

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	Blue, brown Blue, brown, black, grey Blue, brown, black, grey, black Brown, black, grey Yellow-green, blue, brown Yellow-green, blue, brown, black Yellow-green, blue, brown, black, grey
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	3x1,5 S	4x1,5 S	5x1,5 S	3x2,5 S	4x2,5 S	5x2,5 S	2x1,5 N	3x1,5 N	4x1,5 N	5x1,5 N
Product code	1150139	1150140	1150141	1150143	1150144	1150145	1150138	1150150	1150151	1150152
Minimum diameter of cable mm	8	8,7	9,4	9,3	10,1	11	7,6	8	8,7	9,4
Maximum diameter of cable mm	10,6	11,4	12,3	12,1	13,1	14,2	10,1	10,6	11,4	12,3
Nominal cross-sectional area of conductor mm ²	1,5	1,5	1,5	2,5	2,5	2,5	1,5	1,5	1,5	1,5
Nominal diameter of conductor mm	1,3	1,3	1,3	1,7	1,7	1,7	1,3	1,3	1,3	1,3
Nominal thickness of insulation mm	0,5	0,5	0,5	0,6	0,6	0,6	0,5	0,5	0,5	0,5
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	0,775	0,895	1,021	0,986	1,149	1,322	0,680	0,775	0,895	1,021
Fire load kWh/m	0,215	0,249	0,284	0,274	0,319	0,367	0,189	0,215	0,249	0,284
Nominal cable diameter mm	7,670	8,290	8,970	8,920	9,690	10,540	7,320	7,670	8,290	8,970
Nominal cable weight kg/km	91,349	112,430	133,931	130,404	162,803	195,804	71,883	91,349	112,430	133,931
Metall weight Cu kg/m	0,039	0,052	0,065	0,064	0,085	0,106	0,026	0,039	0,052	0,065
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	0,2	0,3	0,3	0,3	0,5	0,6	0,1	0,2	0,3	0,3
Max. pulling force by pulling-stocking kN										
Minimum bending radii										
Minimum bending radius, handling mm	77	83	90	89	97	105	73	77	83	90
Minimum bending radius, final bending mm	23	25	27	27	29	32	22	23	25	27
Minimum bending radii										
During handling and installation, cable cm	8	8	9	9	10	11	7	8	8	9
In final installation, cable cm	2	2	3	3	3	3	2	2	2	3
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	12,1	12,1	12,1	7,41	7,41	7,41	12,1	12,1	12,1	12,1
Electrical values										
Minimum insulation resistance MΩ × km	0,011	0,011	0,011	0,01	0,01	0,01	0,011	0,011	0,011	0,011
Current ratings										
Cables in air (25 °C)										
two loaded conductor, conductor 70 °C A	23	23	23	31	31	31	23	23	23	23
three loaded conductor, conductor 70 °C A		19	19		26	26		19	19	19
Cables in air (30 °C)										
two loaded conductor, conductor 70 °C A	22	22	22	30	30	30	22	22	22	22
three loaded conductor, conductor 70 °C A		18,5	18,5		25	25		18,5	18,5	18,5

Technical information	2x2,5 N	3x2,5 N	4x2,5 N	5x2,5 N
Product code	1150142	1150153	1150154	1150155
Minimum diameter of cable mm	8,7	9,3	10,1	11
Maximum diameter of cable mm	11,5	12,1	13,1	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	0,843	0,983	1,149	1,322
Fire load kWh/m	0,234	0,273	0,319	0,367
Nominal cable diameter mm	8,480	8,920	9,690	10,540
Nominal cable weight kg/km	99,758	130,324	162,803	195,804
Metall weight Cu kg/m	0,043	0,064	0,085	0,106
Maximum forces during installation when pulling by				
Max. pulling force by pulling-eye kN	0,2	0,3	0,5	0,6
Max. pulling force by pulling-stocking kN				
Minimum bending radii				
Minimum bending radius, handling mm	85	89	97	105
Minimum bending radius, final bending mm	25	27	29	32
Minimum bending radii				
During handling and installation, cable cm	8	9	10	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		19	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		18,5	25	25