HARTING PROFINET Type B Cable 4-wire, Cat. 5, PVC

PROFINET Type B 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 flexible cords
- Applicable for industrial premises
- RoHS conform, UL listed, flame retardant

General

This data cable is suitable for PROFINET cabling according to type B in industrial premises and areas. It is useable for flexible cords. 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 B Cable 4-wire, Cat. 5, PVC	
20 m ring	09 45 600 0132
50 m ring	09 45 600 0142
100 m ring	09 45 600 0102
500 m reel	09 45 600 0112

- Wire: Stranded tinned copper AWG 22/7
- Insulation: : PE ∅ 1.56 mm (+/-0.003)
- Inner sheath: Polyvinylchloride (PVC)
- Overall screen: Aluminate foil overlapped, tinned copper wire braid, braid coverage about 85%
- 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	During installation: 5 x diameter After installation: 3 x diameter
Torsion strength	+/-180°on 1m, 30,000 cycles
Electrical Characteristics at 20°C	
Surface transfer impedance at 10 MHz	20 mOhm/m
Loop resistance	max. 120 Ohm/km
Insulation resistance	min. 500 MOhm x km
Signal runtime	5.3 ns/m
Characteristic impedance at 100 MHz	100 Ohm +/- 5 Ohm
Test voltage (wire/wire/screen rms 50Hz 1min)	2000V
Chemical Characteristics	
Flame retardant	UL 1685 (CSA FT 4)
Free of hazardous substances	RoHS 2002/95/EG
Sunlight resistant	UL 1581 Sec.1200
Thermal Characteristics	
Permissible temperature range	- 40° C to + 70° C
During laying	- 20° C to + 60° C
Printing	HARTING INDUSTRIAL ETHERNET STRANDED CABLE CAT 5 PLUS * 22AWG (SHIELDED) (UL) E119100 CMG or PLTC or AWM 2570 80°C 600V FT4 SUN RES * 094560001020200 "sequential length in meters" * "year/internal order number" HARTING-LOGO"
Weight about	68 kg/km

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Technical Characteristics

Frequency MHz	Attenuation dB/100m		NEXT dB	
	typ.	Cat 5 max*	typ.	Cat 5 min*
1	2.1	2.1	80	80
4	4	4	76	76
10	6.3	6.3	70	70
16	8	8	65	65
20	9	9	63	63
31.25	11.4	11.4	60	60
62.5	16.5	16.5	55	55
100	21.3	21.3	50	50

* EN 50288-2-1:2003

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