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.

Design

Standards	SS 424 02 19-5
Reaction to fire	Cca-s1,d1,a1; EN 13501-6, EN 50575:2014+A1:2016
Product Environmental Profile (PEP/EPD)	PEP NXNS-00718-V01.01-EN
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

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**
Nominal cable diameter mm	7	8	8	8	8	9	9	8	9	9
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 cable weight kg/km	72	91	91	112	112	135	134	100	130	130
Nominal weight of copper kg/km	26	39	39	52	52	65	65	43	64	64
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 Insulation thicness 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										
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
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	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
Environmental information										
(A1-A3) GWP emission kgCO2e/km	261	335	335	415	415	497	497	367	497	483
GWP emissions calculation standard	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019

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STANDARD PACKAGES	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
GTIN code	6438176300503	6438176300558	6438176305089	6438176304037	6438176305096	6438176300619	6438176305102	6438176300626	6438176300671	6438176305119
Package	100 bundle	500 K6	500 K6	250 spool	500 K6	500 K6	500 K6	100 bundle	500 K6	500 K6
Product code	1150138	1150139		1150140		1150141		1150142	1150143	
GTIN code	6438176300510	6438176304372		6438176300572		6438176304396		6438176304051	6438176300657	
Package	300 spool	500 MK6		300 spool		500 MK6		200 spool	100 bundle	
Product code	1150138	1150139		1150140		1150141		1150142	1150143	
GTIN code	6438176300527	6438176300534		6438176300589		6438176300596		6438176300640	6438176304419	
Package	500 K6	100 bundle		500 K6		100 bundle		500 K6	500 MK6	
Product code		1150139		1150140		1150141		1150142	1150143	
GTIN code		6438176304020		6438176300565		6438176304044		6438176300633	6438176304068	
Package		250 spool		100 bundle		200 spool		250 spool	200 spool	
Product code		1150139				1150141			1150143	
GTIN code		6438176300541				6438176300602			6438176300664	
Package		300 spool				250 spool			250 spool	

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Technical information	4x2,5 S	4x2,5 N	5x2,5 S	5x2,5 N
Product code	**1150144**	**1150154**	**1150145**	**1150155**
Nominal cable diameter mm	10	10	11	11
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 cable weight kg/km	163	163	196	196
Nominal weight of copper kg/km	85	85	106	106
Nominal diameter of conductor mm	1,7	1,7	1,7	1,7
Nominal Insulation thicness mm	0,6	0,6	0,6	0,6
Nominal thickness of oversheath mm	1,5	1,5	1,5	1,5
Fire load				
Fire load MJ/m	1,149	1,149	1,322	1,322
Fire load kWh/m	0,319	0,319	0,367	0,367
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

PEP ecoPASSPORT®

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Technical information	4x2,5 S	4x2,5 N	5x2,5 S	5x2,5 N
Environmental information				
(A1-A3) GWP emission kgCO2e/km	606	606	731	731
GWP emissions calculation standard	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019

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STANDARD PACKAGES	4x2,5 S	4x2,5 N	5x2,5 S	5x2,5 N
Product code	1150144	1150154	1150145	1150155
GTIN code	6438176300701	6438176305126	6438176300718	6438176305133
Package	500 K6	500 K6	100 bundle	500 K7
Product code	1150144		1150145	
GTIN code	6438176300688		6438176304433	
Package	100 bundle		500 MK7	
Product code	1150144		1150145	
GTIN code	6438176300695		6438176300732	
Package	200 spool		500 K7	
Product code			1150145	
GTIN code			6438176304075	
Package			150 spool	
Product code			1150145	
GTIN code			6438176300725	
Package			200 spool	