



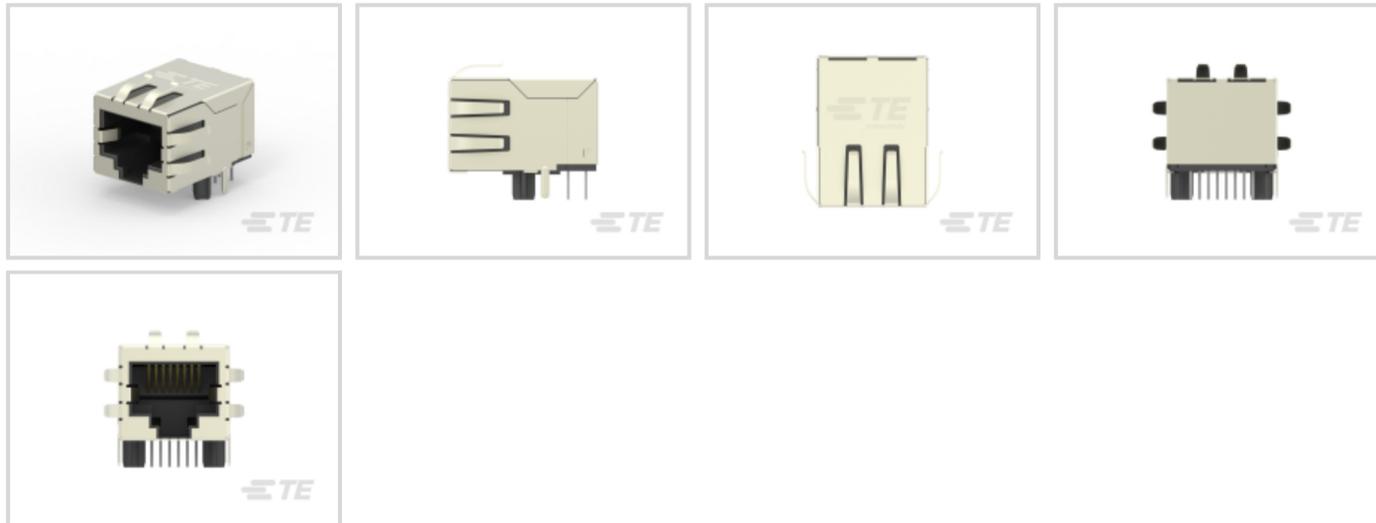
Industrial RJ45 Mag Jack

TE Internal #: 2301994-4

RJ45 Connectors, RJ45 with Integrated Magnetics, Single Port, 1 x 1, RJ Type Jacks & Plugs, Industrial RJ45 Mag Jack

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Connectors > Modular Jacks & Plugs > RJ45 Connectors



Modular Jack & Plug Interface Type: **RJ45 with Integrated Magnetics**

Port Configuration: **Single Port**

Port Matrix Configuration: **1 x 1**

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

Connector Contact Density: **Standard**

Features

Product Type Features

| | |
|------------------------------------|--------------------------------|
| Modular Jack & Plug Interface Type | RJ45 with Integrated Magnetics |
| Modular Jacks & Plugs Products | RJ Type Jacks & Plugs |
| Modular Connector Style | Jack |
| Grounding Options | PCB and Panel Ground |
| Connector & Contact Terminates To | Printed Circuit Board |

Configuration Features

| | |
|-----------------------------|--------------|
| Panel Ground Location | Top and Side |
| Number of Panel Ground Tabs | 6 |
| Number of PCB Ground Tabs | 2 |
| Status Indicator Type | None |
| 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 | Right Angle |
|-----------------------|-------------|

Signal Characteristics

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

Body Features

| | |
|----------------------|------|
| LED Color (Top Left) | None |
|----------------------|------|

| | |
|--------------------------------|-----|
| PCB Retention Feature Material | LCP |
|--------------------------------|-----|

| | |
|-----------------------|------|
| LED Color (Top Right) | None |
|-----------------------|------|

| | |
|--------------------|-----|
| Insulator Material | LCP |
|--------------------|-----|

| | |
|-----------------------|-------|
| Shield Plating Finish | Matte |
|-----------------------|-------|

| | |
|-------------------------|------------------|
| PCB Ground Tab Location | 3.05 mm [.12 in] |
|-------------------------|------------------|

