

# RJE48

## Product Specification S6079C Rev 1.1

Amphenol

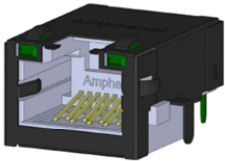
*Now you're connected!*

### 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.

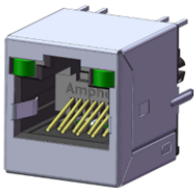
### Related Products

#### RJE72



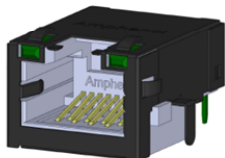
P/N RJE72-188-1153 SHOWN  
SINGLE PORT, 8 POSITION,  
WITH SHIELD AND LEDs

#### RJE45

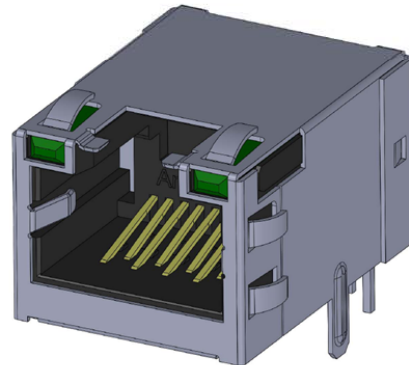


P/N RJE45-X385-01 SHOWN  
SINGLE PORT, 8 POSITION,  
WITH SHIELD AND LEDs

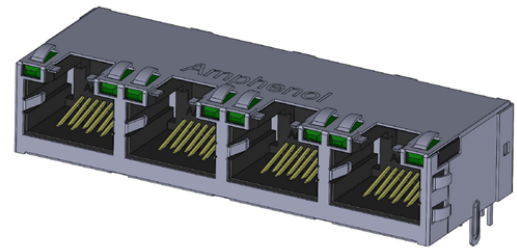
#### RJE71



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



P/N RJE48-188-1XX1 SHOWN  
SINGLE PORT, 8 POSITION,  
WITH SHIELD AND LEDs



P/N RJE48-488-1XX1 SHOWN  
4 PORT, 8 POSITION,  
SHIELDED WITH LEDs

### Overview

This product specification defines the general use and performance parameters for Amphenol's RJE48 series of modular jacks.

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

### Usage

The RJE48 series of modular jacks meet CAT5e performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols. 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

### 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

## 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 MHz	Near-end Crosstalk dB Min.	Return Loss dB Min.	Attenuation 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.

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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  
CAT6A

## Material Requirements

RJE48 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 $\mu$ "", 15 $\mu$ "", 30 $\mu$ "", 50 $\mu$ "") over 50 $\mu$ " minimum Nickel on contact mating area.
- 100 $\mu$ " 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-RJE48-188-1XX1

Single port Cat 5E Modular Jack, 8 Position, with LEDs and Shield.

P-RJE48-488-1XX1

Four port Cat 5E Modular Jack, 8 Position, with LEDs and Shield.

Contact factory or Authorized Amphenol representative for additional configurations.