



Pushing Performance  
Since 1945

# RJ45 MF RJ45 plug Cat6A, 8p IDC angled



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

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Part number        | 09 45 151 1571                                                                |
| Specification      | RJ45 MF RJ45 plug Cat6A, 8p IDC angled                                        |
| HARTING eCatalogue | <a href="https://harting.com/09451511571">https://harting.com/09451511571</a> |

## Identification

|                          |                                              |
|--------------------------|----------------------------------------------|
| Category                 | Connectors                                   |
| Series of hoods/housings | HARTING RJ Industrial®                       |
| Element                  | Connector                                    |
| Specification            | PROFINET<br>Multi Feature RJ45<br>90° angled |
| 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       | 0.12 ... 0.32 mm² Stranded<br>0.12 ... 0.32 mm² Solid         |
| Conductor cross-section [AWG] | AWG 26/7 ... AWG 22/7 Stranded<br>AWG 26/1 ... AWG 22/1 Solid |
| Wire outer diameter           | 0.8 ... 1.6 mm                                                |
| Rated current                 | 1.76 A                                                        |
| Rated voltage                 | 50 V AC<br>60 V DC                                            |
| Transmission characteristics  | Cat. 6A Class E <sub>A</sub> up to 500 MHz                    |



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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                     | $\leq 20 \text{ m}\Omega$                                                        |
| Contact resistance, shielding          | $\leq 100 \text{ m}\Omega$                                                       |
| Limiting temperature                   | $-40 \dots +85 \text{ }^\circ\text{C}$                                           |
| Relative humidity                      | 95 % Non-condensing (operation)                                                  |
| Insertion force                        | $\leq 25 \text{ N}$                                                              |
| Withdrawal force                       | $\leq 25 \text{ N}$                                                              |
| Mating cycles                          | $\geq 750$                                                                       |
| 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, 0.35 mm / 50 m/s <sup>2</sup> , 2h/axis                               |
|                                        | 5.72 m/s <sup>2</sup> acc. to IEC 61373 Category 1 Class B                       |
| Shock resistance                       | 50 g / 30 ms, 3 shocks / axis and direction acc. to IEC 61373 Category 1 Class B |

## Material properties

|                                           |                             |
|-------------------------------------------|-----------------------------|
| Material (insert)                         | Polycarbonate (PC)          |
| Material (contacts)                       | Copper alloy                |
| Surface (contacts)                        | Au over Ni Mating side      |
|                                           | Sn over Ni Termination side |
| Material (hood/housing)                   | Zinc die-cast               |
| Surface (hood/housing)                    | Nickel plated               |
| Colour (hood/housing)                     | silver                      |
| 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               |



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## Material properties

|                                      |               |
|--------------------------------------|---------------|
| REACH SVHC substances                | Not contained |
| California Proposition 65 substances | Not contained |

## Specifications and approvals

|                |                                   |
|----------------|-----------------------------------|
| Specifications | IEC 60603-7 Mating face           |
|                | ISO/IEC 11801                     |
|                | EN 50173-1                        |
| 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                     | 34.37 g                                             |
| Country of origin              | Latvia                                              |
| European customs tariff number | 85366990                                            |
| GTIN                           | 5713140224346                                       |
| eCl@ss                         | 27440114 Rectangular connector (for field assembly) |
| ETIM                           | EC002636                                            |
| UNSPSC 24.0                    | 39121408                                            |