EQQ LiteRex

Installation cable HF

300/500 V

LiteRex

EN 50575 CPR D_{ca} s_2 d_2 a_2

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. 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 Dca-s2,d2,a2.

Design

Standards	SS 424 02 19-5
Reaction to fire	Dca-s2,d2,a2; EN 13501-6, EN 50575:2014+A1:2016
Product Environmental Profile (PEP/EPD)	PEP NXNS-00336-V01.01-EN
Conductor	Circular solid copper, EN/IEC 60228 class 1
Insulation	UV-protected polyethylene compound
Core Identification	2N: Blue, brown 3G: Yellow-green, blue, brown 4G: Yellow-green, blue, brown, black 5G: 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

Technical information	2x1,5 N	3G1,5	4G1,5	5G1,5	2x2,5 N	3G2,5	4G2,5	5G2,5
Product code	**1254728**	**1254730**	**1254731**	**1254732**	**1254729**	**1254733**	**1254734**	**1254735**
Nominal cross-sectional area of conductor mm²	1,5	1,5	1,5	1,5	2,5	2,5	2,5	2,5
Nominal diameter of conductor mm	1,3	1,3	1,3	1,3	1,7	1,7	1,7	1,7
Nominal thickness of insulation mm	0,5	0,5	0,5	0,5	0,6	0,6	0,6	0,6
Nominal thickness of oversheath mm	1,3	1,4	1,4	1,4	1,3	1,4	1,4	1,4
Fire load MJ/m	0,876	1,054	1,233	1,453	1,104	1,358	1,610	1,910
Fire load kWh/m	0,243	0,293	0,343	0,404	0,307	0,377	0,447	0,531
(A1-A3) GWP emission kgCO2e/km	174	228	282	343	247	331	413	504
Nominal cable diameter mm	7,620	8,090	8,700	9,480	8,780	9,330	10,100	11,040
Nominal cable weight kg/km	72,747	92,723	112,601	135,165	99,539	130,129	160,670	194,378
Nominal weight of copper kg/m	0,026	0,039	0,052	0,065	0,043	0,064	0,085	0,106
Maximum forces during installation when pulling by								
Max. pulling force by pulling-eye kN	0,1	0,2	0,3	0,3	0,2	0,3	0,5	0,6
Minimum bending radii								
Minimum bending radius, handling mm	76	81	87	95	88	93	101	110
Minimum bending radius, final bending mm	23	24	26	28	26	28	30	33
Minimum bending radii								
During handling and installation, cable cm	8	8	9	9	9	9	10	11
In final installation, cable cm	2	2	3	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	7,41	7,41	7,41	7,41
Electrical values								
Minimum insulation resistance MΩ × km	0,011	0,011	0,011	0,011	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	23	31	31	31	31
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	22	30	30	30	30
three loaded conductor, conductor 70 °C A			18,5	18,5			25	25
Environmental information								
GWP 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