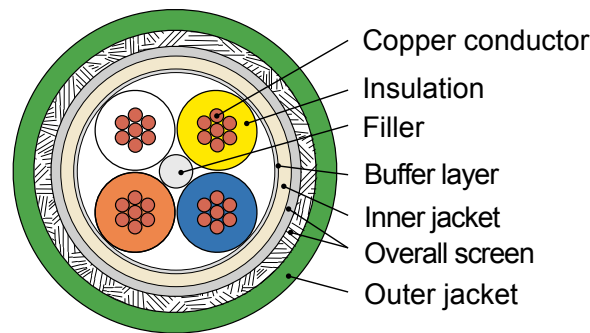


# Patch Cable Profinet Typ C

## SF/UTP AWG22/7 Cat.5



### Application

Work area and patch cord cable for industrial cabling  
IEEE 802.3: 10Base-T; 100Base-T; PROFINET

### Standards

IEC 61918; IEC 61784-5; IEC 61156-6

### Flame resistance

IEC 60332-1; UL 1581 Sec. 1080 VW-1 (vertical flame test)

### Physical properties

Oil resistance	Oil-resistant acc. to DIN EN 60811-403
UV-resistance	UV-resistant acc. to IEC 60068-2-5
Halogen-free	acc. to IEC 60754-1
Silicone-free; CFC-free	

### Construction

Conductor	Stranded bare copper wire Ø 0,76 mm (AWG22/7)
Insulation	Polyethylene, max. Ø 1,51 mm
Cable lay up	4 cores twisted to quad, with central filler
Buffer layer	Mylar tape
Inner jacket	LSZH
Overall screen	Aluminium-laminated plastic foil with foil facing outward and copper braid, tinned with min. 85% coverage
Outer jacket	PUR, green RAL 6018
Cable marking: yellow	PROFINET Typ C SF/UTP 2x2xAWG22/7 Cat.5 Trailing cable PUR E344985 AA c(UL)us CMX -40°C ~ +85°C „sequential length in meters“

### Mechanical properties

Bending radius	≥ 64 mm installation (10 x d) ≥ 32 mm installed
Temperature range	during installation: 0 °C up to +50 °C during operation: -40 °C up to +85 °C
Operating way	max. 1 m
Speed	max. 60 m/min.
Cycles	min. 2 Million
Acceleration	max. 8,7 m/s <sup>2</sup>

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### Electrical properties

at 20°C ± 5°C

Loop resistance	max. 110 Ω/km
Resistance unbalance	max. 2%
Insulation resistance (500V)	min. 500 MΩxkm
Mutual capacitance (at 1 kHz)	nom. 5,1 nF/100m
Capacitance unbalance (at 1 kHz) (pair/ground)	max. 160 pF/100m
Characteristic impedance (1-100 MHz)	100 ± 5 Ω
UL-Rating	600V
Nominal velocity of propagation	< 67%
Propagation delay	≤ 498 ns/100m
Delay skew	≤ 45 ns/100m
Test voltage (DC, 1min) (core/core und core/screen)	1000 V/1min
Transfer impedance	Grade 2 at 10 up to 100 MHz
Coupling attenuation	Type Ib
Segregation classification	„c“ acc. to EN 50174-2 table 3

### Transmission properties

at 20°C ± 5°C

Have been verified as being compliant with the standards.

Order No.	Standard designation	Scope of delivery	Outer diameter mm	Weight kg/km	Fire load		Tensile force N
					MJ/km	kWh/m	
L02002A0207	Li-2YH(ST)C11Y 2x2x0,76 PUR	1000 m wooden drum	6,4 ± 0,3	58,4	785	0,218	max. 400

#### Drum dimensions for L02002A0207:

Drum type	wooden drum
Flange outer diameter d1:	450 mm
Flange inner diameter d2:	220 mm
Central hole / core hole:	56 mm
Overall width:	450 mm
Winding width:	400 mm