| | |
|-------------------------|------|
| LED Color (Bottom Left) | None |
|-------------------------|------|

| | |
|--------------------------|------|
| LED Color (Bottom Right) | None |
|--------------------------|------|

| | |
|-------------------------|--------|
| Shield Plating Material | Nickel |
|-------------------------|--------|

| | |
|-----------------|-------|
| Shield Material | Brass |
|-----------------|-------|

| | |
|--------------------------------|-----------------------|
| Modular Jack Latch Orientation | Standard - Latch Down |
|--------------------------------|-----------------------|

| | |
|-------------------|----------|
| 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 Mating Area Plating Material | Gold |
|--------------------------------------|------|

| | |
|-----------------------|--------------|
| Contact Base Material | Copper Alloy |
|-----------------------|--------------|

| | |
|--|--|
| Contact Mating Area Plating Material Thickness | .76 μm [30 μin] |
|--|--|

Termination Features

| | |
|---|-----------------------|
| Termination Method to Printed Circuit Board | Through Hole - Solder |
|---|-----------------------|

Mechanical Attachment

| | |
|--------------------------|-----------|
| PCB Mount Retention Type | Boardlock |
|--------------------------|-----------|

Housing Features

| | |
|-----------------------|------|
| Mating Entry Location | Side |
|-----------------------|------|

| | |
|---------------|-------|
| Housing Color | Black |
|---------------|-------|

| | |
|------------------|------------------------------|
| Housing Material | LCP (Liquid Crystal Polymer) |
|------------------|------------------------------|

Dimensions



| | |
|------------------|------------------|
| Connector Height | 13.5 mm[.531 in] |
|------------------|------------------|

Usage Conditions

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

Operation/Application

| | |
|----------|-----|
| Shielded | Yes |
|----------|-----|

Industry Standards

| | |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

| | |
|----------------------|-------|
| Performance Category | Cat 5 |
|----------------------|-------|

Packaging Features

| | |
|--------------------|----|
| Packaging Quantity | 80 |
|--------------------|----|

| | |
|------------------|------|
| Packaging Method | Reel |
|------------------|------|

Other

| | |
|--------------------------|----------------------------------|
| Shield Panel Ground Type | Shield has bottom panel grounds. |
|--------------------------|----------------------------------|

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 | Compliant |
|-----------------------------|-----------|

| | |
|---|---|
| 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 2022 (224) Candidate List Declared Against: JUNE 2022 (224) Does not contain REACH SVHC |
|--|---|

| | |
|-----------------|--|
| Halogen Content | BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources. |
|-----------------|--|

| | |
|---------------------------|--------------------------------|
| Solder Process Capability | Reflow solder capable to 260°C |
|---------------------------|--------------------------------|

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 Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on

requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts



TE Part # 1987236-1
RJ45 CONNECTOR IP20 45 DEG., INDUSTRIAL



TE Part # 1987328-1
RJ45 COMMON CORE, 4x2 POS.



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



TE Part # 1987236-3
RJ45 CONNECTOR IP20 45 DEG., INDUSTRIAL



TE Part # 1903526-1
IE RJ45 CONNECTOR IP20 4POS 180DEG



TE Part # 1903527-1
IE RJ45 CONNECTOR IP20 8POS 180DEG



TE Part # 1-2300158-1
CA IND RJ45STR 8POS PIGTAIL



TE Part # 1-2300158-2
CA IND RJ45STR 8POS PIGTAIL



TE Part # 1-2300158-3
CA IND RJ45STR 8POS PIGTAIL



TE Part # 1-2300158-4
CA IND RJ45STR 8POS PIGTAIL



TE Part # 1-2300158-5
CA IND RJ45STR 8POS PIGTAIL



TE Part # 1-2300158-6
CA IND RJ45STR 8POS PIGTAIL



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



TE Part # 1-2300160-2
CA IND RJ45STR 8POS



TE Part # 1-2300160-3
CA IND RJ45STR 8POS



TE Part # 1-2300160-4
CA IND RJ45STR 8POS



Also in the Series | [Industrial RJ45 Mag Jack](#)



Documents

Product Drawings

[RJ45 JACK INT.MAG. 10/100 1X1](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_2301994-4_B.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2301994-4_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2301994-4_B.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[1-1773921-5_RJ45_Integrated_Magnetics_0617](#)

English

Product Specifications

[Application Specification](#)

English

