RJE88

Product Specification S6090C Rev 1.0

Amphenol

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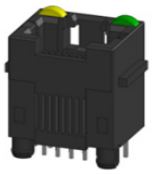
About Amphenol Commercial Products

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.

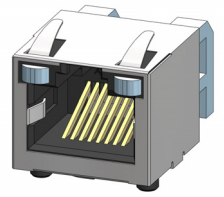
Related Products

RJHSE



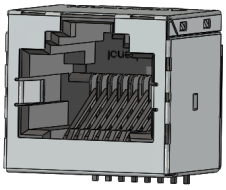
P/N RJHSE-3081 SHOWN
SINGLE PORT, 8 POSITION,
WITHOUT SHIELD, WITH LEDs

RJSSE

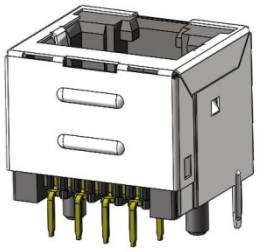


P/N RJSSE-5081 SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LIGHT PIPE

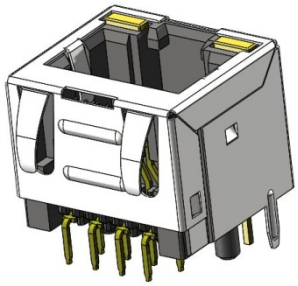
RJE23



P/N RE23-188-2X10 SHOWN
SINGLE PORT, 8 POSITION, SMT,
TOP ENTRY, WITH SHIELD



P/N RJE88-188-1X01 SHOWN
SINGLE PORT VERTICAL MOUNT,
SHIELDED WITHOUT TABS,
WITHOUT LEDs



P/N RJE88-188-1XX1 SHOWN
SINGLE PORT VERTICAL MOUNT,
WITH SHIELD, WITH LEDs

Overview

This product specification defines the general use and performance parameters for Amphenol's RJE88 series of inverted modular jacks.

Availability: Single port, vertical mount connectors with a wide variety of LED and shielding options.

Usage

The RJE88 inverted modular jacks with superior EMI performance supports 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, Copiers/Printers
- 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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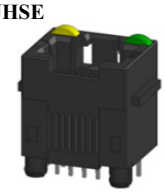
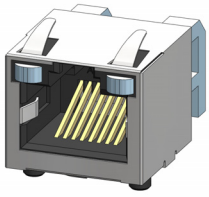
RJHSE



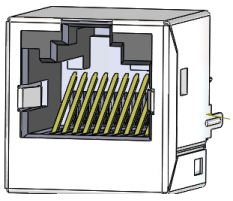
P/N RJHSE-3081 SHOWN
SINGLE PORT, 8 POSITION,
WITHOUT SHIELD, WITH LEDs

RJSSE



P/N RJSSE-5081 SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LIGHT PIPE

RJE74



P/N RJE74-1AA-1411 SHOWN
SINGLE PORT, 10 POSITION,
WITH SHIELD

Electrical Characteristics

Contact resistance:	20 mΩ max.
Insulation resistance:	500 MΩ minimum at 500V DC for 2 minutes max.
Current rating:	1.5 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
Recommended soldering temperature: Wave soldering peaked at 260° C for 5 seconds maximum.
Connectors without LED's are suitable for IR Reflow

Operating temperature: -55° C to +85° C

Material Requirements

RJE88 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 soldering tail

Shield:

- Stainless Steel with tin dipped tails

LED:

- Tin plating on LED tails

Available Documents

Drawing Numbers:

P-RJE88-188-1XXX 8 Position Modular Jack, optional LEDs and Shielding, single port version
Contact factory or Authorized Amphenol representative for additional configurations

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