

RJ45 10G RJ45 plug Cat6, 8p IDC straight



Image is for illustration purposes only. Please refer to product description.

| | |
|--------------------|---|
| Part number | 09 45 151 1560 |
| Specification | RJ45 10G RJ45 plug Cat6, 8p IDC straight |
| HARTING eCatalogue | https://harting.com/09451511560 |

Identification

| | |
|---------------|-------------------------------|
| Category | Connectors |
| Series | HARTING RJ Industrial® |
| Element | Cable connector |
| Specification | PROFINET Straight |
| Features | Suitable for all PoE versions |

Version

| | |
|--------------------|---|
| Termination method | IDC insulation displacement termination |
| Shielding | Fully shielded, 360° shielding contact |
| Number of contacts | 8 |

Technical characteristics

| | |
|-------------------------------|---|
| Conductor cross-section | 0.1 ... 0.32 mm ² solid and stranded |
| Conductor cross-section [AWG] | AWG 27/7 ... AWG 22/7 Stranded AWG 27/1 ... AWG 22/1 Solid |
| Wire outer diameter | ≤1.6 mm |
| Rated current | 1.75 A |
| Rated voltage | 50 V AC 60 V DC |
| Transmission characteristics | Cat. 6 Class E _A up to 500 MHz |



Pushing Performance
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Technical characteristics

| | |
|--|--|
| Data rate | 10 Mbit/s |
| | 100 Mbit/s |
| | 1 Gbit/s |
| | 2.5 Gbit/s |
| | 5 Gbit/s |
| | 10 Gbit/s |
| Insulation resistance | $> 5 \times 10^9 \Omega$ |
| Contact resistance | $\leq 20 \text{ m}\Omega$ |
| Limiting temperature | -40 ... +70 °C |
| Relative humidity | 95 % Non-condensing (operation) |
| Insertion force | 25 N |
| Withdrawal force | 25 N |
| Mating cycles | ≥ 750 |
| Degree of protection acc. to IEC 60529 | IP20 |
| Cable diameter | 4.5 ... 9 mm |
| Test voltage U_{DC} | 1 kV (contact-contact) |
| | 1.5 kV (contact-ground) |
| Vibration resistance | 10-500 Hz, 5 g, 0.35 mm, 2h/axis |
| | 7.9 m/s ² acc. to IEC 61373 Category 1 Class B |
| Shock resistance | 25 g / 11 ms, 5 shocks / axis and direction acc. to IEC 61373 Category 1 Class B |

Material properties

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| Material (insert) | Thermoplastic resin (PBT) |
| Colour (insert) | Yellow |
| Material (contacts) | Copper alloy |
| Material (hood/housing) | Polyamide (PA) |
| Colour (hood/housing) | Black |
| Material flammability class acc. to UL 94 | V-0 |
| RoHS | compliant |
| ELV status | compliant |
| China RoHS | e |
| REACH Annex XVII substances | Not contained |
| REACH ANNEX XIV substances | Not contained |
| REACH SVHC substances | Yes |
| REACH SVHC substances | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one |
| ECHA SCIP number | 567c8be8-5fa0-43aa-a4c0-beb9d99b7769 |



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Material properties

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|--------------------------------------|----------------------|
| California Proposition 65 substances | Not contained |
| Fire protection on railway vehicles | EN 45545-2 (2020-08) |
| Requirement set with Hazard Levels | R26 |

Specifications and approvals

| | |
|----------------|-----------------------------------|
| Specifications | IEC 60603-7 Mating face |
| | ISO/IEC 11801 |
| | EN 50173-1 |
| | EN 45545-2 |
| UL / CSA | UL 1977 ECBT2.E102079 |
| | CSA-C22.2 No. 182.3 ECBT8.E102079 |
| Approvals | DNV GL |
| PROFINET | Yes |

Commercial data

| | |
|--------------------------------|---|
| Packaging size | 1 |
| Net weight | 0.9 g |
| Country of origin | Romania |
| European customs tariff number | 85366990 |
| GTIN | 5713140059443 |
| eCl@ss | 27440114 Rectangular connector (for field assembly) |
| ETIM | EC002636 |
| UNSPSC 24.0 | 39121408 |