLE PORT, 8 POSITION,
UNSHIELDED WITH LEDS

Overview

This product specification defines the general use and performance parameters for Amphenol's RJE45 series of modular jacks.

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

Usage

The RJE45 series of modular jacks meet CAT6 performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols and 10Gig links in applications up to 50m. 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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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
LED reverse voltage:	5 Volts minimum
LED light intensity:	0.4 to 1.5 mcd @ 2mA
LED wave length:	Yellow: 587± 7 nm measured @ 20mA Green: 565± 6 nm measured @ 20mA Red: 625± 5 nm measured @ 20mA

Related Products

RJE58



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

RJE59



P/N RJE59-188-5XX1 SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDs
CAT6

Frequency MHz	Near-end Crosstalk dB Min.	Return Loss dB Min.	Attenuation dB Max.
1.0	75.0	30.0	0.1
4.0	75.0	30.0	0.1
8.0	75.0	30.0	0.1
10.0	74.0	30.0	0.1
16.0	69.9	30.0	0.1
20.0	68.0	30.0	0.1
25.0	66.0	30.0	0.1
31.25	64.1	30.0	0.11
62.5	58.1	28.1	0.16
100.0	54.0	24.0	0.20
200.0	48.0	18.0	0.28
250.0	46.0	16.0	0.32

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:
Wave soldering peaked at 260° C for 5 seconds Maximum or lead free reflow soldering up to 260° C for 10 seconds for one cycle with an LED defect rate of no more than 1000ppm.
(Multiple exposures are not recommended)

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Related Products

RJE1A



P/N RJE1A-188-5XX1 SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDS
CAT5e

RJE60



P/N RJE60-188-5XX1 SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDS
CAT6

Material Requirements

RJE45 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 (6 μ "", 15 μ "", 30 μ "", 50 μ "") over 50 μ " minimum Nickel on contact mating area.
- 100 μ " 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-RJE45-188-0X01 | 8P8C, Non-LED, Unshielded, and Tray packaging. |
| ■ P-RJE45-188-0XX1 | 8P8C, With LED, Unshielded, and Tray packaging. |
| ■ P-RJE45-188-0X02 | 8P8C, Non-LED, Unshielded, Tray packaging,
With Housing side flange. |
| ■ P-RJE45-188-0XX2 | 8P8C, with LED and Unshielded, Tray packaging.
With Housing side flange. |
| ■ P-RJE45-188-1X01 | 8P8C, Non-LED, Shielded, and Tray packaging. |
| ■ P-RJE45-188-1XX1 | 8P8C, With LED, Shielded, and Tray packaging. |
| ■ P-RJE45-188-2XX1 | 8P8C, With LED, Shielded but no side tabs, Tray packaging. |
| ■ P-RJE45-188-1X01-T | 8P8C, Non-LED, Shielded, and Tape Reel packaging. |
| ■ P-RJE45-188-1XX1-T | 8P8C, With LED, Shielded, and Tape Reel packaging. |
| ■ P-RJE45-188-1XX2-T | 8P8C, With LED, Shielded, and Tape Reel packaging.
With Housing side flange. |
| ■ P-RJE45-188-2X01-T | 8P8C, Non-LED, Shielded but no side tabs, Tape Reel packaging. |
| ■ P-RJE45-188-2XX1-T | 8P8C, With LED, Shielded but no side tabs, Tape Reel packaging. |
| ■ P-RJE45-188-2XX2-T | 8P8C, With LED, Shielded but no side tabs, Tape Reel packaging.
With Housing side flange. |

Contact factory or Authorized Amphenol representative for additional configurations.