

# HARTING PROFINET Type C Cable 4-wire, Cat. 5, PUR



## PROFINET Type C Cable 4-wire, Cat. 5, PUR

### 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 drag line
- Applicable for industrial premises
- RoHS conform, UL listed, flame retardant, halogen free

### General

This data cable is suitable for PROFINET cabling according to type C in industrial premises and areas. It is useable for flexible cords especially dragline. 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	
<p>PROFINET Type C Cable 4-wire, Cat. 5, PUR</p> <p>20 m ring 50 m ring 100 m ring 500 m reel</p>	<p>09 45 600 0131 09 45 600 0141 09 45 600 0101 09 45 600 0111</p>	<div data-bbox="1062 1126 1414 1473" data-label="Image"> </div> <ul style="list-style-type: none"> <li>• Wire: Stranded tinned copper AWG 22/7</li> <li>• Insulation: : PE Ø 1.5 mm (+0.024/ - 0.036)</li> <li>• Inner sheath: Thermoplastic copolymer (FRNC)</li> <li>• Overall screen: Aluminate foil overlapped, tinned copper wire braid, braid coverage about 85%</li> <li>• Outer sheath: Polyurethane (PUR), flame retardant</li> </ul> <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>

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: 7 x diameter  
After installation: 3 x diameter

Pull force max. 150 N

Trailing cable 3 million bending cycles  
bending diameter 200 mm  
at a speed of 4 m/s  
acceleration 4 m/s<sup>2</sup>

Torsion strength +/-180° on 1m, 30 thousand cycles

### 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\*km

Signal runtime 5.3 ns/m

Characteristic impedance at 100 MHz 100 Ohm +/- 5 Ohm

Test voltage (wire/wire/screen rms 50Hz 2000V  
1min)

### Chemical Characteristics

Flame retardant IEC 60332-1-2

Free of hazardous substances RoHS 2002/95/EG

Oil resistance EN 60811-2-1

UV-resistant

### Thermal Characteristics

Permissible temperature range - 40° C to + 70° C

During laying - 20° C to + 60° C

### Printing

HARTING INDUSTRIAL ETHERNET TRAILING CABLE CAT 5 PLUS \*  
22AWG (SHIELDED) (UL) E119100 VERIFIED CAT 5E PATCH CABLE  
CMX 75°C FRNC \* 094560001010100 "sequential length in meters" \*  
"year/internal order number" "HARTING-LOGO"

### Weight about

61 kg/km

## Technical Characteristics

Frequency MHz	Attenuation dB/100m		NEXT dB	
	typ.	Cat 5 max*	typ.	Cat 5 min*
<b>1</b>	2.1	2.1	80	65.3
<b>4</b>	4	4.0	76	56.3
<b>10</b>	6.3	6.3	70	50.3
<b>16</b>	8	8.0	65	47.2
<b>20</b>	9	9.0	63	45.8
<b>31.25</b>	11.4	11.4	60	42.9
<b>62.5</b>	16.5	16.5	55	38.4
<b>100</b>	21.3	21.3	50	35.3

\* EN 50288-2-1:2003

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.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Multi-Conductor Cables](#) category:*

*Click to view products by [HARTING](#) manufacturer:*

Other Similar products are found below :

[8916-GRY-100](#) [8917-BLK-100](#) [8917-GRN/YEL-100](#) [8918-GRN/YEL-100](#) [8920-BRN-1000](#) [8920-RED-1000](#) [89907-LT-DEC/GRY-500](#)  
[CR3909-000](#) [CR3927-000](#) [01342.35T.01](#) [01364.35T.01](#) [003201-000](#) [CS2885-000](#) [CS8782-000](#) [CS9912-000](#) [6200UE-NAT-U1000](#) [CTC-](#)  
[0062-20-9/5-9](#) [CTC-0062-22-9/5-9](#) [6304FE-877-U500](#) [6309UE-877-1000](#) [6320UE-NAT-U1000](#) [644833-000](#) [6502FE 8771000](#) [6504UE-877-](#)  
[U1000](#) [CW9530-000](#) [CX6543-000](#) [CXA-0066-20-4-9CS2973](#) [CXA-0078-16-1-9CS2405](#) [CXA-0078-22-4-9CS2405](#) [CXA-0078-24-4-](#)  
[9CS2405](#) [CXA-0140-16-6/9-9CS2405](#) [CY0660-000](#) [706/2R-BLACK-EACH](#) [720451-000](#) [730859-000](#) [MCC-USB-4-250](#) [752687-000](#)  
[768146-000](#) [773159-000](#) [7934A-BLK-1000](#) [8125-CHR-100](#) [8164-CHR-1000](#) [820457-000](#) [8205-CHR-1000](#) [8240-BLK-U1000](#) [82723-NAT-](#)  
[1000](#) [82907-NAT-500](#) [83003-YEL-500](#) [83005-WHT-500](#) [83006-DK-GRN-100](#)