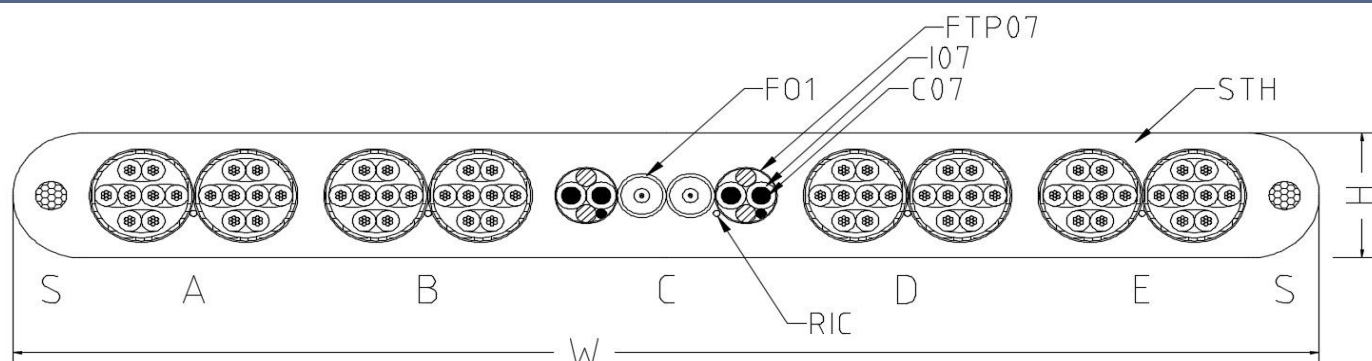


FLI-2YS(ST)(C)TY 8xCAT7+2xOM3+2x(2x0,75)ST

flat elevator travelling cable

material code

20320683



Construction

C07	Conductor 0,75 mm²	flexible stranded bare copper class 5
I07	Insulation	cellular polyethylene copolymer
F01	Fibre optics	UCFIBRE™ single fibre cable ø2.8 mm G50/125 OM3 for details see annex FOM3B001
FTP07	Foiled twisted pair (2x0,75)ST	cores twisted with filler(s) and drain wire shield AIPET tape 100% optical coverage
A, B, C, D, E	Group	elements lying closely side by side
S	Strain bearing member	zinc coated steel wire rope 1,8 mm
RIC	Ripcord	for removing sheath material
STH	Separation Sheath	talcum for elements - sheath separation special PVC compound according to EN 50363-4-1 TM 2 black similar to RAL9005 surface without knurling

Elements identification

Strand	Cores, color codes and numbers	Description
A	2xCAT7	grey sheath
B	2xCAT7	grey sheath
C	2x(2x0,75)ST YE#1-2; 3-4+2xFO BU#1-2	yellow with black numbers+blue with black numbers
D	2xCAT7	grey sheath
E	2xCAT7	grey sheath

Cable marking

DRAKA 07 FLI-2YS(C)(ST)TY 8xCAT7+2xOM3+2x(2x0,75)ST 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).

Electrical data

Element (type, cross-section)	Rated Voltage U0/U (V)	Test voltage core-core (V)	Test voltage core-screen (V)	Resistance single conductor (Ω/km)	Impedance @100 kHz (Ohm ±20%)
Signal pairs/cores STP 2x0,75	-	1500	1000	26,00	80,0

Technical data

Maximum Free Suspension Length m	Maximum Travel Height (approx.) m	Maximum Travelling Speed m/s	Cable Dimensions (approx.) mm		Standard Length m
			W	H	
60	110	6,3	76,0 ± 3,0	8,0 ± 0,5	1000

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
15,0	600	-15,0	70,0	Similar to EN 50214	FCDS-S	877,0

Notes

REV 20200131

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

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

ANNEX FOM3B001

UC^{FIBRE™} cable ø2.8 mm OM3

Application

Interconnect cabling.
This cable features DRAKA ES9 easy strippable tight buffer.
LAN horizontal cabling.
Patch cord cable, very well suited for mounting of SC connectors.
Short distance data-, control- and video transmission.
Internal wiring.

