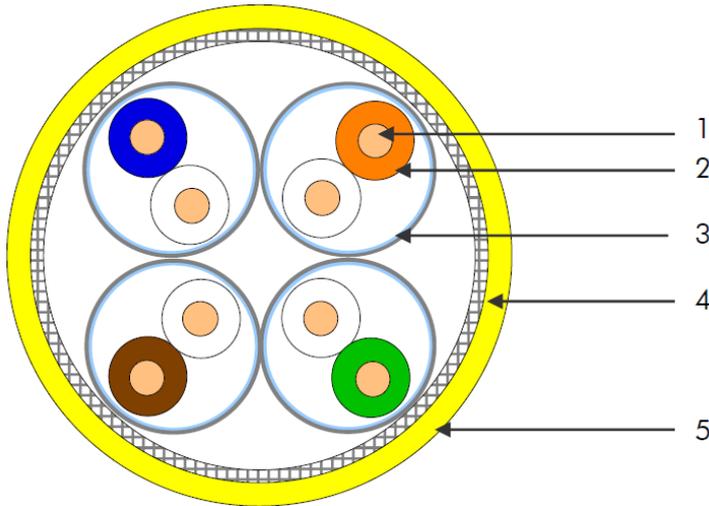


Installation cable Cat.7A S/FTP 4PR LSFRZH CPR Class DCA 1200 MHz



CONSTRUCTION:

- 1 – Conductor**
Material: solid bare annealed copper.
Nominal diameter: 23 AWG/0,56 mm
- 2 – Insulation**
Material: Foam skin polyethylene.
Nominal diameter: 1.4 mm.
stranded wires
Pair: 2, twisted insulated conductors.
Number of pairs: 4, all twisted together.
- 3 – Individual screen:** aluminum / polyester tape.
- 4– Screen:** Tinned copper braid
- 5 – Outer sheath**
Material: LSFRZH.
Color: yellow (RAL 1021)

STANDARDS

ISO/IEC 11801
EN 50173
IEC61156-5
EN 50288-9-1
IEC 60332-1-2
IEC 60754-1/2
IEC 61034-1/2

SUPPORTED APPLICATIONS

100BASE-T
1000BASE-T
2,5GBase-T
5GBase-T
10GBASE-T
Power over Ethernet

ORDERING

XS1451046321– Reel 500m

MECHANICAL CHARACTERISTICS

Min bending radius without a load	4 x D	mm
Min bending radius with a load	8 x D	mm
Max. tensile force	110	N
Weight	59	kg/km
Copper content	29	kg/km
Outer diameter	7.8	mm
Wire diameter	23	AWG

ELECTRICAL CHARACTERISTICS @ 20°C

Loop resistance	135	Ω/km
Max resistance unbalance	2	%
Min. insulation resistance (500V)	5000	MΩ*km

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Nom. mutual capacitance @800Hz	43	nF/km
Max capacitance unbalance	1500	pF/km
Nominal velocity of propagation NVP	76	%
Max propagation delay	439	ns/100m
Max delay skew	12	ns/100m
Test voltage	1000	V
Mean characteristic impedance @ 100 MHz	100 ± 5	Ω
Max Transfer impedance @ 1 MHz	12	mΩ/m
@ 10 MHz	10	mΩ/m
@ 30 MHz	30	mΩ/m
Segregation classification acc. EN 50174-2	D	-
Min coupling attenuation	80	dB

ENVIRONMENTAL CHARACTERISTICS

Temperature range during storage	-20 to +60	°C
Temperature range during operation	-20 to +60	°C
Temperature range during installation	0 to +50	°C

FIRE REACTION

Fire load	595	MJ/km
Jacket material	LSFRZH zgodnie z: IEC 60332-1-2, IEC 60754-1/2; IEC 61034-1/2	
Euroclass acc. CPR (EN 50575)	D_{CA-S2,d1,a1}; DWU 00123P	

NOMINALNE CHARAKTERYSTYKI TRANSMISYJNE

Frequency	Attenuation	NEXT	PS-NEXT	ACR	PS-ACR	ACR-F	PS-ACR-F	RL
MHz	dB/100m	dB	dB	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m
1,0	1,8	100	97	98	95	105	103	20
4,0	3,4	100	97	97	94	93	91	23
10,0	5,4	100	97	95	92	85	83	25
16,0	6,8	100	97	93	90	81	79	25
20,0	7,7	100	97	92	89	79	77	25
31,2	9,6	100	97	90	87	75	73	24
62,5	13,7	100	97	86	83	69	67	22
100,0	17,4	100	97	83	80	65	63	20
125,0	18,6	95	92	76	73	63	61	19
155,5	19,5	95	92	75	69	61	59	19
175,0	22,1	92	89	70	67	60	58	18
200,0	25,0	92	89	67	64	59	57	18
250,0	28,1	90	87	62	59	57	55	17
300,0	30,9	89	86	58	55	55	53	17
450,0	37,4	87	84	50	47	52	50	17
600,0	44,8	85	82	40	37	49	47	17
1000,0	58,4	82	79	24	21	45	43	17
*1200,0	65,2	82	79	17	17	43	41	15

* Informative only.

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Type:	Installation cable	06.03.2020
	S/FTP Cat.7A 4PR LSFRZH 1200 MHz	REV: 0
Ref:	XS1451046321	P

CABLE MARKING

FIBRAIN DATA CABLE CAT7A S/FTP 4PR 23 AWG 1200MHZ NVP 79% LSFRZH CPR CLASS Dca ISO/IEC11801 EN50173 ANSI/TIA/568.2-D JJJJ XS1451046321 OFRRRRRR . XXXXX M

Where

- JJJJ:** production year
- OFRRRRRR:** manufacturer order
- XXXXX:** length

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