

## RJI MF-PN RJ45plug Cat5, 4p IDC straight



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

|                    |                                                                                       |
|--------------------|---------------------------------------------------------------------------------------|
| Part number        | 09 45 151 1140                                                                        |
| Specification      | RJI MF-PN RJ45plug Cat5, 4p IDC straight                                              |
| HARTING eCatalogue | <a href="https://b2b.harting.com/09451511140">https://b2b.harting.com/09451511140</a> |

### Identification

|                          |                                |
|--------------------------|--------------------------------|
| Category                 | Connectors                     |
| Series of hoods/housings | HARTING RJ Industrial®         |
| Element                  | Connector                      |
| Specification            | Multi Feature RJ45<br>Straight |
| Features                 | Suitable for all PoE versions  |

### Version

|                    |                                        |
|--------------------|----------------------------------------|
| Termination method | IDC termination                        |
| Shielding          | Fully shielded, 360° shielding contact |
| Number of contacts | 4                                      |

### Technical characteristics

|                              |                                |
|------------------------------|--------------------------------|
| Conductor cross-section      | 0.12 ... 0.32 mm² Stranded     |
|                              | 0.12 ... 0.32 mm² Solid        |
| Conductor cross-section      | AWG 26/7 ... AWG 22/7 Stranded |
|                              | 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                        |
|                              | 60 V DC                        |
| Transmission characteristics | Cat. 5 Class D up to 100 MHz   |
| Data rate                    | 10 Mbit/s                      |
|                              | 100 Mbit/s                     |



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## Technical characteristics

|                                        |                                                                                                                   |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 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)<br>1.5 kV (contact-ground)                                                                 |
| Vibration resistance                   | 10-500 Hz, 0.35 mm / 50 m/s <sup>2</sup> , 2h/Achse<br>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<br>Sn over Ni Termination side  |
| Material (hood/housing)              | Zinc die-cast                                          |
| Surface (hood/housing)               | Nickel plated                                          |
| Colour (hood/housing)                | Silver                                                 |
| RoHS                                 | compliant with exemption                               |
| RoHS exemptions                      | 6(c): Copper alloy containing up to 4 % lead by weight |
| ELV status                           | compliant with exemption                               |
| China RoHS                           | 50                                                     |
| REACH Annex XVII substances          | Not contained                                          |
| REACH ANNEX XIV substances           | Not contained                                          |
| REACH SVHC substances                | Yes                                                    |
| REACH SVHC substances                | Lead                                                   |
| California Proposition 65 substances | Yes                                                    |
| California Proposition 65 substances | Lead                                                   |



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## 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                     | 31.6 g                                              |
| Country of origin              | Latvia                                              |
| European customs tariff number | 85366990                                            |
| GTIN                           | 5713140224308                                       |
| ETIM                           | EC002636                                            |
| eCl@ss                         | 27440114 Rectangular connector (for field assembly) |