

|                           |                                          |                                                                                     |
|---------------------------|------------------------------------------|-------------------------------------------------------------------------------------|
| 2171279                   | <b>DATA SHEET</b>                        |  |
| Valid from:<br>17.09.2018 | <b>IE-PNC-5-RJ45-(L*)-P-2-22-FD-RJ45</b> |                                                                                     |

## Product description

Industrial Ethernet Patchcord, Profinet Type C, Cat.5, straight plug RJ45 on straight plug RJ45, PUR, for drag chain



This datasheet is also valid for other lengths configurations. Other lengths configurations on request

## Product variations

| Article number | Article description             | Length (L*) [m] |
|----------------|---------------------------------|-----------------|
| 2171279        | IE-PNC-5-RJ45-1-P-2-22-FD-RJ45  | 1               |
| 2171280        | IE-PNC-5-RJ45-2-P-2-22-FD-RJ45  | 2               |
| 2171281        | IE-PNC-5-RJ45-3-P-2-22-FD-RJ45  | 3               |
| 2171282        | IE-PNC-5-RJ45-5-P-2-22-FD-RJ45  | 5               |
| 2171283        | IE-PNC-5-RJ45-10-P-2-22-FD-RJ45 | 10              |
| 2171284        | IE-PNC-5-RJ45-20-P-2-22-FD-RJ45 | 20              |

## General properties, Patchcord

|                       |                           |
|-----------------------|---------------------------|
| Outer diameter, cable | 6.5 mm                    |
| Number of cores       | 4                         |
| Outer sheath          | PVC                       |
| Outer sheath, color   | green similar to RAL 6018 |

## General properties, cable

|                              |                                                                                                  |
|------------------------------|--------------------------------------------------------------------------------------------------|
| LAPP-Article number of cable | 2170894                                                                                          |
| LAPP-Description of cable    | ETHERLINE FD P FC Cat. 5                                                                         |
| Conductor, outer diameter    | ca. 0.75 mm                                                                                      |
| Conductor, material          | tinned copper, fine-wire stranded                                                                |
| Insulation, outer diameter   | ca. 1.5 mm                                                                                       |
| Insulation, material         | PE                                                                                               |
| Core identification code     | acc. to IEC 708-1: white, yellow, blue, orange                                                   |
| Stranding                    | star quad                                                                                        |
| Wrapping                     | plastic tape                                                                                     |
| Screening                    | plastic laminated aluminum foil<br>on top: braid of copper wire<br>tinned wire, coverage ca. 85% |

|                                           |                                      |             |
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### Electrical properties, cable at 20°C

|                                                     |                                            |
|-----------------------------------------------------|--------------------------------------------|
| Resistance (loop)                                   | $\leq 120 \Omega/\text{km}$                |
| Insulation material, specific electrical resistance | $\geq 0.5 \text{ G}\Omega \cdot \text{km}$ |
| Characteristic impedance (1 MHz to 100 MHz)         | $100 \Omega \pm 15 \Omega$                 |
| Signal propagation time                             | $< 5.34 \text{ ns/m}$                      |
| Test voltage (rms 50 Hz, 1 min.), core-core         | 700 V                                      |
| Test voltage (rms 50 Hz, 1 min.), core-screening    | 700 V                                      |

### Mechanical and thermal properties, cable

|                                                   |                                                                                                            |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Minimum bending radius, during laying             | 8 x cable diameter                                                                                         |
| Minimum bending radius, fixed installation        | 8 x cable diameter                                                                                         |
| Permissible temperature range, during laying      | -20 °C to +60 °C                                                                                           |
| Permissible temperature range, fixed installation | -30 °C to +70 °C                                                                                           |
| Flame propagation                                 | flame retardant acc. to UL 1581 (VW-1)                                                                     |
| Halogen free                                      | halogen free acc. to VDE 0472-815                                                                          |
| General requirements                              | Dangerous and forbidden substance acc. to RoHS directive (2011/65/EG) are not allowed to the manufacturing |

### General properties, RJ45 connector

|                        |                    |
|------------------------|--------------------|
| Protection degree      | IP20               |
| Rated voltage max.     | 50 V               |
| Rated current at 40 °C | 1 A                |
| Ambient temperature    | -40 °C to +70 °C   |
| Insulation resistance  | $\geq 10^8 \Omega$ |

### Materials, RJ45 connector

|                         |      |
|-------------------------|------|
| Contacts, base material | CuZn |
| Contacts, surface       | Au   |
| Grip body               | TPU  |

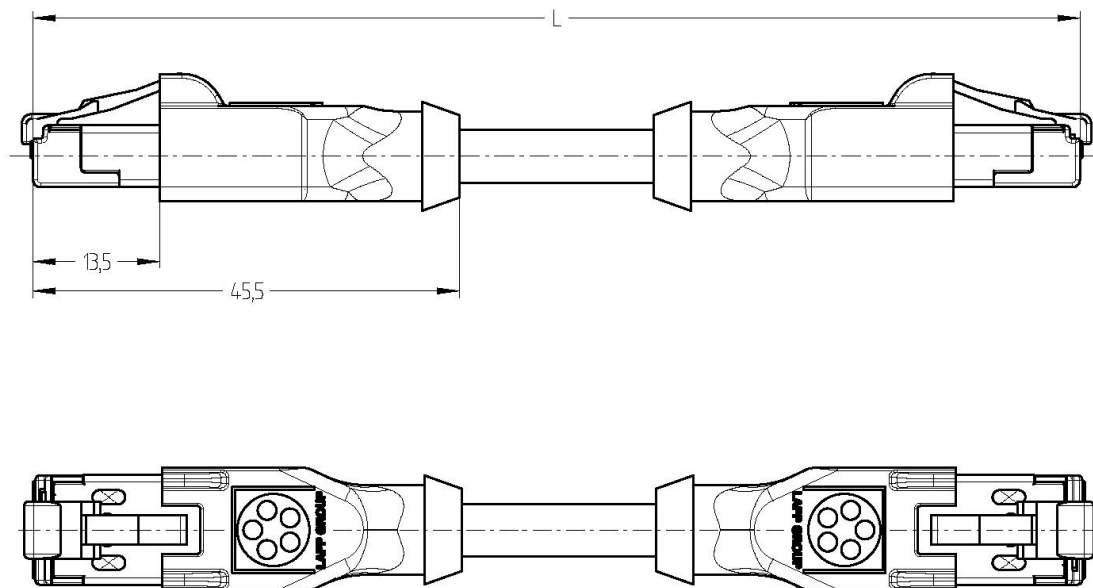
### Standards

|                                  |                   |
|----------------------------------|-------------------|
| Product standard, RJ45 connector | DIN EN 60603-7-51 |
|----------------------------------|-------------------|

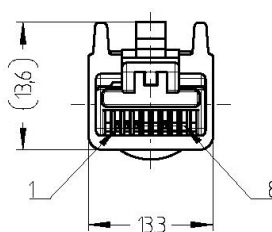
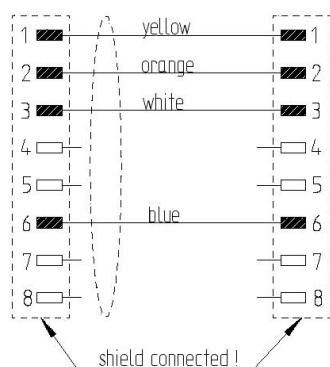
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## Drawings



## Contact Configuration



## Application range

Automation, industrial machinery and plant engineering

## Note

Photographs are not true to scale and do not represent detailed images of the respective products.

|                                           |                                      |             |
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