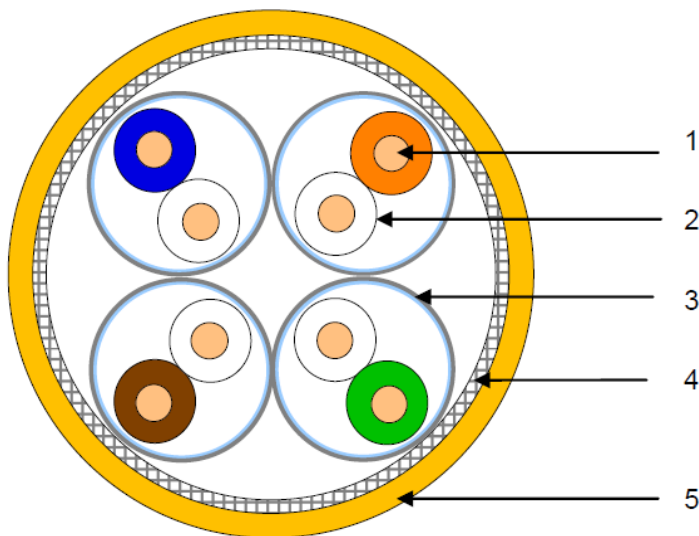


Installation cable Cat.7 S/FTP 4PR LSFRZH CPR Class DCA 900 MHz



FIBRAIN DATA CABLE CAT7 S/FTP 23 AWG 900MHZ LSFRZH CPR CLASS Dca



CONSTRUCTION:

- 1 – Conductor**
Material: solid bare annealed copper.
Nominal diameter: 23 AWG/0,56 mm
- 2 – Insulation**
Material: Foam skin polyethylene.
Nominal diameter: 1.38 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: orange (RAL 2003)

STANDARDS

ISO/IEC 11801
EN 50173
IEC 61156-5
EN 50288-4-1
IEC 60332-3-24
IEC 60754-1/2
IEC 61034-1/2

SUPPORTED APPLICATIONS

100BASE-T
1000BASE-T
2,5GBase-T
5GBase-T
10GBase-T
25GBase-T
40GBase-T
Power over Ethernet

ORDERING

XX1441046321 – 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	54,5	kg/km
Copper content	26	kg/km
Outer diameter	7.3	mm
Wire diameter	23	AWG

ELECTRICAL CHARACTERISTICS @ 20°C

Loop resistance	165	Ω/km
Max resistance unbalance	2	%
Min. insulation resistance (500V)	2000	MΩ*km

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Nom. mutual capacitance @800Hz	43	nF/km
Max capacitance unbalance	1600	pF/km
Nominal velocity of propagation NVP	79	%
Max propagation delay	427	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	590	MJ/km
Jacket material	LSFRZH acc: IEC 60332-1-2, IEC 60754-1/2; IEC 61034-1/2	
Euroclass acc. CPR (EN 50575)	D_{CA-s2,d1,a1}; DWU 00122P	

NOMINAL TRANSMISSION CHARACTERISTICS

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
1,0	1,8	100	97	98	95	105	105	-
4,0	3,4	100	97	97	94	105	102	27
10,0	5,4	100	97	95	92	97	94	30
16,0	6,8	100	97	93	90	93	90	30
20,0	7,7	100	97	92	89	91	88	30
31,2	9,6	100	97	90	87	87	84	30
62,5	13,7	100	97	86	83	81	78	30
100,0	17,4	100	97	83	80	77	74	30
125,0	19,5	95	92	75	72	75	72	26
155,5	21,9	94	91	72	69	73	70	26
175,0	23,3	93	90	70	67	72	69	25
200,0	25,0	92	89	67	64	71	68	25
250,0	28,1	90	87	62	59	69	66	24
300,0	30,9	89	86	58	55	67	64	24
450,0	38,3	87	84	48	45	64	61	23
600,0	44,8	85	82	40	37	61	58	22
*750,0	52,0	83	80	31	28	59	56	21
*900,0	59,4	82	79	23	20	58	55	20
*1000,0	63,1	80	77	17	14	57	54	20

* Informative only.

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Type:	Installation cable	06.03.2020
	S/FTP Cat.7 4PR LSFRZH 900 MHz	REV: 0
Ref:	XX1441046321	P

CABLE MARKING

FIBRAINDATA CABLE CAT7 S/FTP 4PR 23 AWG 900MHZ NVP 79% LSFRZH CPR CLASS Dca ISO/IEC11801 EN50173 ANSI/TIA/568.2-D JJJJ XX1441046321 OFRRRRRR . XXXXX M

Where

JJJJ: production year
OFRRRRRR: manufacturer order
XXXXX: length

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