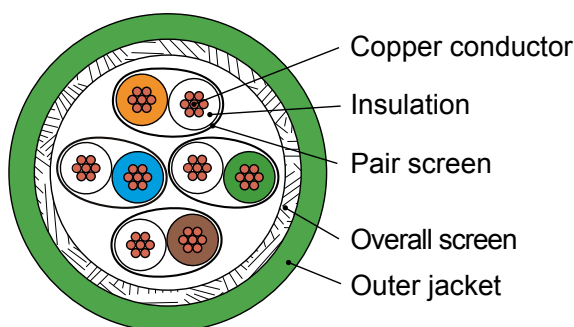


# Patch Cable S PROFINET Typ B S/FTP AWG23/7 Cat.7



## Application

Series of ISO/IEC 11801-x: Class F

Series of EN 50173-x: Class F

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T; PROFINET

IEEE 802.3: Power over Ethernet PoE; PoE+

## Applicable Standards

EN 50288-4-2; IEC 61156-6; UL 444

## Fire behaviour

IEC 60332-3-24, IEC 60332-1-2  
FT4 vertical tray flame test

Flame retardant  
acc. to UL 1685 section 1164/CSA

## Construction

Construction	S/FTP
Conductor	stranded bare copper wire $\varnothing$ 0,66 mm (AWG23/7)
Insulation	Foam skin Polyethylene, max. $\varnothing$ 1,52 mm
Twisting	2 cores to the pair
Pair screen	Aluminium-laminated plastic foil, with foil facing outward
Cable lay up	4 pairs (PiMF)
Overall screen	Copper braid, tinned, optical coverage $85\% \pm 5\%$
Outer jacket	PVC, green similar to RAL 6018
Cable marking: black	PROFINET Type B Cat.7 S/FTP 4x2xAWG23/7 PVC LI02YSCY PiMF -40°C ~+80°C IEC 60332-3-24 E344985 60604 c(UL)us CMG 75 °C FT4 „sequential length in meters“

## Mechanical properties

Outer diameter	8,8 - 0,4 mm / + 0,2 mm
Bending radius	during operation: $\geq 70$ mm during installation: $\geq 132$ mm
Tencile force	max. 100 N
Weight	90 kg/km

## Environment and Security

Temperature range	during operation: -40 °C up to +80 °C during installation: -10 °C up to +70 °C
Fire load	1060 MJ/Km
Oil resistance	Oil-resistant acc. to UL 2556

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## Electrical properties (typical at 20°C)

Characteristic impedance $Z_c$ (1-100 MHz)	100 $\Omega$	
Nominal velocity of propagation NVP	ca. 74%	
Propagation delay	$\leq 4,8$ ns/100m	
Delay skew	$\leq 6$ ns/100m	
Loop resistance	$\leq 14,6$ $\Omega$ /100m	
Resistance unbalance	pair: $\leq 2\%$ between the pairs: $\leq 4\%$	
Insulation resistance (500 V)	$\geq 50.000$ M $\Omega$ x100m	
Nominal capacity (at 800 Hz)	4,8 nF/100m	
Test voltage (DC, 60 sec.) (core/core und core/screen)	1000 V, 50 Hz	
Transfer impedance (m $\Omega$ /m)	Grad 1	
Coupling attenuation	Typ 1	
Segregation classification	d	

## Transmission properties (at 20°C)

Has been verified as being compliant with the standards.

Order No.	Standard designation	Scope of delivery	Copper content kg/km
L02002A0190	Li-02YSCY 4x2x0,66 PiMF PVC	500 m disposable wooden drum	48

<b>Drum dimensions for</b>	<b>L02002A0190:</b>
Drum Type	wooden
Flange outer diameter d1	600 mm
Flange inner diameter d2	150 mm
Central hole / core hole	56 mm
Overall width	420 mm
Winding width	404 mm