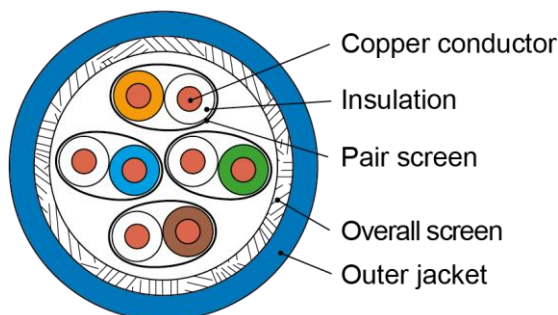


# Installation Cable AMJ 1400 S/FTP AWG22/1 Cat.7<sub>A</sub> LSZH Cca-s1a,d1,a1



## Application

IEC 11801-1:	Class F <sub>A</sub>
EN 50173-1:	Class F <sub>A</sub>
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
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## Fire behaviour

Euroclas:	Cca
Smoke production:	s1a
Flaming droplets:	d1
Acidity:	a1
Flame retardant:	IEC 60332-1
Halogen free:	IEC 60754-1/2
Smoke density:	> 60% acc. to IEC 61034-1/2

## Construction

Construction:	S/FTP
Conductor:	Bare copper wire Ø 0.64 mm (AWG22/1)
Insulation:	Foam skin Polyethylene, Ø 1.5 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 ≥50%
Outer jacket:	LSZH, blue RAL 5015
Ripcord:	Nylon ripcord under jacket
Cable marking black:	Telegärtner AMJ 1400 S/FTP 4x2xAWG22/1 Cat.7 <sub>A</sub> LSZH Cca-s1a,d1,a1 NVP 73% „production batch no“ „sequential length in meters“

## Mechanical properties

Outer diameter:	8.1 ± 0.3 mm
Bending radius:	during operation: ≥ 33 mm during installation: ≥ 65 mm
Tensile force:	max. 105 N
Weight:	70 kg/km

## Environment and Security

Temperature range:	during operation: -30 °C to +60 °C during installation: 0 °C to +50 °C
Fire load:	700 MJ/km

# Installation Cable

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### Electrical properties (typical at 20°C)

Characteristic impedance $\underline{Z}$ (1-100 MHz):	100 ± 15 Ω	
Nominal velocity of propagation NVP:	ca. 73%	
Propagation delay:	≤ 457 ns/100m	
Delay skew:	≤ 25 ns/100m	
Loop resistance:	10.9 Ω/100m max. 19 Ω/100m	
Resistance unbalance:	pair:	≤ 2%
	between the pairs:	≤ 4%
Insulation resistance (500V):	≥ 500 MΩx100m	
Mutual capacitance (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	250	500	600	1000	1200	1400*	MHz
Attenuation	1.8	3.3	5.3	6.7	9.3	13.4	17.1	27.0	39.4	43.3	57.7	63.9	69	dB/100m
NEXT	103	100	98	97	95	94	93	91	90	89	88	87	85	dB/100m
PS NEXT	100	97	95	94	92	91	90	88	87	86	85	84	83	dB/100m
ACR	101	97	93	91	85	81	76	64	51	46	30	23	16	dB/100m
PS ACR	98	94	90	88	82	78	73	61	48	43	27	20	13	dB/100m
ACR-F	95	94	93	91	90	87	85	71	65	60	45	40	35	dB/100m
PS ACR-F	92	91	90	88	87	84	82	68	62	57	42	39	32	dB/100m
Return Loss	27	30	32	32	35	33	32	27	23	23	19	18	17	dB/100m

\* Values are for information only.

Order No. old / new	Standard designation	Scope of delivery	Copper content kg/km
L02002A0295 / 100028020	J-02YSCH 4x2x0,64 PiMF LSZH	1000 m disposable wooden drum	34.1

<b>Drum dimension for</b>	<b>L02002A0295 / 100028020</b>
Drum type:	wooden drum (disposable)
Flange diameter d1:	600 mm
Core diameter d2:	259 mm
Central hole:	80 mm
Overall width:	446 mm
Winding width:	430 mm
Drum/EPAL:	4

The editions of the afore mentioned standards by the time of 07.04.2021 are valid.