

|                           |                                     |                                                                                     |
|---------------------------|-------------------------------------|-------------------------------------------------------------------------------------|
| 2171115                   | <b>DATA SHEET</b>                   |  |
| Valid from:<br>17.09.2018 | <b>IE-5-RJ45-(L*)-P-2-26-7-RJ45</b> |                                                                                     |

## Product description

Industrial Ethernet Patchcord, Cat.5e, straight plug RJ45  
on straight plug RJ45, PUR, flexible



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

## Product variations

| Article number | Article description        | Length (L*) [m] |
|----------------|----------------------------|-----------------|
| 2171115        | IE-5-RJ45-1-P-2-26-7-RJ45  | 1               |
| 2171116        | IE-5-RJ45-2-P-2-26-7-RJ45  | 2               |
| 2171117        | IE-5-RJ45-3-P-2-26-7-RJ45  | 3               |
| 2171118        | IE-5-RJ45-5-P-2-26-7-RJ45  | 5               |
| 2171119        | IE-5-RJ45-10-P-2-26-7-RJ45 | 10              |
| 2171120        | IE-5-RJ45-20-P-2-26-7-RJ45 | 20              |

## General properties, Patchcord

|                       |                            |
|-----------------------|----------------------------|
| Outer diameter, cable | 5.6 mm                     |
| Number of cores       | 4                          |
| Outer sheath          | PUR, halogen free compound |
| Outer sheath, color   | blue similar to RAL 502 1  |

## General properties, cable

|                              |                                                                                          |
|------------------------------|------------------------------------------------------------------------------------------|
| LAPP-Article number of cable | 2170284                                                                                  |
| LAPP-Description of cable    | ETHERLINE P FLEX Cat. 5e 2x2x26/7 AWG                                                    |
| Conductor, cross-section     | ca. 0.14 mm <sup>2</sup>                                                                 |
| Conductor, material          | bare copper, fine wire stranded                                                          |
| Insulation, outer diameter   | ca. 0.95 mm                                                                              |
| Insulation, material         | Foam-Skin Polyolefin                                                                     |
| Core identification code     | pair 1: white-orange, orange; pair 2: white-green, green                                 |
| Stranding                    | cores twisted to pairs, pairs stranded together                                          |
| Wrapping                     | 1 layer non-woven tape                                                                   |
| Screening                    | plastic laminated aluminum foil<br>on top: braid of tinned copper wire, coverage ca. 85% |

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

|                                                     |                                          |
|-----------------------------------------------------|------------------------------------------|
| Resistance (loop)                                   | $\leq 284 \Omega/\text{km}$              |
| Insulation material, specific electrical resistance | $\geq 5 \text{ G}\Omega \cdot \text{km}$ |
| Characteristic impedance (1 MHz to 100 MHz)         | $100 \Omega \pm 15 \Omega$               |
| Operating peak voltage                              | 125 V (not for power purposes)           |
| Signal propagation time                             | $< 4.33 \text{ ns/m}$                    |
| Test voltage (rms 50 Hz, 1 min.), core-core         | 1000 V                                   |
| Test voltage (rms 50 Hz, 1 min.), core-screening    | 500 V                                    |

### Mechanical and thermal properties, cable

|                                                         |                                                                                                            |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Minimum bending radius, during laying                   | 15 x cable diameter                                                                                        |
| Minimum bending radius, fixed installation              | 8 x cable diameter                                                                                         |
| Permissible temperature range, during laying (VDE)      | -5 °C to +50 °C                                                                                            |
| Permissible temperature range, fixed installation (VDE) | -40 °C to +80 °C                                                                                           |
| Permissible temperature range, during laying (UL)       | -5 °C to +80 °C                                                                                            |
| Permissible temperature range, fixed installation (UL)  | -40 °C to +80 °C                                                                                           |
| Flame propagation                                       | flame retardant acc. to IEC 60332-1-2                                                                      |
| Halogen free                                            | halogen free acc. to VDE 0472-815                                                                          |
| General requirements                                    | Dangerous and forbidden substance acc. to RoHS directive (2011/65/EU) 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

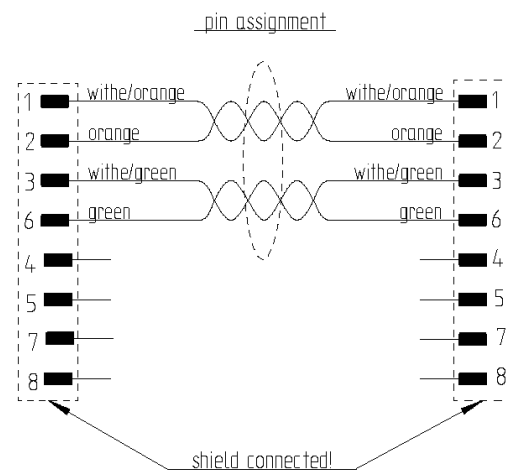
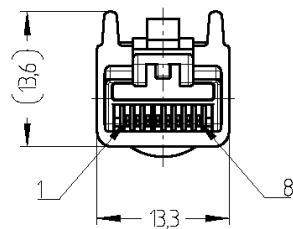
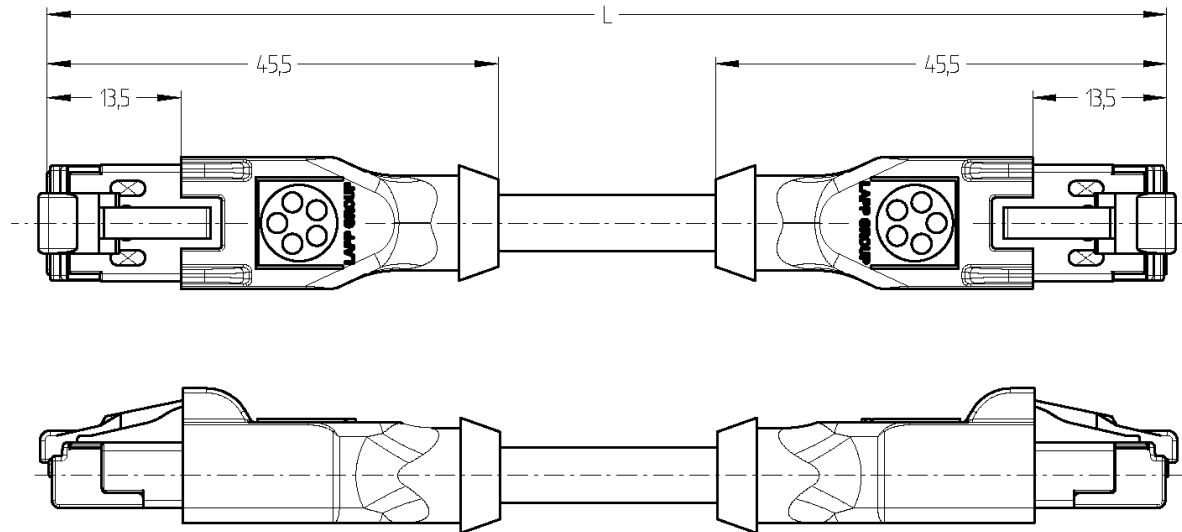
|                         |      |
|-------------------------|------|
| Contacts, base material | CuZn |
| Contacts, surface       | Au   |
| Grip body               | TPU  |

### Standards

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

|                           |                              |                                                                                     |
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## Drawings



## 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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