



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

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	PE, black, UV stable
Cable marking: white	TELEGÄRTNER AMJ 1000 Outdoor S/FTP 4x2xAWG23/1 PE Cat.7 ISO/IEC 11801 NVP 79% „production batch no.“ „sequential length in meters“

Mechanical properties

Bending radius	≥ 80 mm installation ≥ 40 mm installed
Temperature range	during operation: -55 °C up to +60 °C during installation: -20 °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

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



Nominal velocity of propagation	ca. 79%
Propagation delay	≤ 422 ns/100m
Delay skew	≤ 12 ns/100m
Test voltage (DC, 1min) (core/core and core/screen)	1000 V
Transfer impedance (mΩ/m)	Grade 1
Coupling attenuation	Type 1
Segregation classification	„d“ acc. to EN 50174-2 table 3

Transmission properties (nominal)

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	Copper content	Tensile force N
L02002A0146	A-02YSC2Y 4x2x0,56 PiMF PE	500m drum	7,7+0,3	56	38	150