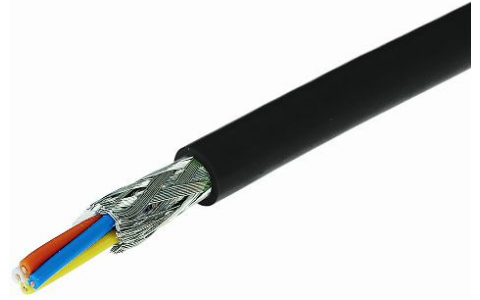# HARTING PROFINET Type B Outdoor Cable 4-wire Cat. 5 PVC

PROFINET Type B Outdoor 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 outdoor installation
- 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.

Identification	Part number	Drawing
PROFINET Type B Outdoor Cable 4-wire, Cat. 5, PVC 20 m ring 50 m ring 100 m ring 500 m reel	09 45 600 0135 09 45 600 0145 09 45 600 0105 09 45 600 0115	

- Wire: Stranded tinned copper AWG22/7
- Insulation: : PE $\varnothing$ 1.56 mm (+/-0.03)
- 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

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

Technical Characteristics

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

Mechanical Characteristics
Minimal bending radius   Repeated bending: 5 x diameter
                                                 Single bending: 3 x diameter
Torsional strength   +/-180° on 1 m, 10,000 cycles

Electrical Characteristics at 20 ℃
Transfer impedance at 10 MHz   20 mOhm/m
Conductor resistance   max. 120 Ohm/km
Insulation resistance   min. 500 MOhm x km
Velocity of propagation   5.3 ns/m
Characteristic impedance at 100 MHz   100 Ohm +/- 5 Ohm
Test voltage (wire/wire/screen rms 50 Hz 1 min) 2000 V

Chemical Characteristics
Flame retardant   UL 1685 (CSA FT 4)
Free of hazardous substances   RoHS 2002/95/EG
Sunlight resistant   UL 1581 Sec.1200, UL-Style 21695

Thermal Characteristics
Permissible temperature range
    fixed operation   - 40 ℃ to + 70 ℃
    flexible operation   - 20 ℃ to + 60 ℃

Printing   HARTING INDUSTRIAL ETHERNET STRANDED CABLE CAT 5
                                                 PLUS * UV protected * 22AWG (SHIELDED) (UL) E333432 CMG
                                                 or PLTC or AWM 21695 80°C 600V FT4 SUN RES *
                                                 094560001020300 "sequential length in metres" * "year/internal
                                                 order number" * "HARTING-LOGO"

Weight about   68 kg/km

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

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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