



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 1,38 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	FRNC, grey RAL 7035
Cable marking: black	Telegärtner AMJ 900 S/FTP 4x2xAWG23/1 FRNC Cat.7 ISO/IEC 11801 „production batch no.“ „sequential length in meters“ Telegärtner AMJ 900 S/FTP 2x(4x2xAWG23/1) FRNC 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: -20 °C up to +60 °C during installation: 0 °C up to +50 °C

Electrical properties

at 20°C ± 5°C

Loop resistance	≤ 165 Ω/km
Resistance unbalance	≤ 2%
Insulation resistance (500V)	≥ 2000 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

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



Nominal velocity of propagation	ca. 79%			
Propagation delay	≤ 427 ns/100m			
Delay skew	≤ 12 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
	≤ 20	≤ 30	≤ 40	≤ 200
Coupling attenuation	≥ 75 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		
L02002A0120	J-02YSCH 4x2x0,56 PiMF FRNC	1000m drum	7,3	54,5	590	0,170	26	110
L02002A0121	J-02YSCH 2x (4x2x0,56) PiMF FRNC	500m drum	7,2/15,0	109,2	1190	0,345	52	220