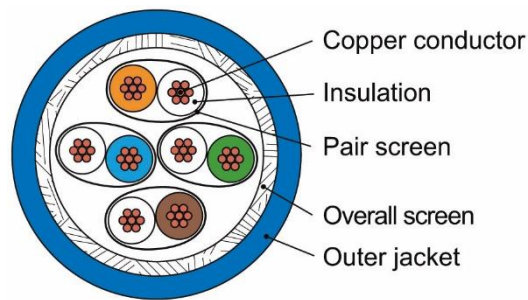


Patch Cable

S/FTP AWG26/7 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+; 4PPoE




Applicable Standards

Design specification:	prEN 50288-12-2, 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 60332-1-2
Halogen free:	IEC 60754-1/-2
Smoke density:	IEC 61034-1/-2

Construction

Construction:	S/FTP
Conductor:	Bare copper wire Ø 0.41 mm (AWG26/7)
Insulation:	Foam skin Polyethylene, Ø 0.99 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 ≥48%
Outer jacket:	LSZH, blue RAL 5012
Cable marking black:	Telegartner S/FTP 4x2xAWG26/7 Cat.8.2 Patch Cable LSZH Dca-s2,d1,a1 NVP 78% „production batch no“ „sequential length in meters“   

Mechanical properties

Outer diameter:	5.8 ± 0.3 mm	
Bending radius:	during operation:	≥ 20 mm
	during installation:	≥ 40 mm
Tensile force:	max. 56 N	
Weight:	39.6 kg/km	

Environment and Security

Temperature range:	during operation:	-20 °C to +60 °C
	during installation:	0 °C to +50 °C
Fire load:	380 MJ/km	

Patch Cable

S/FTP AWG26/7 Cat.8.2 LSZH Dca-s2,d1,a1



Electrical properties (typical at 20°C)

Characteristic impedance Z (1-100 MHz):	100 ± 5 Ω	
Nominal velocity of propagation NVP:	ca. 78%	
Propagation delay:	≤ 570 ns/100m	
Delay skew:	4 ns/100m	
Loop resistance:	27 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):	≤ 120 pF/100m	
Test voltage (DC, 2 sec.) (core/core und core/screen):	2500 V	
Transfer impedance (mΩ/m):	Grade 2	
Coupling attenuation:	Type I	
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	0.26	0.5	0.77	2.56	4.1	5.9	6.5	8.5	10.8	12.2	dB/10m
NEXT	103	103	103	103	95	95	94	90	85	80	dB/10m
PS NEXT	100	100	100	100	92	92	91	77	82	77	dB/10m
ACR	102	102	102	100	91	89	87	81	74	67	dB/10m
PS ACR	99	99	99	97	88	86	84	78	71	64	dB/10m
ACR-F	100	100	100	100	91	89	87	81	74	67	dB/10m
PS ACR-F	97	97	97	97	88	86	84	78	71	64	dB/10m
Return Loss	28	30	30	30	28	26	25	23	20	18	dB/10m

Order No. old / new	Standard designation	Scope of delivery	Copper content kg/km
L02002A0279 / 100013195	J-02YSCH 4x2x0,41 PiMF LSZH	1000 m Disposable wooden drum	18.1

Drum dimensions for: L02002A0279 / 100013195

Drum type:	wooden drum (disposable)
Flange diameter d1:	500 mm
Core diameter d2:	150 mm
Central hole:	75 mm
Overall width:	436 mm
Winding width:	480 mm
Drum/EPAL:	12

The editions of the afore mentioned standards by the time of 09.04.2021 are valid.