Standards

EN 187 000; IEC 60794-3; IEC 60794-2-10; ISO 11801 2nd edition; EN 50 173-1

Flame resistance

LSHF-FR (FRNC):	IEC 60332-1; IEC 60332-3-24; IEC 60754-2; IEC 61034
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Construction

Fibre	1 ES9 easily strippable tightly buffered fibres 900 µm ± 50 µm
Fibre colour	Natural
Strength member	Ultra high modulus aramid yarns
Sheath	Halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised
Sheath colour	Aqua, RAL 6027

Mechanical properties

Attribute	Method	Limits
Nominal dimension	-	2,8 mm
Nominal weight	-	9 kg/km
Tensile strength (dynamic)	E1	300 N
Tensile strength (permanent)	E1	150 N
Compressive strength (crush)	E3	3000 N
Impact	E4	5 Nm; R = 12,5 mm
Torsion	E7	5 cycles ± 1 turn
Min. Bending radius	E11	R = 20 mm
Temperature range	F1	- 40 °C to 70°C
Heat of combustion	-	160 MJ/km; 0,05 kWh/m

ANNEX FOM3B001

MaxCap-BB-OM3 Multimode Fibre

General and Application

Prysmian MaxCap BendBright® OM3, laser-optimised, bend-insensitive, graded-index multimode fibres are designed for transmission speeds of 10 Gb/s and beyond. It is suitable for systems operating at 850 nm and 1300 nm wavelengths. MaxCap BendBright® OM3 fibres incorporate BendBright® technology to deliver enhanced macro-bending performance. Prysmian multimode fibres are produced with proprietary Plasma Chemical Vapour Deposition (PCVD) process.

Standards

IEC 60793-2-10: type A1a.2, ISO/IEC 11801 category OM3
TIA/EIA-492 AAAC, ANSI/TIA/EIA-568.C, ITU G.651.1, ISO/IEC 24764

Cabled Fibre Attenuation

Attribute	Measurement method	Units	Limits
Attenuation at 850 nm	IEC 60793-1-40	dB/km	≤ 3,0
Attenuation at 1300 nm	IEC 60793-1-40	dB/km	≤ 1,0

Optical Specifications (Bare Fibre)

Attribute	Measurement method	Units	Limits
Attenuation at 850 nm	IEC 60793-1-40	dB/km	≤ 2,5
Attenuation at 1300 nm	IEC 60793-1-40	dB/km	≤ 0,7
Attenuation Difference btw. 1380 nm and 1300 nm	IEC 60793-1-40	dB/km	≤ 3,0
Point Discontinuity at 850 nm and 1300 nm	IEC 60793-1-40	dB	≤ 0,1
Numerical Aperture	IEC 60793-1-43	-	0,200 ± 0,015

Bending Loss

Mandrel Radius = 7.5 mm, 2 turns at 850/1300 nm	IEC 60793-1-40	dB	≤ 0,2 / ≤ 0,5
Mandrel Radius = 15 mm, 2 turns at 850/1300 nm	IEC 60793-1-40	dB	≤ 0,1 / ≤ 0,3

Bandwidth

Overfilled Launch Modal Bandwidth (OFL) at 850 nm	IEC 60793-1-41	MHz • km	≥ 1500
Overfilled Launch Modal Bandwidth (OFL) at 1300 nm	IEC 60793-1-41	MHz • km	≥ 500
Effective Modal Bandwidth (EMB) at 850 nm	IEC 60793-1-49	MHz • km	≥ 2000

Multimode System Reach

Transmission Distance*	1000BASE-SX	1000 m
	10GBASE-SR	300 m
	40GBASE-SR4	140 m
	100GBASE-SR10	140 m
	100GBASE-SR4	70 m

*Indicated link distances require total connector loss ≤ 1.0 dB, and VCSEL spectral bandwidth of ≤ 0.45 nm

ANNEX FOM3B001

MaxCap-BB-OM3 Multimode Fibre

Geometrical Specifications

Attribute	Measurement method	Units	Limits
Core diameter	IEC 60793-1-20	µm	50 ± 2,5
Core non-circularity	IEC 60793-1-20	%	≤ 5
Core-cladding concentricity error	IEC 60793-1-20	µm	≤ 1
Cladding diameter	IEC 60793-1-20	µm	125,0 ± 1,0
Cladding non-circularity	IEC 60793-1-20	%	≤ 0,7
Coating diameter – uncoloured	IEC 60793-1-21	µm	242 ± 7
Coating diameter - coloured	IEC 60793-1-21	µm	250 ± 15
Coating non-circularity	IEC 60793-1-21	%	≤ 5
Coating-cladding concentricity error	IEC 60793-1-21	µm	≤ 10

Mechanical Specifications

Attribute	Measurement method	Units	Limits
Proof stress level	IEC 60793-1-30	GPa	≥ 0,7 (1%)
Average strip force	IEC 60793-1-32	N	≥ 1,0 ≤ 3,0
Peak strip force	IEC 60793-1-32	N	≥ 1,3 ≤ 8,9

Group Index of Refraction

Typical Group index of refraction at 850 nm	IEC 60793-1-22	-	1,482
Typical Group index of refraction at 1300 nm	IEC 60793-1-22	-	1,477