



Pushing Performance  
Since 1945

# preLink RJ45 plug, AWG22/24, IP20 Cat.6A

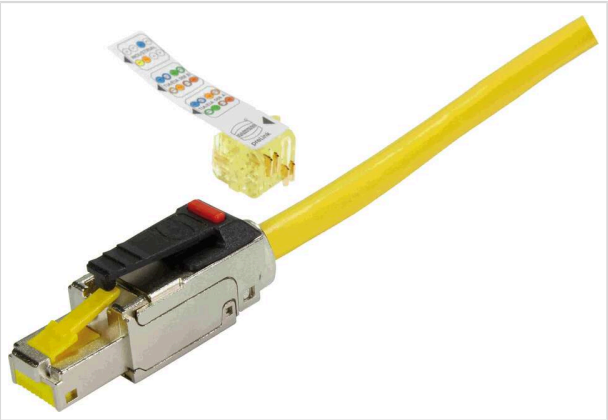


Image is for illustration purposes only. Please refer to product description.

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Part number        | 20 82 101 0012                                                                |
| Specification      | preLink RJ45 plug, AWG22/24, IP20 Cat.6A                                      |
| HARTING eCatalogue | <a href="https://harting.com/20821010012">https://harting.com/20821010012</a> |

## Identification

|          |                               |
|----------|-------------------------------|
| Category | Connectors                    |
| Series   | preLink®<br>RJ45              |
| Element  | Connector                     |
| Features | Suitable for all PoE versions |

## Version

|                    |                                                  |
|--------------------|--------------------------------------------------|
| Termination method | preLink® IDC insulation displacement termination |
| Gender             | Male                                             |
| Shielding          | Shielded                                         |
| Number of contacts | 8                                                |

## Technical characteristics

|                               |                                                                            |
|-------------------------------|----------------------------------------------------------------------------|
| Conductor cross-section (mm²) | 0.22 ... 0.32 mm²                                                          |
| Conductor cross-section (AWG) | AWG 24 ... AWG 22                                                          |
| Rated voltage                 | 50 V AC<br>60 V DC                                                         |
| Transmission characteristics  | Cat. 6A Class E <sub>A</sub> up to 500 MHz                                 |
| Data rate                     | 10 Mbit/s<br>100 Mbit/s<br>1 Gbit/s<br>2.5 Gbit/s<br>5 Gbit/s<br>10 Gbit/s |
| Insulation resistance         | > 5 x 10 <sup>9</sup> Ω                                                    |



**Pushing Performance**  
Since 1945

## Technical characteristics

|                                        |                                                                                 |
|----------------------------------------|---------------------------------------------------------------------------------|
| Contact resistance                     | 20 mΩ                                                                           |
| Limiting temperature                   | -40 ... +85 °C                                                                  |
| Relative humidity                      | 95 % Non-condensing (operation)                                                 |
| Mating cycles                          | ≥750                                                                            |
| Degree of protection acc. to IEC 60529 | IP20                                                                            |
| Cable diameter                         | 5 ... 9 mm                                                                      |
| Test voltage U <sub>DC</sub>           | 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                       | 30 g / 11 ms, 3 shocks / axis and direction                                     |
|                                        | 5 g / 30 ms, 5 shocks / axis and direction acc. to IEC 61373 Category 1 Class B |

## Material properties

|                                      |                              |
|--------------------------------------|------------------------------|
| Material (insert)                    | Zinc die-cast, nickel-plated |
| RoHS                                 | compliant                    |
| ELV status                           | compliant                    |
| China RoHS                           | e                            |
| REACH Annex XVII substances          | Not contained                |
| REACH ANNEX XIV substances           | Not contained                |
| REACH SVHC substances                | Not contained                |
| California Proposition 65 substances | Yes                          |
| California Proposition 65 substances | Nickel                       |

## Specifications and approvals

|                |                         |
|----------------|-------------------------|
| Specifications | IEC 60603-7 Mating face |
| Approvals      | DNV GL                  |
| PROFINET       | Yes                     |

## Commercial data

|                                |                                                     |
|--------------------------------|-----------------------------------------------------|
| Packaging size                 | 1                                                   |
| Country of origin              | Latvia                                              |
| European customs tariff number | 85366990                                            |
| GTIN                           | 5713140224193                                       |
| eCl@ss                         | 27440114 Rectangular connector (for field assembly) |



Pushing Performance  
Since 1945

Commercial data

|             |          |
|-------------|----------|
| ETIM        | EC002636 |
| UNSPSC 24.0 | 39121408 |