

product type designation

product description



IE TP Cord RJ45/RJ45, 4x2

Patch cable, preferred length, preassembled with two RJ45 connectors (10/100/1000/10000MB)

Industrial Ethernet TP Cord RJ45/RJ45, CAT 6A, TP cable 4x2, pre-assembled with 2 RJ45 connectors, length 25 m.

suitability for use

cable designation

wire length

Easy connection of terminal devices to the IE FC cabling system

LI 02YSCH 4x2x0,15 PIMF GN FRNC

25 m

electrical data

number of electrical connections

2

attenuation factor per length

- at 10 MHz / maximum
- at 100 MHz / maximum
- at 300 MHz / maximum
- at 600 MHz / maximum

0.086 dB/m
0.28 dB/m
0.501 dB/m
0.735 dB/m

impedance

- at 1 MHz ... 100 MHz
- at 10 MHz ... 600 MHz

100 Ω
100 Ω

relative symmetrical tolerance

- of the characteristic impedance at 1 MHz ... 100 MHz
- of the characteristic impedance at 10 MHz ... 600 MHz

15 %
10 %

coupling loss / at 30 MHz ... 100 MHz / minimum

70 dB

transfer impedance per length / at 10 MHz

10 mΩ/m

loop resistance per length / maximum

290 mΩ/m

operating voltage

- RMS value

80 V

NVP value in percent

80 %

mechanical data

number of electrical cores

8

design of the shield

Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires

core diameter

- of AWG26 insulated conductor

0.5 mm

outer diameter

- of inner conductor
- of the wire insulation
- of cable sheath

0.5 mm
1 mm
6.2 mm

symmetrical tolerance of the outer diameter / of cable sheath

0.3 mm

material

- of the wire insulation
- of cable sheath

polyethylene (PE)
FRNC

| | |
|---|---|
| color | |
| <ul style="list-style-type: none"> • of the insulation of data wires • of cable sheath | white/blue, white/orange, white/green, white/brown green |
| bending radius | |
| <ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible | 31 mm 43.5 mm |
| weight per length | 50 kg/km |
| ambient conditions | |
| ambient temperature | |
| <ul style="list-style-type: none"> • during operation • during storage • during transport • during installation • note | -25 ... +80 °C -25 ... +80 °C -25 ... +80 °C -25 ... +80 °C In fixed installation -40 °C to 80 °C |
| fire behavior | flame resistant according to IEC 60332-1-2, smoke density according to IEC 61034 |
| class of burning behaviour / according to EN 13501-6 | Eca |
| chemical resistance | |
| <ul style="list-style-type: none"> • to mineral oil • to grease | oil resistant according to IEC 60811-2-1 (4 h / 70°C) Conditional resistance |
| radiological resistance / to UV radiation | not resistant |
| protection class IP | IP20 |
| product features, product functions, product components / general | |
| product feature | |
| <ul style="list-style-type: none"> • halogen-free • silicon-free | Yes Yes |
| standards, specifications, approvals | |
| UL/ETL listing / 300 V Rating | No |
| UL/ETL style / 600 V Rating | Yes; E130266 AWM STYLE 21279 |
| certificate of suitability | |
| <ul style="list-style-type: none"> • EAC approval • UL approval • RoHS conformity | Yes Yes Yes |
| standard for structured cabling | Cat6A |
| Marine classification association | |
| <ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS) | No No No No No No No |
| reference code | |
| <ul style="list-style-type: none"> • according to IEC 81346-2 • according to IEC 81346-2:2019 | WG WGB |