



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

Advantages	General
<ul style="list-style-type: none"> • 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 	<p>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.</p> <p>It is designed for fast assembling with the easy-stripping tool and can be assembled with all HARTING 4-pole RJ45 connectors.</p>

Identification	Part number	Drawing
<p>PROFINET Type B Cable 4-wire, Cat. 5, PVC</p> <p>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</p>		 <ul style="list-style-type: none"> • Wire: Stranded tinned copper AWG22/7 • Insulation: PE Ø 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 <p>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</p>

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
Torsional strength	Single bending: 3 x diameter +/-180° on 1 m, 30,000 cycles
Electrical Characteristics at 20 °C	
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 °C to + 70 °C
flexible operation	- 20 °C to + 60 °C
Printing	HARTING INDUSTRIAL ETHERNET STRANDED CABLE CAT 5 PLUS * 22AWG (SHIELDED) (UL) E333432 CMG or PLTC or AWM 21695 80°C 600V FT4 SUN RES * 094560001020200 "Metermarkierung" * "Jahr/Auftragsnummer" "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

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