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.
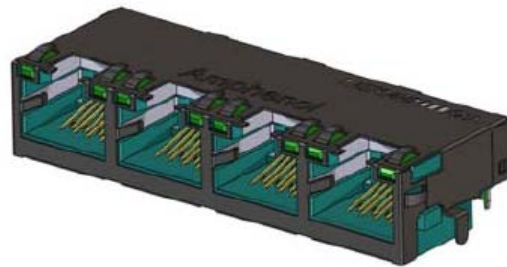
Related Products

RJE58

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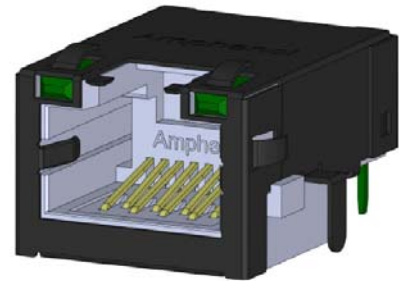WITH SHIELD AND LEDs
CAT5e

RJE59

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

P/N RJE71-488-1XXX SHOWN
4 PORT, 8 POSITION,
WITH SHIELD AND LEDs

P/N RJE71-188-1XXX SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDs

Overview

This product specification defines the general use and performance parameters for Amphenol's RJE71 series of modular jacks.

Availability: Single and 1x4 port connectors available with a wide variety of LED and shielding options.

Usage

The RJE71 series of modular jacks meet CAT6 performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols and 10G Ethernet over lengths of 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

Amphenol

Now you're connected!

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
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

RJE71 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-RJE71-188-1XXX	Single port Cat6 Modular Jack, 8 Position, with LEDs and Shield. Ultra low profile
P-RJE71-488-1XXX	Four Port Cat6 Modular Jack, 8 Position, with LEDs and Shield. Ultra low profile

Contact factory or Authorized Amphenol representative for additional configurations.

Amphenol