

HHJ LiteRex C

Installation cable HF

300/500 V

Application

Installation cable for fixed installations indoors and outdoors. Not to be laid in soil nor directly in cast concrete. Can be embedded to the groove filled with plaster. Can also be used in medical facilities where higher fire class is required. UV-protected oversheath and core insulation. Installations must be in accordance with national regulations and rules of installations. The cable is halogen-free and flame-retardant according to CPR-class Cca-s1,d1,a1.



LiteRex



Design

Standards	SS 424 02 19-5
Reaction to fire	Cca-s1,d1,a1; EN 13501-6, EN 50575:2014+A1:2016
Conductor	Circular solid copper, EN/IEC 60228 class 1
Insulation	UV-protected polyethylene compound
Core Identification	2N: Blue, brown 3x: Brown, black, grey 3S: Yellow-green, blue, brown 4S: Yellow-green, blue, brown, black 4N: Blue, brown, black, grey 5S: Yellow-green, blue, brown, black, grey 5N: Blue, brown, black, grey, black
Oversheath	UV-protected polyolefin compound, White

Temperature limits

Max. conductor temperature °C	70
Max. cond. temp. short circuit max. 5 s °C	160
Min. cable temperature during operation °C	-40
Min. cable temperature during handling °C	-15
Min. cable temperature during transport °C	-40

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Technical information	2x1,5 N	3x1,5 S	3x1,5 N	4x1,5 S	4x1,5 N	5x1,5 S	5x1,5 N	2x2,5 N	3x2,5 S	3x2,5 N
Product code	1150138	1150139	1150150	1150140	1150151	1150141	1150152	1150142	1150143	1150153
Minimum diameter of cable mm	7,6	8	8	8,7	8,7	9,4	9,4	8,7	9,3	9,3
Maximum diameter of cable mm	10,1	10,6	10,6	11,4	11,4	12,3	12,3	11,5	12,1	12,1
Nominal cross-sectional area of conductor mm ²	1,5	1,5	1,5	1,5	1,5	1,5	1,5	2,5	2,5	2,5
Nominal diameter of conductor mm	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,7	1,7	1,7
Nominal thickness of insulation mm	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,6	0,6	0,6
Nominal thickness of oversheath mm	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5
Fire load MJ/m	0,680	0,775	0,775	0,895	0,895	1,021	1,021	0,843	0,986	0,983
Fire load kWh/m	0,189	0,215	0,215	0,249	0,249	0,284	0,284	0,234	0,274	0,273
Nominal cable diameter mm	7,320	7,670	7,670	8,290	8,290	8,970	8,970	8,480	8,920	8,920
Nominal cable weight kg/km	71,883	91,349	91,349	112,430	112,430	133,931	133,931	99,758	130,404	130,324
Nominal weight of copper kg/m	0,026	0,039	0,039	0,052	0,052	0,065	0,065	0,043	0,064	0,064
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	0,1	0,2	0,2	0,3	0,3	0,3	0,3	0,2	0,3	0,3
Max. pulling force by pulling-stocking kN										
Minimum bending radii										
Minimum bending radius, handling mm	73	77	77	83	83	90	90	85	89	89
Minimum bending radius, final bending mm	22	23	23	25	25	27	27	25	27	27
Minimum bending radii										
During handling and installation, cable cm	7	8	8	8	8	9	9	8	9	9
In final installation, cable cm	2	2	2	2	2	3	3	3	3	3
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	12,1	12,1	12,1	12,1	12,1	12,1	12,1	7,41	7,41	7,41
Electrical values										
Minimum insulation resistance MΩ × km	0,011	0,011	0,011	0,011	0,011	0,011	0,011	0,01	0,01	0,01
Current ratings										
Cables in air (25 °C)										
two loaded conductor, conductor 70 °C A	23	23	23	23	23	23	23	31	31	31
three loaded conductor, conductor 70 °C A			19	19	19	19	19			19
Cables in air (30 °C)										
two loaded conductor, conductor 70 °C A	22	22	22	22	22	22	22	30	30	30
three loaded conductor, conductor 70 °C A			18,5	18,5	18,5	18,5	18,5			18,5

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Technical information	4x2,5 S	4x2,5 N	5x2,5 S	5x2,5 N
Product code	1150144	1150154	1150145	1150155
Minimum diameter of cable mm	10,1	10,1	11	11
Maximum diameter of cable mm	13,1	13,1	14,2	14,2
Nominal cross-sectional area of conductor mm ²	2,5	2,5	2,5	2,5
Nominal diameter of conductor mm	1,7	1,7	1,7	1,7
Nominal thickness of insulation mm	0,6	0,6	0,6	0,6
Nominal thickness of oversheath mm	1,5	1,5	1,5	1,5
Fire load MJ/m	1,149	1,149	1,322	1,322
Fire load kWh/m	0,319	0,319	0,367	0,367
Nominal cable diameter mm	9,690	9,690	10,540	10,540
Nominal cable weight kg/km	162,803	162,803	195,804	195,804
Nominal weight of copper kg/m	0,085	0,085	0,106	0,106
Maximum forces during installation when pulling by				
Max. pulling force by pulling-eye kN	0,5	0,5	0,6	0,6
Max. pulling force by pulling-stocking kN				
Minimum bending radii				
Minimum bending radius, handling mm	97	97	105	105
Minimum bending radius, final bending mm	29	29	32	32
Minimum bending radii				
During handling and installation, cable cm	10	10	11	11
In final installation, cable cm	3	3	3	3
DC resistance				
Max. DC resistance of conductor at 20 °C Ω/km	7,41	7,41	7,41	7,41
Electrical values				
Minimum insulation resistance MΩ × km	0,01	0,01	0,01	0,01
Current ratings				
Cables in air (25 °C)				
two loaded conductor, conductor 70 °C A	31	31	31	31
three loaded conductor, conductor 70 °C A	26	26	26	26
Cables in air (30 °C)				
two loaded conductor, conductor 70 °C A	30	30	30	30
three loaded conductor, conductor 70 °C A	25	25	25	25