

RJ45C5 T1D 3.2E4G/Y TY**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

The product range encompasses the following designs:

- 90°, lying (horizontal) and 180°, standing (vertical)
- latch up / latch down
- THT, THR or SMD soldering processes
- Wide range of different design types, also with integrated LEDs and shield contact tabs
- Performance category Cat. 3 to Cat. 6
- Packed either in a tray (TY) or on a roll (tape-on-reel, RL)
- Compatible with modular RJ45 connector according to ANSI / TIA-1096-A and IEC 60603
- Dielectric strength ≥ 1500 V AC RMS (2250 V AC peak value) according to IEEE 802.3
- Dielectric strength ≥ 1500 V AC (peak value) or ≥ 1500 V DC according to IEC 60603

Properties and advantages:

- Extended temperature range of -40°C to $+85^{\circ}\text{C}$ for maximum performance
- Reinforced gold layer ($30\mu\text{m}$) for improved corrosion protection
- At least 0.3mm stand-off ensures a perfect soldering result

General ordering data

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| Version | PCB plug-in connector, RJ45 jacks, Cat. 5 , THT solder connection, 90°, Latch option: bottom, Shield tabs: 6 tabs, 30...80 μm Ni / $\geq 30 \mu\text{m}$ Au , LED: Yes, green, yellow, Number of poles: 12, Tray (manual assembly) |
| Order No. | 2562820000 |
| Type | RJ45C5 T1D 3.2E4G/Y TY |
| GTIN (EAN) | 4050118571875 |
| Qty. | 140 pc(s). |
| Packaging | Tray (manual assembly) |

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Technical data

Dimensions and weights

| | | | |
|--------------------------|------------|-----------------|------------|
| Depth | 21.5 mm | Depth (inches) | 0.846 inch |
| Height | 16.8 mm | Height (inches) | 0.661 inch |
| Height of lowest version | 13.6 mm | Width | 15.8 mm |
| Width (inches) | 0.622 inch | Net weight | 8.343 g |

System specifications

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| Category | Cat. 5 |
| Colour of left LED | green |
| Colour of right LED | yellow |
| Forward current | 20 mA |
| Forward voltage, max. | 2.6 V |
| Forward voltage, min. | 1.8 V |
| LED | Yes |
| Latch option | bottom |
| Mounting onto the PCB | THT solder connection |
| Number of poles | 12 |
| Number of solder pins per pole | 1 |
| Outgoing elbow | 90° |
| Performance-Category | Cat. 5 |
| Pitch in inches (P) | 0.05 " |
| Pitch in mm (P) | 1.27 mm |
| Plugging cycles | 750 |
| Product family | OMNIMATE Data - RJ45 modular jack |
| Protection degree | IP20 |
| Shield surface | nickel-plated |
| Shield tabs | 6 tabs |
| Shielding | Yes |
| Shielding material | Brass |
| Solder eyelet hole diameter (D) | 0.9 mm |
| Solder eyelet hole diameter tolerance (D) | ± 0.1 mm |
| Solder pin dimensions | Octagonal |
| Solder pin length (l) | 3.2 mm |
| Solder pin length tolerance | +0.5 / -0.5 mm |
| Solder pin length tolerance | Lower tolerance with prefix (reveals minimum) -0.5 |
| | Upper tolerance with prefix (reveals maximum) +0.5 |
| | Tolerance, unit mm |
| Soldering process | Manual soldering, Wave soldering |
| Tolerance of solder pin position | ± 0.15 mm |
| Type of connection | Solder connection |
| Wiring | 8-core |

Electrical properties

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|--|-----------|---------------------------------------|----------------------------|
| Dielectric strength, contact / contact | 1000 V DC | Dielectric strength, contact / shield | 1500 V DC |
| Insulation strength | ≥ 500 MΩ | PoE / PoE+ | conforming to IEEE 802.3at |
| Rated current | 1.5 A | Rated voltage | 125 V |

