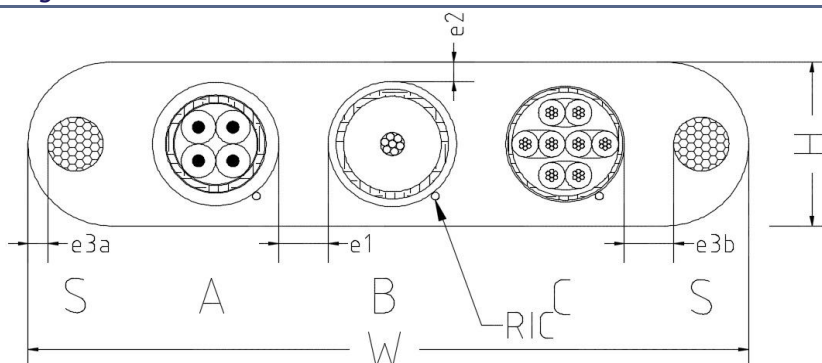


LIFTSCREEN-VIDEO-CAN

flat elevator travelling cable

material code

20133797



Construction

A	CAN-BUS	characteristic impedance 120 Ohm for details see annex	CANBUS1
B	Coaxial cable	characteristic impedance 75 Ohm for details see annex	COAX001
C	Ethernet cable	CAT7 S/FTP patch cable max. channel length 60 m for details see annex	CAT7001
S	Strain bearing member	zinc coated steel wire rope 2,8 mm	
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	1xCAT7	grey sheath
B	1xCX	blue sheath
C	1xCANBUS, WH+BN; GN+YE	black sheath; white+brown; green+yellow

Cable marking

DRAKA 07 LIFTSCREEN-VIDEO-CAN-CABLE HFFR WW/YY meter mark I

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	W	Cable Dimensions				Standard Length m
				H (approx.) mm	e1	e2	e3	
80	160	6	32,0 ± 2,0	8,5 ± 0,4	2,5	1,0	1,0/2,5	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
20,0	900	-15,0	70,0	Similar to EN 50214	FCDS-S	410,0

Notes

Alternative hanging allowed acc. to ST-VM-R&D-01-18

REV 20180503

ANNEX CAT7001

S/FTP patch cable

Application

Work area and patch cord cable
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Standards

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

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

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	58	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

ANNEX COAX001

1.2L/4.95 AF Video Cable 75 Ω

Application

Video cables are primary used in closed circuit TV systems and in several studio applications for transmission of image signals.

Standards

SMPTE 259, SMPTE 292

Flame resistance

LSHF (FRNC)	FRNC-C: 60332-1, 60332-3-24
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Construction

Inner conductor	stranded copper wires, bare, diameter 1.2 mm
Insulation	Foam-PE, diameter 4.95 mm
Outer conductor	Al-PET-Al-foil under tinned copper braid, diameter 5.7 mm
Sheath	FRNC-C diameter 7.0mm $\pm$ 0.2 mm
Printing	DRAKA 1.2L/4.95 AF - 75 OHM $\pm$ 1% HDTV 5GHz - FRNC-C <batch number> <meter marking>

Electrical properties

at 20°C

DC resistance	Inner conductor / Outer conductor	21 Ω /km / 12 Ω /km
Mutual capacitance		56 pF/m
Characteristic impedance		75 $\Omega \pm 2\%$
Velocity ratio		1
Screening factor		> 90 dB

Electrical data (nominal)

at 20°C

Frequency (MHz)	Attenuation (db / 100m)	Frequency (MHz)	Return loss (dB)
1	3	50 - 300	> 23
3	6	300 - 800	> 19
5	8		
10	10		
30	11		
100	14		
200	20		
300	26		
500	32		
800	37		

Technical data

Color	Bending radius	Tensile force
-	mm	N
blue	45,0	115

ANNEX CANBUS1

Li-2YC11Y 2 x 2 x 0.22 mm²

Application

The following CanBus cable is suitable for transmission of CanBus signals.

Construction

Conductor	stranded bare copper wire, 7 x 0,20 mm diameter 0,60 mm (cross section 0,
Insulation	PE, thickness 0,46 mm, diameter 1,75 ± 0,05 mm
Core identification	pair 1: 1 x white, 1 x brown; pair 2: 1 x yellow, 1 x green
Cable lay up	4 cores twisted to a star quad, diameter 4,2 mm
Wrapping	1 x PET-foil, overlapping, diameter 4,3 mm
Overall screen	tinned copper braid, optical coverage ≥85%, diameter 5,0 mm
Foil	1 x PET-foil under sheath, diameter 5,1 mm
Sheath	LSHF, black, RAL 9005, diameter 6,4 mm

Mechanical properties

Bending radius	Moving	12 x outer diameter
	Fixed	6 x outer diameter

Electrical properties

at 20°C

Conductor resistance (at 20 ± 5 °C)		≤ 87 Ω/km
Characteristic impedance	at 1 MHz (pair)	120 Ω ± 15%
Capacitance	at 800 Hz	41 nF/km
Insulation resistance	(at 20 ± 5 °C and 500 V)	≥ 10 GΩxkm
Test voltage	(AC, 1 min) core/core and core/screen	1,2 kV

Technical data

Color	Diameter	Tensile force
-	mm	N
black	6,4	165