

# HARTING PROFINET Type A Cable 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 and ISO/IEC 24702 respectively EN 50173-3
- Capable fixed installation
- Applicable for industrial premises
- RoHS conform, UL listed, flame retardant

### General

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

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

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

### Order number

09 45 600 0130  
09 45 600 0140  
09 45 600 0100  
09 45 600 0110



- 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

<b>Performance</b>	Category 5 according to EN 50288-2-1:2003, IEC 61156-5:2002
<b>Mechanical Characteristics</b>	
Minimal bending radius	During installation: 7,5 x diameter After installation: 3 x diameter
Tensile strength	max. 150 N
<b>Electrical Characteristics at 20 °C</b>	
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 1min)	2000 V
<b>Chemical Characteristics</b>	
Flame retardant	IEC 60332-1-2
Free of hazardous substances	RoHS 2002/95/EG
Limited oil resistance	
Sunlight resistant	UL 1581 Sec.1200
<b>Thermal Characteristics</b>	
Permissible temperature range	- 40° C to + 75° C
During laying	- 20° C to + 60° C
<b>Printing</b>	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"
<b>Weight about</b>	66 kg/km

## Technical Characteristics

Frequency MHz	Attenuation dB/100m		NEXT dB	
	typ.	Cat 5 max*	typ.	Cat 5 min*
<b>1</b>	1.6	2.1	80	65.3
<b>4</b>	3.2	4.0	75	56.3
<b>10</b>	5.2	6.3	70	50.3
<b>16</b>	6.9	8.0	65	47.2
<b>20</b>	7.8	9.0	63	45.8
<b>31.25</b>	10.5	11.4	60	42.9
<b>62.5</b>	15	16.5	55	38.4
<b>100</b>	19.5	21.3	50	35.3

\* EN 50288-2-1:2003