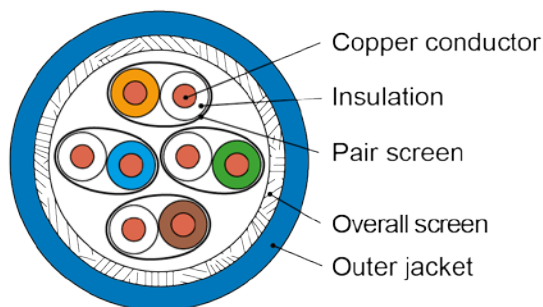


Installation Cable AMJ 2000 S/FTP AWG23/1 Cat.8.2 LSZH Dca-s2,d1,a1



Application

IEC 11801-1:	Class I (30m Channel)
EN 50173-1:	Class I (30m Channel), Class F _A
IEEE 802.3:	10Base-T; 100Base-T; 1000Base-T; 10GBase-T; 25GBase-T; 40GBase-T
IEEE 802.3:	Power over Ethernet PoE; PoE+

Applicable Standards

Design specification:	EN 50288-12-1, EN 50174-2, IEC 14763-2, IEC 61156-5; EN 50575+A1
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Fire behaviour

Euroclas:	Dca
Smoke production:	s2
Acidity:	a1
Flaming droplets:	d1
Flame retardant:	IEC 60332-3-24
Halogen free:	IEC 60754-2
Smoke density:	IEC 61034

Construction

Construction:	S/FTP
Conductor:	Bare copper wire Ø 0,59 mm (AWG23/1)
Insulation:	Foam skin Polyethylene, Ø 1,6 mm
Verseilung:	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 5012
Cable marking black:	Telegartner AMJ 2000 S/FTP 4x2xAWG23/1 Cat.8.2 LSZH Dca-s2,d1,a1 NVP 75% „production batch no“ „sequential length in meters“

Mechanical properties

Outer diameter:	8,1 ± 0,3 mm
Bending radius:	during operation: ≥ 32 mm during installation: ≥ 64 mm
Tencile force:	max. 105 N
Weight:	67 kg/km

Environment and Security

Temperature range:	during operation: -20 °C to +60 °C during installation: 0 °C to +50 °C
Fire load:	max. 720 MJ/km

Installation Cable

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Electrical properties (typical at 20°C)

Characteristic impedance Z (1-100 MHz):	100 ± 5 Ω	
Nominal velocity of propagation NVP:	ca. 75%	
Propagation delay:	444 ns/100m	
Delay skew:	≤ 25 ns/100m	
Loop resistance:	13,5 Ω/100m	
Resistance unbalance:	pair:	≤ 2%
	between the pairs:	≤ 4%
Insulation resistance (500V):	≥ 500 MΩx100m	
Nominal capacity (at 800 Hz):	4,4 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 2	
Coupling attenuation:	Type II	
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	100	250	500	600	1000	1600	2000	MHz
Attenuation	0,54	0,95	1,5	5,0	8,0	11,3	12,5	16,3	21,0	23,5	dB/30m
NEXT	103	103	103	103	97	95	94	90	85	80	dB/30m
PS NEXT	100	100	100	100	94	92	91	77	82	77	dB/30m
ACR	102	102	101	98	89	84	80	74	64	56	dB/30m
PS ACR	99	99	99	95	86	81	77	71	61	53	dB/30m
ACR-F	100	100	100	95	92	89	87	78	72	70	dB/30m
PS ACR-F	97	97	97	91	89	86	84	75	69	67	dB/30m
Return Loss	28	30	30	30	28	26	25	23	20	18	dB/30m

* Values are for information only.

Order No.	Standard designation	Scope of delivery	Copper content kg/km
L02002A0277	J-02YSCH 4x2x0,59 PiMF LSZH	1000 m Disposable wooden drum	33,2

The editions of the afore mentioned standards by the time of 10.07.2018 are valid.