



Application

IEC 11801-1:	Class F
EN 50173-1:	Class F
IEEE 802.3:	10Base-T; 100Base-T; 1000Base-T; 10GBase-T
IEEE 802.3:	Power over Ethernet PoE; PoE+

Applicable Standards

Design specification:	EN 50288-4-1, EN 50174-2, IEC 14763-2, IEC 61156-5; EN 50575+A1
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Fire behaviour

Euroclass:	Fca
Smoke production:	-
Flaming droplets:	-
Acidity:	-
Flame retardant:	-
Halogen free:	IEC 60754-2
Smoke density:	-

Construction

Construction:	S/FTP
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, conducting side outward
Cable lay up:	4 pairs (PiMF)
Overall screen:	Copper braid, tinned
Outer jacket:	PE, black
Cable marking white :	Telegärtner AMJ 1000 S/FTP 4x2xAWG23/1 Cat.7 PE Fca NVP 79% „production batch no“ „sequential length in meters“

Mechanical properties

Outer diameter:	7,7 ± 0,3 mm
Bending radius:	during operation: ≥ 40 mm during installation: ≥ 80 mm
Tencile force:	max. 150 N
Weight:	56 kg/km

Environment and Security

Temperature range:	during operation: -55 °C to +60 °C during installation: -20 °C to +50 °C
Fire load:	max. 631 MJ/km
UV resistance:	UV-resistant acc. to IEC 60068-2-5

Installation Cable

AMJ 1000 S/FTP AWG23/1 Cat.7 PE Fca



Electrical properties (typical at 20°C)

Characteristic impedance \underline{Z} (1-100 MHz):	100 ± 5 Ω
Nominal velocity of propagation NVP:	ca. 79%
Propagation delay:	≤ 427 ns/100m
Delay skew:	≤ 12 ns/100m
Loop resistance:	≤ 16,5 Ω/100m
Resistance unbalance:	pair: ≤ 2%
	between the pairs: ≤ 4%
Insulation resistance (500V):	≥ 200 MΩx100m
Nominal capacity (at 800 Hz):	< 4,3 nF/100m
Capacitance unbalance (pair/ground):	≤ 150 pF/100m
Test voltage (DC, 60 sec.) (core/core und core/screen):	1000 V
Transfer impedance (mΩ/m):	Grade 1
Coupling attenuation:	Type 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
L02002A0146	A-02YSC2Y 4x2x0,56 PIMF PE	500 m wooden drum (plywood)	38

Drum dimensions for:	L02002A0146
Drum Type:	wooden drum (plywood)
Flange outer diameter d1:	600 mm
Flange inner diameter d2:	200 mm
Central hole / core hole:	75,5 mm
Overall width:	330 mm
Winding width:	310 mm

The editions of the afore mentioned standards by the time of 2.05.2017 are valid.