

Application

IEC 11801-1:	Class F _A
EN 50173-1:	Class F _A
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 50288-9-1, EN 50174-2, IEC 14763-2, IEC 61156-5; EN 50575+A1
-----------------------	--

Brandverhalten

Euroclass:	Dca
Smoke production:	s1
Flaming droplets:	d1
Acidity:	a1
Flame retardant:	IEC 60332-1
Halogen free:	IEC 60754-2
Smoke density:	IEC 61034

Construction

Construction:	S/FTP
Conductor:	Bare copper wire Ø 0.57 mm (AWG23/1)
Insulation:	Foam skin Polyethylene, Ø 1.45 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; coverage ≥40%
Outer jacket:	LSZH, blue RAL 5015
Ripcord:	Nylon ripcord under jacket
Cable marking black:	Telegärtner AMJ 1000 S/FTP 2x(4x2xAWG23/1) Cat.7 LSZH Dca-s1,d1,a1 NVP 78% „production batch no“ „sequential length in meters“   

Mechanical properties

Outer diameter:	15.6 ± 0.5 mm	
Bending radius:	during operation:	≥ 32 mm
	during installation:	≥ 64 mm
Tensile force:	max. 170 N	
Weight:	110 kg/km	

Environment and Security

Temperature range:	during operation:	-30 °C to +60 °C
	during installation:	0 °C to +50 °C
Fire load:	1000 MJ/km	

Installation Cable

AMJ 1000 S/FTP AWG23/1 Cat.7 LSZH Dca-s1,d1,a1



Electrical properties (typical at 20°C)

Characteristic impedance \underline{Z} (1-100 MHz):	100 ± 15 Ω	
Nominal velocity of propagation NVP:	ca. 78%	
Propagation delay:	≤ 427 ns/100m	
Delay skew:	≤ 25 ns/100m	
Loop resistance:	13.9 Ω/100m max. 19 Ω/100m	
Resistance unbalance:	pair:	≤ 2%
	between the pairs:	≤ 4%
Insulation resistance (500V):	≥ 500 MΩx100m	
Nominal capacity (at 800 Hz):	< 5.6 nF/100m	
Capacitance unbalance (pair/ground):	≤ 160 pF/100m	
Test voltage (DC, 2 sec.) (core/core und core/screen):	2500 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.

Transmission properties

Typical values

Frequency	1*	4	10	16	31.2	62.5	100	125	200	250	300	600	1000*	MHz
Attenuation	1.8	3.4	5.5	6.9	9.7	13.9	17.7	19.9	25.6	28.8	31.8	46.6	62.2	dB/100m
NEXT	103	100	98	97	95	94	93	92	91	90	90	89	88	dB/100m
PS NEXT	100	97	95	94	92	91	90	89	88	87	87	86	85	dB/100m
ACR	101	97	92	90	85	80	75	72	65	61	58	42	26	dB/100m
PS ACR	98	94	89	87	82	77	72	69	64	58	55	39	23	dB/100m
ACR-F	95	94	93	91	90	87	85	83	77	74	74	60	50	dB/100m
PS ACR-F	92	91	92	88	87	84	82	80	74	71	71	57	47	dB/100m
Return Loss	27	30	32	32	32	32	32	31	30	25	25	23	21	dB/100m

* Values are for information only.

Order No. old / new	Standard designation	Scope of delivery	Copper content kg/km
L02002A0182B / 100027779	J-02YSCH 2x(4x2x0,57) PiMF LSZH	500 m disposable wooden drum	53.2

Drum dimensions for: **L02002A0182B / 100027779**

Drum type:	wooden drum (disposable)
Flange diameter d1:	600 mm
Core diameter d2:	259 mm
Central hole:	80 mm
Overall width:	316 mm
Winding width:	300 mm
Drum/EPAL:	6

The editions of the afore mentioned standards by the time of 12.04.2021 are valid.