Standards

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| Connector standard | IEC 60603-7 |
|--------------------|-------------|

Creation date July 5, 2024 3:13:25 AM CEST

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Material data

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|----------------------------------|----------------------------|-----------------------------|-------------------|
| Insulating material | PA 66 | Colour | black |
| Colour chart (similar) | RAL 9011 | Insulating material group | II |
| Comparative Tracking Index (CTI) | ≥ 500 | Insulation strength | ≥ 500 MΩ |
| UL 94 flammability rating | V-0 | Contact base material | Phosphorus bronze |
| Contact material | Cu-alloy | Contact surface | Gold over nickel |
| Layer structure of plug contact | 30...80 μ" Ni / ≥ 30 μ" Au | Storage temperature, min. | -40 °C |
| Storage temperature, max. | 85 °C | Operating temperature, min. | -40 °C |
| Operating temperature, max. | 85 °C | | |

Packing

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|-----------|------------------------|------------|--------|
| Packaging | Tray (manual assembly) | VPE length | 316 mm |
| VPE width | 190 mm | VPE height | 68 mm |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002637 | ETIM 7.0 | EC002637 |
| ETIM 8.0 | EC002637 | ETIM 9.0 | EC002637 |
| ECLASS 9.0 | 27-44-04-02 | ECLASS 9.1 | 27-44-04-02 |
| ECLASS 10.0 | 27-44-04-02 | ECLASS 11.0 | 27-46-02-01 |
| ECLASS 12.0 | 27-46-02-01 | ECLASS 13.0 | 27-46-02-01 |

Environmental Product Compliance

REACH SVHC /

Approvals

ROHS Conform

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | Certificate of Compliance |
| Engineering Data | CAD data – STEP |
| Catalogues | Catalogues in PDF-format |

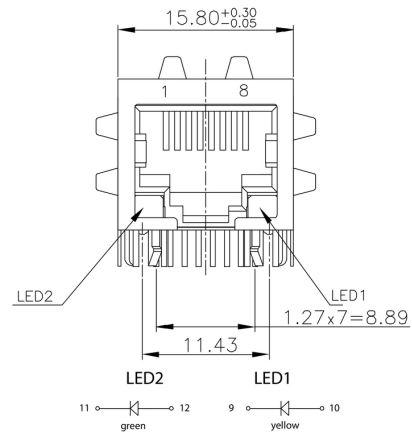
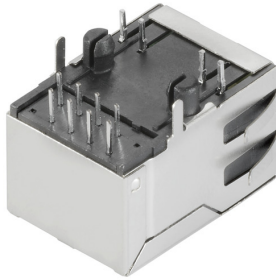
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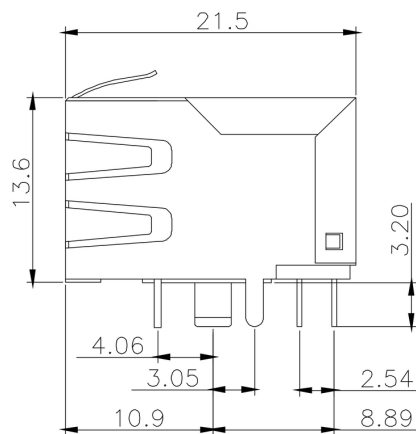
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Drawings

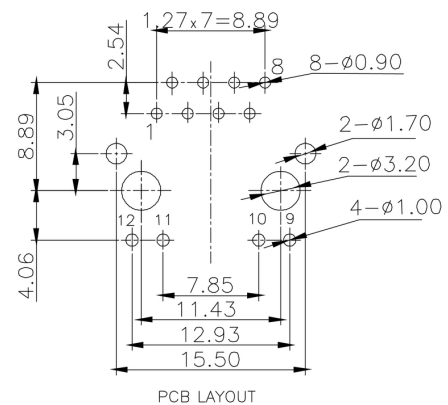
Dimensioned drawing



Dimensioned drawing



PCB design



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Recommended wave soldering profiles

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Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.