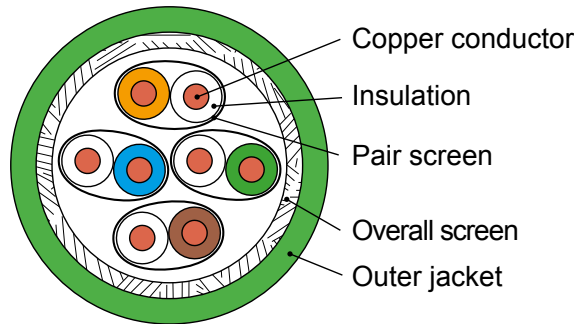


Installation Cable STX 900 S/FTP AWG23/1 Cat.7



Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T;
IEEE 802.5: 16MB; ISDN; TPDDI; ATM

Standards

DIN EN 50173-1; EN 50288-4-1; ISO/IEC 11801; IEC 61156-5; EIA/TIA 568-C.2

Flame resistance

IEC 60332-1; IEC 60754-2; IEC 61034

Construction

Conductor	Bare copper wire, Ø 0,56 mm (AWG23/1)
Insulation	Foam skin Polyethylene, Ø 1,4 mm
Twisting	2 cores to the pair
Pair screen	Aluminium-laminated plastic foil
Cable lay up	4 pairs (PiMF)
Overall screen	Copper braid, tinned
Outer jacket	PUR, green RAL 6018, oil resistant
Cable marking: black	TELEGÄRTNER STX 900 S/FTP 4x2xAWG23/1 PUR Cat.7 ISO/IEC 11801 „production batch no.“ „sequential length in meters“

Mechanical properties

Bending radius	≥ 60 mm installation ≥ 30 mm installed
Temperature range	during operation: -30 °C up to +75 °C during installation: -5 °C up to +50 °C

Electrical properties

at 20°C ± 5°C

Loop resistance	≤ 150 Ω/km	
Resistance unbalance	≤ 2%	
Insulation resistance (500V)	≥ 5000 MΩxkm	
Mutual capacitance (at 800 Hz)	nom. 43 nF/Km	
Capacitance unbalance (pair/ground)	≤ 1500 pF/km	
Characteristic impedance	(1-100 MHz)	(100 ± 5) Ω
	(100-250 MHz)	(100 ± 10) Ω
	(250-600 MHz)	(100 ± 15) Ω

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Nominal velocity of propagation	ca. 79%			
Propagation delay	≤ 425 ns/100m			
Delay skew	≤ 9 ns/100m			
Test voltage (DC, 1min) (core/core and core/screen)	1000 V			
Transfer impedance (mΩ/m)	at: 1 MHz	10 MHz	30 MHz	100 MHz
	≤ 5	≤ 5	≤ 10	≤ 20
Coupling attenuation	≥ 85 dB			

Transmission properties (nominal)

at 20°C ± 5°C

have been verified as being compliant with the standards.

Order Nr.	Standard designation	Scope of delivery	Outer diameter mm	Weight kg/km	Fire load		Copper content	Tensile force N
					MJ/km	kWh/m		
L02002A0143	J-02YSC11Y 4x2x0,56 PiMF PUR	500 m drum	7,5	92	1183	0,33	38	340