

EXQ 90 Lite

Installation cable-HF

300/500 V

Application

Installation cable for fixed installations indoors and outdoors. Can be embedded to the groove filled with plaster. The conductor insulation must be protected against UV-radiation. Installations must be in accordance with national regulations and rules of installations. The cable is halogen-free, but without fire protection. The cable is flame-retardant according to CPR-class Eca.

Design

Standards	SS 424 02 19-5
Reaction to fire	Eca; EN 13501-6, EN 50575:2014+A1:2016
Conductor	Circular solid copper, EN/IEC 60228 class 1
Insulation	Extruded halogen free XLPE-compound
Cable lay up	Insulated cores SZ-twisted together
Oversheath	Halogen free UV-resistant polyolefin compound



Temperature limits

Max. conductor temperature °C	90
Max. cond. temp. short circuit max. 5 s °C	250
Min. cable temperature during operation °C	-40
Min. cable temperature during handling °C	-15
Min. cable temperature during transport °C	-40

Current carrying capacity standard reference

IEC 60364-5-52:2009, SFS 6000-5-52:2017

Additional information

EN/IEC 60332-1-2 Flame retardant, halogen free EN 60754 and minimal smoke production EN 61034

Technical information	3G1,5	4G1,5	5G1,5	7G1,5 spec.	1G2,5	3G2,5	4G2,5	5G2,5	7G2,5 spec.	3G4
Product code	1300503	1300504	1300505	1300509	1300511	1300513	1300514	1300515	1300517	1300519
Nominal diameter of conductor mm	1,3	1,3	1,3	1,3	1,7	1,7	1,7	1,7	1,7	2,5
Nominal diameter of complete cable mm	8	8	9	10	5	9	10	11	11	10
Nominal weight of cable kg/km	86	106	126	162	49	123	153	183	240	175
Nominal thickness of insulation mm	0,5	0,5	0,5	0,5	0,6	0,6	0,6	0,6	0,6	0,6
Nominal thickness of oversheath mm	1,3	1,3	1,3	1,3	1,2	1,3	1,3	1,3	1,3	1,3
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	0,2	0,3	0,3	0,5	0,1	0,3	0,5	0,6	0,5	0,6
Max. pulling force by pulling-stocking kN										
Minimum bending radii										
Minimum bending radius, handling mm	80	80	90	100	50	90	100	110	110	150
Minimum bending radius, final bending mm	24	24	27	30	15	27	30	33	33	100
Minimum bending radii										
During handling and installation, cable cm	8	8	9	10	5	9	10	11	11	15
In final installation, cable cm	2	2	3	3	2	3	3	3	3	10
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	12,1	12,1	12,1	12,1	7,41	7,41	7,41	7,41	12,1	4,61
Electrical values										
Minimum insulation resistance MΩ × km	0,011	0,011	0,011	0,011	0,01	0,01	0,01	0,01	0,01	
Current ratings										
Cables in air (25 °C)										
two loaded conductor, conductor 70 °C A	23	23	23			31	31	31		42
three loaded conductor, conductor 70 °C A		19	19				26	26		
Cables in air (30 °C)										
two loaded conductor, conductor 70 °C A	22	22	22			30	30	30		40
three loaded conductor, conductor 70 °C A		18,5	18,5				25	25		
Cables in the ground (15 °C and 1,0 K.m/W), Installation depth 0,7 m										
Cables in the ground, conductor 65 °C A		26	26				35	35		
Cables in the ground (20 °C and 2,5 K.m/W), Installation depth 0,7 m										
Cables in the ground, conductor 90 °C A		27	27				30	30		

Technical information	5G4	1G6
Product code	1300518	1300516
Nominal diameter of conductor mm	2,6	3,1
Nominal diameter of complete cable mm	12	7
Nominal weight of cable kg/km	286	94
Nominal thickness of insulation mm	0,6	0,7
Nominal thickness of oversheath mm	1,4	1,2
Maximum forces during installation when pulling by		
Max. pulling force by pulling-eye kN	0,5	0,3
Max. pulling force by pulling-stocking kN		
Minimum bending radii		
Minimum bending radius, handling mm	120	70
Minimum bending radius, final bending mm	36	21
Minimum bending radii		
During handling and installation, cable cm	12	7
In final installation, cable cm	4	2
DC resistance		
Max. DC resistance of conductor at 20 °C Ω/km	12,1	3,08
Current ratings		
Cables in air (25 °C)		
two loaded conductor, conductor 70 °C A	42	
three loaded conductor, conductor 70 °C A	35	
Cables in air (30 °C)		
two loaded conductor, conductor 70 °C A	40	
three loaded conductor, conductor 70 °C A	34	
Cables in the ground (15 °C and 1,0 K.m/W), Installation depth 0,7 m		
Cables in the ground, conductor 65 °C A	46	
Cables in the ground (20 °C and 2,5 K.m/W), Installation depth 0,7 m		
Cables in the ground, conductor 90 °C A	39	