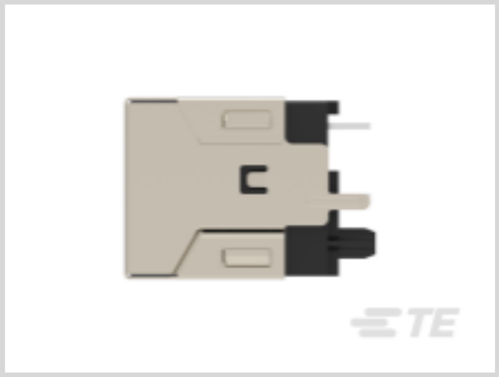
# 2501552-9 ✓ ACTIVE

TE Internal #: 2501552-9

RJ45 Connector, Single Port, 1 x 1, Standard Connector Contact Density, Jack, Shielded, Cat 5, 8 Position, Standard Profile, Through Hole - Solder

View on TE.com >

Connectors > Modular Jacks & Plugs > RJ45 Connectors > Industrial RJ45 modular jacks: 10/100 Mbps and 1 Gbps, THT reflow solderable


Modular Jack & Plug Interface Type: **RJ45**

Port Configuration: **Single Port**

Port Matrix Configuration: **1 x 1**

Modular Jacks & Plugs Products: **RJ Type Jacks & Plugs**

Connector Contact Density: **Standard**

All Industrial RJ45 modular jacks: 10/100 Mbps and 1 Gbps, THT reflow solderable (36)

## Features

### Product Type Features

| | |
|---|---|
| Connector Product Type | Connector Assembly |
| Modular Jack & Plug Interface Type | RJ45 |
| Modular Jacks & Plugs Products | RJ Type Jacks & Plugs |
| Modular Connector Style | Jack |
| Grounding Options | PCB Ground |
| Connector & Contact Terminates To | Printed Circuit Board |

### Configuration Features

| | |
|---|---|
| Number of PCB Ground Tabs | 2 |
| Number of Panel Ground Tabs | 0 |
| Port Configuration | Single Port |
| Port Matrix Configuration | 1 x 1 |
| Connector Contact Density | Standard |
| Number of Positions | 8 |

| | |
|---|---|
| Number of Loaded Positions | 8 |
| PCB Mount Orientation | Vertical |

## Signal Characteristics

| | |
|---|---|
| Data Rate | 10 Mb/s, 100 Mb/s |

## Body Features

| | |
|---|---|
| LED Color (Top Left) | Bicolor Yellow/Green |
| PCB Retention Feature Material | LCP |
| LED Color (Bottom Left) | None |
| LED Color (Top Right) | Bicolor Yellow/Green |
| Insulator Material | LCP |
| LED Color (Bottom Right) | None |
| Shield Plating Material | Nickel |
| Shield Material | Copper Alloy |
| Connector Profile | Standard |

## Contact Features

| | |
|---|---|
| PCB Contact Termination Area Plating Material Finish | Matte |
| Contact Underplating Material | Nickel |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Current Rating (Max) | 1.5 A |
| Contact Mating Area Plating Material | Gold |
| Contact Base Material | Phosphor Bronze |
| Contact Mating Area Plating Material Thickness | .76 µm[30 µin] |

## Termination Features

| | |
|---|---|
| Termination Method to PCB | Through Hole - Solder |
| Termination Post & Tail Length | 2.54 mm[.1 in] |

## Mechanical Attachment

| | |
|---|---|
| PCB Mount Retention Type | Boardlock |
| Connector Mounting Type | Board Mount |

## Housing Features

| | |
|---|---|
| Mating Entry Location | Top |
| Housing Color | Black |
| Housing Material | LCP (Liquid Crystal Polymer) |

## Dimensions

| | |
|---|---|
| Connector Height | 15.75 mm[.62 in] |

## Usage Conditions

| | |
|---|---|
| Operating Temperature Range | -40 – 85 °C[-40 – 185 °F] |

## Operation/Application

| | |
|---|---|
| Indicator Type | LED |
| Shielded | Yes |

## Industry Standards

| | |
|---|---|
| UL Flammability Rating | UL 94V-0 |
| Performance Category | Cat 5 |

## Packaging Features

| | |
|---|---|
| Packaging Method | Tray |

## Product Compliance

For compliance documentation, visit the product page on TE.com>

| | |
|---|---|
| EU RoHS Directive 2011/65/EU | Compliant |
| EU ELV Directive 2000/53/EC | Not Yet Reviewed |
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2024 (241)<br>Candidate List Declared Against: JUNE 2024 (241)<br>Does not contain REACH SVHC |
| Halogen Content | Not Low Halogen - contains Br or Cl > 900 ppm. |
| Solder Process Capability | Not reviewed for solder process capability |

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked.Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles'(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

## Compatible Parts

TE Part # 2120892-1
RJ45 CONNECTOR CAT6A, IP20 PLUG

TE Part # 1-2300160-1
CA IND RJ45STR 8POS

TE Part # 2383216-1
RJ45 FIELD INSTALLABLE CABLE CONN.

TE Part # 2383217-1
RJ45 FIELD INSTALLABLE CABLE CONN. 90

## Documents

### Product Drawings

RJ45 JACK THR 10/100 VERT. LED 1X1

English

### CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2501552-9_1.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2501552-9_1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2501552-9_1.3d_stp.zip

English

### Product Specifications

Application Specification

English