

RJ45M R1D 3.3N4G/Y RL

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

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RJ45 transmitter sockets (magnetics) for gigabit applications (1000 base-T) with integrated compensation actively counteracts inductive and capacitive couplings and saves space on the PCB.

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
- Transmission rates of up to 1 Gbps
- 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
- Compliance with IEEE 802.3 requirements (1000Base-T, 1 Gbps, IEEE 802.3ab or 100Base-Tx, 100 Mbps, IEEE 802.3u) Properties and advantages:
 - Extended temperature range of -40 °C to $+85$ °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

| | |
|------------|---|
| Version | OMNIMATE Data - RJ45 transformer jack, PCB plug-in connector, THT/THR solder connection, 90°, Yes, Plugging cycles: 750, Number of poles: 10, PA 9T, Tape |
| Order No. | 2862920000 |
| Type | RJ45M R1D 3.3N4G/Y RL |
| GTIN (EAN) | 4064675593577 |
| Qty. | 200 items |
| Packaging | Tape |

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Technical data

Approvals

| | |
|------|---------|
| ROHS | Conform |
|------|---------|

Dimensions and weights

| | |
|------------|--------|
| Net weight | 9.04 g |
|------------|--------|

Environmental Product Compliance

| | |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC | No SVHC above 0.1 wt% |

System specifications

| | | | |
|----------------------------------|--|-----------------------|---------------------------|
| Number of poles | 10 | LED | Yes |
| Solder pin length (l) | 3.3 mm | Mounting onto the PCB | THT/THR solder connection |
| Pitch in inches (P) | 0.050 " | Shielding | Yes |
| Side termination, characteristic | Solder flange | Type of connection | Solder connection |
| Product family | OMNIMATE Data - RJ45 transformer jack | Pitch in mm (P) | 1.27 mm |
| Protection degree | IP20 | Plugging cycles | 750 |
| Outgoing elbow | 90° | Forward current | 20 mA |
| Forward voltage, max. | 2.6 V | Colour of right LED | yellow |
| Soldering process | Reflow soldering, Manual soldering, Wave soldering | Forward voltage, min. | 1.8 V |
| Colour of left LED | green | | |

Electrical properties

| | | | |
|-----------------------|----------|-----------------|-------|
| Insulation resistance | ≥ 500 MΩ | Nominal voltage | 125 V |
|-----------------------|----------|-----------------|-------|

Standards

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

Material data

| | | | |
|-----------------------------|-------------------|-----------------------------|----------|
| Insulating material | PA 9T | Colour | black |
| Colour chart (similar) | RAL 9011 | Insulation resistance | ≥ 500 MΩ |
| Moisture Level (MSL) | 1 | UL 94 flammability rating | V-0 |
| Contact base material | Phosphorus bronze | Contact material | Cu-alloy |
| Contact surface | Gold over nickel | Storage temperature, min. | -40 °C |
| Storage temperature, max. | 85 °C | Operating temperature, min. | -40 °C |
| Operating temperature, max. | 85 °C | | |

Packing

| | | | |
|-----------|-----------|------------|-----------|
| Packaging | Tape | VPE length | 357.00 mm |
| VPE width | 348.00 mm | VPE height | 126.00 mm |

Important note

Notes

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Technical data**Classifications**

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002637 | ETIM 7.0 | EC002637 |
| ETIM 8.0 | EC002637 | ETIM 9.0 | EC002637 |
| ETIM 10.0 | EC002637 | 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 |
| ECLASS 14.0 | 27-46-02-01 | ECLASS 15.0 | 27-46-02-01 |