



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+; 4PPoE

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:	IEC 60332-1
Halogen free:	IEC 60754-2
Smoke density:	IEC 61034

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:	PUR, green RAL 6018
Cable marking white:	Telegärtner STX 900 S/FTP 4x2xAWG23/1 Cat.7 PUR Fca NVP 79% „production batch no“ „sequential length in meters“

Mechanical properties

Outer diameter:	7.5 ± 0.3 mm
Bending radius:	during operation: ≥ 30 mm during installation: ≥ 60 mm
Tensile force:	max. 340 N
Weight:	92 kg/km

Environment and Security

Temperature range:	during operation: -30 °C to +75 °C during installation: -5 °C to +50 °C
Fire load:	max. 1183 MJ/km
UV resistance:	UV-resistant acc. to IEC 60068-2-5
Oil resistance:	Oil-resistant acc. to VDE 0282-2 (mineral oil IRM 902 acc. ISO 1817)

Electrical properties (typical at 20°C)

Characteristic impedance Z_c (1-100 MHz):	100 ± 5 Ω	
Nominal velocity of propagation NVP:	ca. 79%	
Propagation delay:	≤ 425 ns/100m	
Delay skew:	≤ 9 ns/100m	
Loop resistance:	14.2 Ω/100m max. 15 Ω/100m	
Resistance unbalance:	pair:	≤ 2%
	between the pairs:	≤ 4%
Insulation resistance (500V):	≥ 500 MΩx100m	
Mutual capacitance (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. old / new	Standard designation	Scope of delivery	Copper content kg/km
L02002A0143T / 100033540	J-02YSC11Y 4x2x0,56 PiMF PUR	500 m wooden drum (plywood)	38

Drum dimensions for: **L02002A0143T / 100033540**

Drum Type:	wooden drum (plywood)
Flange diameter d1:	400 mm
Core diameter d2:	150 mm
Central hole:	75.5 mm
Overall width:	345 mm
Winding width:	330 mm
Drum/EPAL:	18

The editions of the afore mentioned standards by the time of 08.04.2021 are valid.