

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



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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 especially for outdoor applications. 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

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

20 m ring
50 m ring
100 m ring
500 m reel

Order number

09 45 600 0135
09 45 600 0145
09 45 600 0105
09 45 600 0115



- Wire: Stranded tinned copper AWG 22/7
- Insulation: : PE \varnothing 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: black, RAL 9005
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: 5 x diameter After installation: 3 x diameter
Torsion strength	+/-180°on 1m, 10,000cycles
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 * UV protected * 22AWG (SHIELDED) (UL) E119100 CMG or PLTC or AWM 2570 80°C 600V FT4 SUN RES * 94560001020300 "sequential length in metres" * "year/internal order number" "HARTING-LOGO"
Weight about	68 kg/km

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