

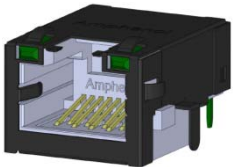
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About Amphenol Commercial Products

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.

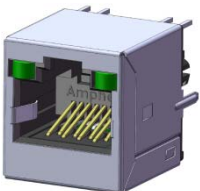
Related Products

RJE72



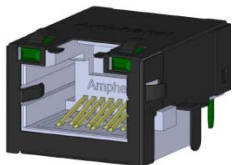
P/N RJE72-188-11353 SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDS

RJE45

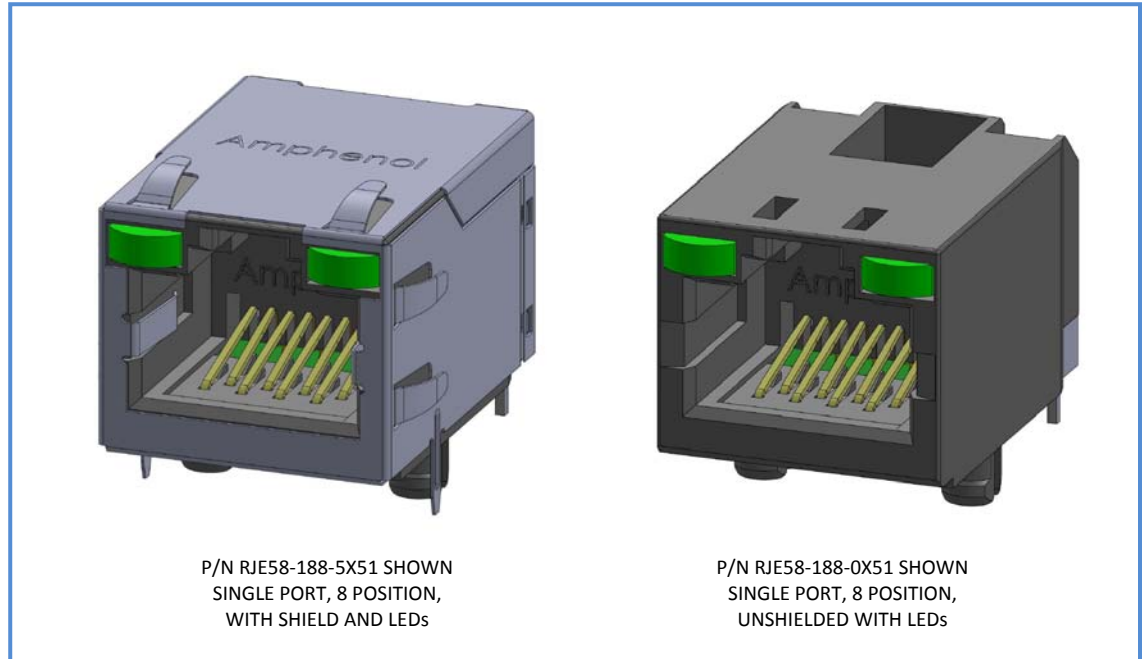


P/N RJE45-X385-01 SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDS

RJE71



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



P/N RJE58-188-5X51 SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDS

P/N RJE58-188-0X51 SHOWN
SINGLE PORT, 8 POSITION,
UNSHIELDED WITH LEDS

Overview

This product specification defines the general use and performance parameters for Amphenol's RJE58 series of modular jacks.

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

Usage

The RJE58 series of modular jacks meet CAT5e performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols as well as 2.5GBASE-T per IEEE 802.3bz. Shielding available for improved 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

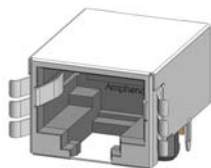
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Related Products

RJULE



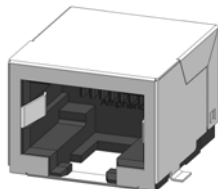
P/N RJULE-4X182-01 SHOWN
SINGLE PORT REGULAR MOUNT,
STANDARD SHIELD WITH SMT

FRJAE



P/N FRJAE-418 SHOWN
SINGLE PORT, 8 POSITION,
WITH FERRITE FILTER AND
SHIELD (FRONT TABS)

RJLSE



P/N RJLSE-4X181-01 SHOWN
SINGLE PORT, 8 POSITION,
WITH SURFACE MOUNT AND
SHIELD

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

Frequency	Near-end Crosstalk	Return Loss	Attenuation
MHz	dB Min.	dB Min.	dB Max.
1.0	65	30	0.1
4.0	65	30	0.1
8.0	64.9	30	0.1
10.0	63	30	0.1
16.0	58.9	30	0.2
20.0	57	30	0.2
25.0	55	30	0.2
31.25	53.1	30	0.2
62.5	47.1	24.1	0.3
100.0	43	20	0.4

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 for one cycle with an LED defect rate of no more than 1000ppm.
(Multiple exposures are not recommended)

Note: IR reflow compatible versions also available. Consult factory

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Amphenol

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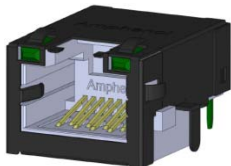
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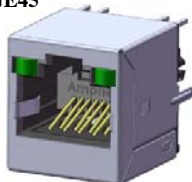
Related Products

RJE72



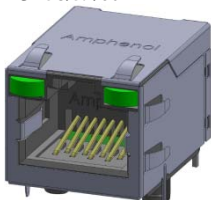
P/N RJE72-188-11353 SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDs

RJE45



P/N RJE45-X385-01 SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDs

RJE58/59/60



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

Material Requirements

RJE58 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-RJE58-188-5XX1
P-RJE58-188-6XX1
P-RJE58-188-5X01
P-RJE58-188-6X01
P-RJE58-188-0XX1
P-RJE58-188-0X01

Single port Cat 5e Modular Jack, 8 Position, with LEDs and Shield with EMI tabs
Single port Cat 5e Modular Jack, 8 Position, with LEDs and Shield without EMI tabs
Single port Cat 5e Modular Jack, 8 Position, with Shield with EMI tabs, without LEDs
Single port Cat 5e Modular Jack, 8 Position, with Shield with EMI tabs, without LEDs
Single port Cat 5e Modular Jack, 8 Position, with LEDs and unshield
Single port Cat 5e Modular Jack, 8 Position, unshield and without LEDs

Contact factory or Authorized Amphenol representative for additional configurations.