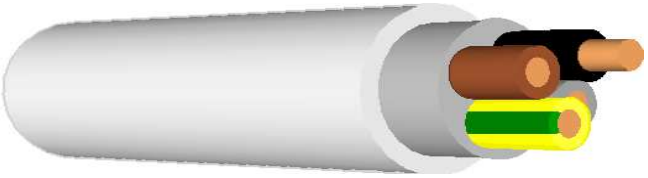
FLAMEBLOCKER
EXQ LIGHT EVO 300/500V

Based on SS 424 02-19-5
ZN-TF-219

Halogen-free light sheathed cables with improved fire behaviour





CONSTRUCTION	
Conductors:	annealed copper solid class 1 acc. to EN 60228
Insulation:	cross-linked polyethylene XLPE
Inner covering:	halogen-free not vulcanized rubber compound
Sheath:	special halogen-free thermoplastic compound

CHARACTERISTIC	
Colour of sheath:	white (other colours available at customer request)
Core identification:	(other colours available at customer request)
1-core	green-yellow
2-core:	blue, brown
3-core:	green-yellow, blue, brown
4-core:	green-yellow, brown, black, grey
4-core*:	green/yellow, blue, brown, black
5-core:	green-yellow, blue, brown, black, grey
7-core:	green-yellow, other cores black with numbering
* For certain applications only.	
Maximum conductor operating temperature:	+70°C
Lowest ambient temperature for fixed installation:	-30°C
Lowest installation temperature:	-15°C
Maximum short-circuit conductor temperature:	+250°C
Minimum bending radius:	
Normal use:	8 x D
Careful bending at termination:	4 x D, D – overall diameter
Max. permissible tensile stress with cable grip for Cu-conductor:	50 N/mm^2
Test voltage:	2000V

FIRE PERFORMANCE	
▪ **Flame retardant:**	IEC 60332-1-2, IEC 60332-3-24 (SS 4241475 F4C), IEC 60332-3-23 **(**SS 4241475 F4B)
▪ **Smoke density:**	EN 61034-2**,** IEC 61034-2
▪ **Gases evolved during combustion:**	IEC 60754-1, IEC 60754-2, EN 50267-2-2: pH ≥ 4,3; conductivity ≤ 10 µS/mm
▪ **CPR – class reaction to fire (acc EN 50575):**	**B2ca-s1a,d0,a1**

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APPLICATIONS

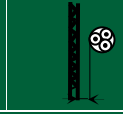
Installation cables for industrial complexes, public buildings, hotels, airports, hospitals or industrial plants with high concentration of people and/or property. Usable in the open, in dry, damp and wet environments in the open and concealed, as well as in masonry and in concrete, not suitable for imbedding in solidified – or compressed – concrete.

Standard length cable packing	100 m coils or 500 m on drums. Other forms of packing and delivery are available on request.

Number and cross-sectional area of conductor	Minimum number of wires in conductor	Nominal thickness of insulation	Nominal thickness of sheath	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	Minimum insulation resistance at 70°C	CPR – class reaction to fire
n x mm²	**n**	**mm**	**mm**	**mm**	**kg/km**	**Ω/km**	**MΩ. km**	
1G2,5	1	0,5	1,2	5,1	47	7,41	0,007	-
2x1,5	1	0,5	1,2	7,7	94	12,1	0,008	-
3G1,5	1	0,5	1,2	8,1	109	12,1	0,008	B2ca-s1,d0,a1
3G2,5	1	0,5	1,2	8,9	147	7,41	0,007	B2ca-s1,d0,a1
4G1,5	1	0,5	1,2	8,7	130	12,1	0,008	B2ca-s1,d0,a1
4G2,5	1	0,5	1,2	9,6	177	7,41	0,007	B2ca-s1,d0,a1
5G1,5	1	0,5	1,2	9,4	153	12,1	0,008	B2ca-s1,d0,a1
5G2,5	1	0,5	1,2	10,4	211	7,41	0,007	B2ca-s1,d0,a1
7G1,5	1	0,5	1,4	10,4	199	12,1	0,008	-

Current ratings

Operating temperature at conductor 70°C; ambient air temperature 30°C

								
Installation: - in thermally insulated walls - in insulating tubes	Multicore sheathed cables in insulating tubes, in a thermally insulated walls		Multicore sheathed cables in insulating tubes on a wall		Single or multicore sheathed cables on a wall		Multicore sheathed cables with a space of minimum 0,3 x diameter d to wall	
Number of loaded cores	2	3 [1)]	2	3 [1)]	2	3 [1)]	2	3 [1)]
Cross-section, mm²	Current ratings in Ampere (A)							
1,5	15,5	13,0	16,5	15,0	19,5	17,5	22	18,5
2,5	18,5	17,5	23	20	27	24	30	25

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Conversion factors for ambient temperature over 30°C

Ambient temperature, °C	30	35	40	45	50	55	60	65
Conversion factors	1,00	0,94	0,87	0,79	0,71	0,61	0,50	0,35

[1)] Conversion factors for multicore cable (≥5 cores)

Number of loaded cores	Conversion factors
5	0,75
7	0,65

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