

EQQ-HF D - IFXI-LX D - MMJ-D Helppo

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. 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-00717-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
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	3G1,5	4G1,5	5G1,5	3G2,5	4G2,5	5G2,5
Product code	1254790	1254791	1254792	1254793	1254794	1254795
Nominal cable diameter mm	8	8	9	9	10	11
Nominal cable weight kg/km	89	109	130	127	158	189
Nominal weight of copper kg/km	39	52	65	64	85	106
Nominal diameter of conductor mm	1,3	1,3	1,3	1,7	1,7	1,7
Nominal Insulation thickness mm	0,5	0,5	0,5	0,6	0,6	0,6
Nominal thickness of oversheath mm	1,2	1,2	1,2	1,2	1,2	1,2
Fire load						
Fire load MJ/m	1,054	1,233	1,452	1,358	1,610	1,910
Fire load kWh/m	0,293	0,343	0,404	0,377	0,447	0,530
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	77	83	90	89	97	105
Minimum bending radius, final bending mm	23	25	27	27	29	32
Minimum bending radii						
During handling and installation, cable cm	8	8	9	9	10	11
In final installation, cable cm	2	2	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						
(A1-A3) GWP emission kgCO ₂ e/km	319	402	487	473	603	734
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

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STANDARD PACKAGES	3G1,5	4G1,5	5G1,5	3G2,5	4G2,5	5G2,5
Product code	1254790	1254791	1254792	1254793	1254794	1254795
GTIN code	6438176309681		6438176309773	6438176309742		6438176309797
Package	100 bundle	100 bundle	200 spool	500 K6	500 K6	50 bundle
Product code	1254790	1254791	1254792	1254793	1254794	1254795
GTIN code	6438176309704		6438176309780	6438176310717		6438176310731
Package	500 K6	500 K6	500 K6	500 MK6	200 spool	500 MK6
Product code	1254790	1254791	1254792	1254793	1254794	1254795
GTIN code	6438176310700		6438176310724	6438176309728		6438176309827
Package	500 MK6	250 spool	500 MK6	100 bundle	500 MK6	500 K6
Product code	1254790	1254791	1254792	1254793	1254794	1254795
GTIN code	6438176309698		6438176309766	6438176309735		6438176309810
Package	300 spool	500 MK6	100 bundle	250 spool	100 bundle	150 spool