



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

Advantages

General

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

This data cable is suitable for PROFINET cabling according to type A in industrial premises and areas. It is useable for fixed 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.

Description	Order number	
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 0100 09 45 600 0110	 <ul style="list-style-type: none"> • Wire: Solid bare copper AWG 22/1 • 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

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.

Technical Characteristics

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

Mechanical Characteristics

Minimal bending radius During installation: 7,5 x diameter
After installation: 3 x diameter
Tensile strength max. 150 N

Electrical Characteristics at 20°C

Surface transfer impedance at 10 MHz 10 mOhm/m
Loop resistance max. 115 Ohm/km
Insulation resistance min. 500 MOhm*km
Signal runtime 5.3 ns/m
Characteristic impedance at 100 MHz 100 Ohm +/- 5 Ohm
Test voltage (wire/wire/screen rms 50 Hz 2000 V
1min)

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 - 40°C to + 75°C
During laying - 20°C to + 60°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

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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