HARTING PROFINET Type A Cable 4-wire Cat. 5 PVC





PROFINET Type A Cable 4-wire, Cat. 5, PVC

Advantages

- Suitable for PROFINET cabling Category 5 / Class D according to ISO/IEC 11801 respectively EN 50173-1 and ISO/IEC 24702 respectively EN 50173-3
- Capable for fix installation
- Applicable for industrial premises
- RoHS conform, UL listed, flame retardant

General

This data cable is suitable for PROFINET cabling according to type A in industrial premises and areas. It is useable for fix installation. The core is fitted with 4 wires twisted to quad that allows the transmission of Fast Ethernet 10/100Mbit/s. It is designed for fast assembling with the easy-stripping tool and can be assembled with all HARTING 4-pole RJ45 connectors.

| retardant | | |
|--|--|--|
| Identification | Part number | Drawing |
| PROFINET Type A Cable 4-wire, Cat. 5, PVC 20 m ring 50 m ring 100 m ring 500 m reel | 09 45 600 0130 09 45 600 0140 09 45 600 0110 09 45 600 0110 | Wire: Solid bare copper AWG22/1 Insulation: PE Ø 1.5 mm Inner sheath: Polyvinylchloride (PVC) Overall screen: Aluminate foil overlapped, tinned copper wire braid, braid coverage about 90% Outer sheath: Polyvinylchloride (PVC), flame retardant Color code: wh, ye, bu, or Color of inner sheath: white Color of outer sheath: green, RAL 6018 Overall diameter: 6.3 mm – 6.7 mm |

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Technical Characteristics

Performance Category 5 according to EN 50288-2-1:2003, IEC 61156-5:2002

Mechanical Characteristics

Minimal bending radius

Repeated bending: 7.5 x diameter

Single bending: 3 x diameter

Tensile strength max. 150 N

Electrical Characteristics at 20 °C

Transfer impedance at 10 MHz
Conductor resistance
Insulation resis

Velocity of propagation 5.3 ns/m

Characteristic impedance at 100 MHz 100 Ohm +/- 5 Ohm

Test voltage (wire/wire/screen rms 50 Hz 1min) 2000 V

Chemical Characteristics

Flame retardant IEC 60332-1-2 Free of hazardous substances RoHS 2002/95/EG

Limited oil resistance

Sunlight resistant UL 1581 Sec.1200

Thermal Characteristics

Permissible temperature range

fixed operation $-40 \, ^{\circ}\text{C}$ to $+75 \, ^{\circ}\text{C}$ flexible operation $-20 \, ^{\circ}\text{C}$ to $+60 \, ^{\circ}\text{C}$

Printing HARTING INDUSTRIAL ETHERNET STANDARD CABLE CAT 5

PLUS * 22AWG (SHIELDED) (UL) E119100 VERIFIED CAT 5E CMG

75 °C or PLTC or AWM 20201 600V FT4 SUN RES *

094560001000100 "sequential length in metres" * "year/internal order

number" "HARTING-LOGO"

Weight about 66 kg/km

All data given are in line with the actual state of art and therefore not binding. HARTING reserves the right to modify designs without giving the relevant reasons.

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Technical Characteristics

| Frequency MHz | Attenuation dB/100m | | NEXT dB | |
|------------------|---------------------|---------------|------------|---------------|
| | typ. | Cat 5 max* | typ. | Cat 5 min* |
| 1 | 1.6 | 2.1 | 80 | 65.3 |
| 4 | 3.2 | 4.0 | 75 | 56.3 |
| 10 | 5.2 | 6.3 | 70 | 50.3 |
| 16 | 6.9 | 8.0 | 65 | 47.2 |
| 20 | 7.8 | 9.0 | 63 | 45.8 |
| 31.25 | 10.5 | 11.4 | 60 | 42.9 |
| 62.5 | 15 | 16.5 | 55 | 38.4 |
| 100 | 19.5 | 21.3 | 50 | 35.3 |

* EN 50288-2-1:2003

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