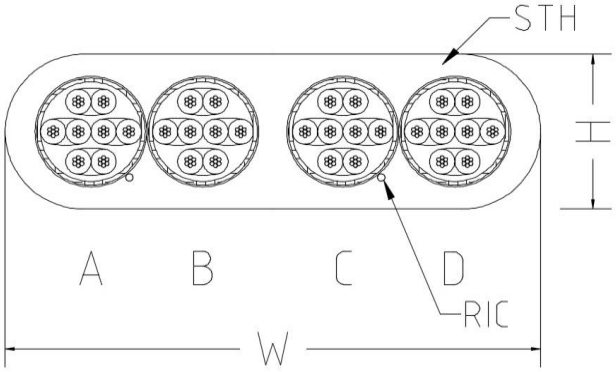
FLi-2YS(ST)(C)H 4xCAT7

flat elevator travelling cable | material code 20168027



Construction

A, B, C, D	**Ethernet cable**	CAT7 ethernet S/FTP patch cable max. channel length 60 m for details see annex CAT7001
RIC	**Ripcord**	for removing sheath material
	Separation	talcum for elements - sheath separation
STH	**Sheath**	special low smoke halogen free flame retardant thermoplastic compound black similar to RAL9005 surface with knurling

Elements identification

Strand	Cores, color codes and numbers	Description
A, B, C, D	1xCAT7	grey sheath

Cable marking

FLi-2YS(ST)(C)H 4xCAT7 *order number* I *meter mark* Made in EU

Repeated without meter mark in half of meter

Application

Flat, flexible travelling cable for use in passenger and goods lifts (elevators).

Technical data

Maximum Free Suspension Length m	Maximum Travel Height (approx.) m	Maximum Travelling Speed m/s	Cable Dimensions (approx.) mm W	Cable Dimensions (approx.) mm H	Standard Length m
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. Suspen-sion Device	Cable Net Weight (approx.) kg/km
10,0	660	-15,0	60,0	Similar to EN 50214	FCSD-2	260,0

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

Construction

Conductor	stranded bare copper wire Ø 0.48 mm (AWG 26/7)
Insulation	Foam Skin Polyethylene, Ø 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± 5°C

Loop resistance		250Ω/km
Resistance unbalance		≤ 3%
Insulation resistance	(500 V)	≥ 2000 MΩ*km
Mutual capacitance	at 800 Hz	Nom. 43 nF/km
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km
Mean characteristic impedance	at 100 MHz	100 ± 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 mΩ/m
	at 10 MHz	25 mΩ/m
Coupling attenuation		80 dB

ANNEX CAT7001

S/FTP patch cable

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	Tensile force
-	mm	N
grey	5,9	100