

Technical data

Maximum Free Suspension Length m	Maximum Travel Height (approx.) m	Maximum Travelling Speed m/s	Cable Dimensions		Standard Length m
			W	H	
			(approx.) mm		
45	60	4,0	27,5 ± 0,5	8,4 ± 0,2	500

Min. Bending Radius Static x cable height	Natural loop (Static Flexibility) mm	Operating Temp. Min. °C	Operating Temp. Max. °C	Standards	Rec. Suspension Device	Cable Net Weight (approx.) kg/km
10,0	520	-15,0	60,0	Similar to EN 50214	FCSD-2	270,0

Notes

REV 20190614

ANNEX CAT7001

S/FTP patch cable

Application

Work area and patch cord cable
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
Power over Ethernet (PoE) / PoE+

Standards

EN 50173-1; EN 50288-4-2; ISO/IEC 11801; IEC 61156-6; IEEE 802.3af

Flame resistance

LSHF (FRNC)	IEC 60332-1; IEC 60754-2; IEC 61034
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Construction

Conductor	stranded bare copper wire $\varnothing$ 0.48 mm (AWG 26/7)
Insulation	Foam Skin Polyethylene, $\varnothing$ 1.0 mm
Twisting	2 cores to the pair
Pair screen	Al-laminated plastic foil
Cable lay up	4 pairs (PiMF) to the core
Screen	Copper braid, tinned
Sheath	LSHF, color see "Technical data"

Mechanical properties

Bending radius	without load	≥ 25 mm
	with load	≥ 50 mm

Electrical properties

at 20°C $\pm$ 5°C

Loop resistance		250 Ω /km
Resistance unbalance		$\leq 3\%$
Insulation resistance	(500 V)	≥ 2000 M Ω *km
Mutual capacitance	at 800 Hz	Nom. 43 nF/km
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km
Mean characteristic impedance	at 100 MHz	100 $\pm$ 5 Ω
Nominal velocity of propagation		approx. 79 %
Propagation delay		460 ns/100m
Delay skew		12 ns/100m
Test voltage	(DC, 1 min) core/core and core/screen	1000 V
Transfer impedance	at 1 MHz	25 m Ω /m
	at 10 MHz	25 m Ω /m
Coupling attenuation		80 dB

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Electrical data (nominal)

acc. to Cat.7 (at 20°C)

F (MHz)	Attenuation (dB / 100m)	NEXT (dB)	ACR (dB / 100m)	Return loss (dB)	PS-NEXT (dB)	PS-ACR (dB / 100m)	ACRF (dB / 100m)	PS-ACRF (dB / 100m)
1	3	100	97	-	97	94	90	87
4	6	100	95	27	97	92	90	87
10	8	100	92	28	97	89	84	81
16	10	100	90	28	97	87	80	77
20	11	97	86	28	94	83	80	77
31	14	95	81	28	92	78	75	72
63	20	95	75	28	92	72	73	70
100	26	95	69	28	92	66	66	63
155	32	94	62	26	91	59	62	59
200	37	93	56	25	90	53	56	53
250	41	93	52	25	90	49	53	50
300	47	92	45	23	89	42	45	42
600	68	90	22	20	87	19	39	36
750	77	85	8	18	82	5	-	-
900	88	83	-5	17	80	-8	-	-
1000	95	80	-15	17	77	-18	-	-

Technical data

Color	Outer diameter mm	Tensile force N
grey	5,9	100