Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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

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

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	Order number
PROFINET Type A Cable 4-wire, Cat. 5, PVC	
20 m ring	09 45 600 0130
50 m ring	09 45 600 0140
100 m ring	09 45 600 0100
500 m reel	09 45 600 0110

- Wire: Solid bare copper AWG 22/1
- Insulation: : PE ∅ 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

PROFINET Type A 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	During installation: 7,5 x diameter After installation: 3 x diameter
Tensile strength	max. 150 N
Electrical Characteristics at 20°C	
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
Chemical Characteristics	
Flame retardant	IEC 60332-1-2
Free of hazardous substances	RoHS 2002/95/EG
Limited oil resistance	
Sunlight resistant	UL 1581 Sec.1200
Thermal Characteristics	
Permissible temperature range	- 40° C to + 75° C
During laying	- 20° C to + 60° C
Printing	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"
Weight about	66 kg/km

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

Technical Characteristics

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

* EN 50288-2-1:2003