

IE-PNA-5-RJ45-(L*)-Y-2-22-1-RJ45



Product description

Industrial Ethernet Patchcord, Profinet Type A, Cat.5, straight plug RJ45 on straight plug RJ45, PVC

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

Product variations

| Article number | Article description | Length (L*) [m] |
|----------------|--------------------------------|-----------------|
| 2171179 | IE-PNA-5-RJ45-1-Y-2-22-1-RJ45 | 1 |
| 2171180 | IE-PNA-5-RJ45-2-Y-2-22-1-RJ45 | 2 |
| 2171181 | IE-PNA-5-RJ45-3-Y-2-22-1-RJ45 | 3 |
| 2171182 | IE-PNA-5-RJ45-5-Y-2-22-1-RJ45 | 5 |
| 2171183 | IE-PNA-5-RJ45-10-Y-2-22-1-RJ45 | 10 |
| 2171184 | IE-PNA-5-RJ45-20-Y-2-22-1-RJ45 | 20 |

General properties, Patchcord

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

General properties, cable

| LAPP-Article number of cable | 2170893 |
|------------------------------|--|
| LAPP-Description of cable | ETHERLINE Y FC Cat.5 |
| Conductor, outer diameter | ca. 0.64 mm |
| Conductor, material | bare copper-wire |
| 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 (optional with central filler) |
| Wrapping | plastic tape (overlapping) |
| Screening | plastic laminated aluminum foil (overlapping) |
| | on top: braid of copper wire |
| | tinned wire, coverage ca. 85% |

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|--|-----------------------|--------------|
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17.09.2018



Electrical properties, cable at 20°C

| Resistance (loop) | ≤ 115 Ω/km |
|---|----------------------------|
| Insulation material, specific electrical resistance | ≥ 500 MΩ*km |
| Characteristic impedance (1 MHz to 100 MHz) | $100 \Omega \pm 15 \Omega$ |
| UL-Rating | 600 V |
| Signal propagation time | < 5.3 ns/m |
| Test voltage (rms 50 Hz, 1 min.), core-core | 2000 V |
| Test voltage (rms 50 Hz, 1 min.), core-screening | 2000 V |

Mechanical and thermal properties, cable

| Minimum bending radius, during laying | 15 x cable diameter |
|---|--|
| Minimum bending radius, fixed installation | 10 x cable diameter |
| Permissible temperature range, during laying | -20 °C to +60 °C |
| Permissible temperature range, fixed installation | -40 °C to +80 °C |
| Sunlight resistance | sunlight resistant acc. to UL 1581 Sec. 1200 |
| Flame propagation | flame retardant acc. to UL 1685 (CSA FT 4) |
| General requirements | Dangerous and forbidden substance acc. to RoHS directive (2002/95/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

PD 0019/05_04.18EN

Product standard, RJ45 connector

DIN EN 60603-7-51

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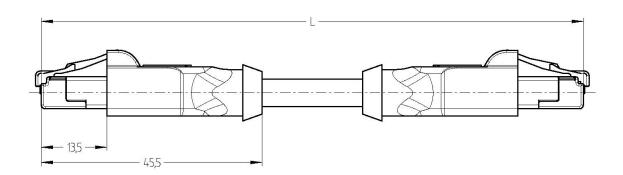
DATA SHEET



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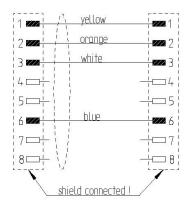
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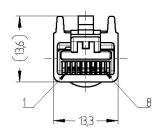
Drawings





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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