

EQLQ LiteRex

Installation cable HF

450/750 V

Application

Installation cable for fixed installations indoors and outdoors. Not to be laid directly in cast concrete. Can be embedded to the groove filled with plaster. Cables can be installed underground, provided that national installation regulations allow it, if they are protected by installation pipes and the installation is carried out with the necessary caution. They are not suitable for long-term or permanent exposure to water. 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 19-6
Reaction to fire	Dca-s2,d2,a2; EN 13501-6, EN 50575:2014+A1:2016
Product Environmental Profile (PEP/EPD)	PEP NXNS-00562-V01.01-EN
Conductor	Circular solid copper, EN/IEC 60228 class 1
Insulation	UV-protected polyethylene compound
Core Identification	3G: Yellow-green, blue, brown 4G: Yellow-green, blue, brown, black 5G: Yellow-green, blue, brown, black, grey
Overall shield	Polyethylene laminated aluminium foil
Oversheath	UV-protected polyolefin compound, White
Earth conductor	Circular stranded tinned copper, EN/IEC 60228 class 2

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	3G1,5	4G1,5	5G1,5	3G2,5	4G2,5	5G2,5
Product code	1254683	1254684	1254685	1254688	1254689	1254690
Nominal cross-sectional area of conductor mm ²	1,5	1,5	1,5	2,5	2,5	2,5
Nominal diameter of conductor mm	1,3	1,3	1,3	1,7	1,7	1,7
Nominal thickness of insulation mm	0,5	0,5	0,5	0,6	0,6	0,6
Nominal thickness of oversheath mm	1,2	1,2	1,2	1,4	1,4	1,4
Fire load MJ/m	1,173	1,501	1,751	1,692	2,025	2,391
Fire load kWh/m	0,326	0,417	0,486	0,470	0,563	0,664
(A1-A3) GWP emission kgCO ₂ e/km	453	556	655	653	801	955
Nominal cable diameter mm	8,290	9,030	9,970	9,420	10,440	11,530
Nominal cable weight kg/km	101,619	125,077	147,459	147,081	180,581	215,289
Nominal weight of copper kg/m	0,048	0,061	0,074	0,073	0,094	0,116
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
Minimum bending radii						
Minimum bending radius, handling mm	83	90	100	94	104	115
Minimum bending radius, final bending mm	25	27	30	28	31	35
Minimum bending radii						
During handling and installation, cable cm	8	9	10	9	10	12
In final installation, cable cm	2	3	3	3	3	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
Electrical values						
Minimum insulation resistance MΩ × km	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	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	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