

FXQ 90 Lite D

Copper power cable HF

0,6/1 (1,2) kV



Application

Installation cable for fixed installations indoors and outdoors. Can be embedded to the groove filled with plaster. May be buried directly in soil. The conductor insulation must be protected against UV-radiation. 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	IEC 60502-1, HD 604 5 G
Reaction to fire	Dca-s2,d2,a2; EN 13501-6, EN 50575:2014+A1:2016
Conductor	Circular stranded copper, EN/IEC 60228 class 2
Insulation	Cross-linked polyethylene XLPE
Core Identification	1G: Yellow-green 4x: Blue, brown, black, grey 5G: Yellow-green, blue, brown, black, grey
Oversheath	UV-protected polyolefin compound, Grey

Temperature limits

Max. conductor temperature °C	90
Max. cond. temp. short circuit max. 5 s °C	250
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	4x6	4x10	4x16	5G4	5G6	5G10	5G16	1G10	1G16
Product code	1300683	1300684	1300685	1300686	1300687	1300688	1300689	1300690	1300691
Nominal cross-sectional area of conductor mm ²	6	10	16	4	6	10	16	10	16
Nominal diameter of conductor mm	3,2	4,1	5,0	2,6	3,2	4,1	5,0	4,1	5,0
Nominal thickness of insulation mm	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7
Nominal thickness of oversheath mm	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,4	1,4
Fire load MJ/m	3,677	4,566	5,642	3,672	4,231	5,178	6,301	1,244	1,489
Fire load kWh/m	1,022	1,268	1,567	1,020	1,175	1,438	1,750	0,346	0,414
Nominal cable diameter mm	14,260	16,390	18,920	14,150	15,580	17,950	20,780	8,590	9,640
Nominal cable weight kg/km	352,257	511,386	748,771	334,031	439,572	640,462	940,227	151,712	213,841
Nominal weight of copper kg/m	0,213	0,345	0,550	0,183	0,266	0,432	0,688	0,086	0,137
Maximum forces during installation when pulling by									
Max. pulling force by pulling-eye kN	1,2	2,0	3,2	1,0	1,5	2,5	4,0	0,5	0,8
Max. pulling force by pulling-stocking kN	0,4	0,6	1,0		0,5	0,8	1,2	0,2	0,2
Minimum bending radii									
Minimum bending radius, handling mm	171	197	227	170	187	215	249	103	116
Minimum bending radius, final bending mm	120	138	159	119	131	151	175	72	81
Minimum bending radii									
During handling and installation, cable cm	17	20	23	17	19	22	25	10	12
In final installation, cable cm	12	14	16	12	13	15	17	7	8
Minimum bending radii									
During handling and installation, cable m	0,17	0,20	0,23	0,17	0,19	0,21	0,25	0,10	0,12
In final installation, cable m	0,12	0,14	0,16	0,12	0,13	0,15	0,17	0,07	0,08
DC resistance									
Max. DC resistance of conductor at 20 °C Ω/km	3,08	1,83	1,15	4,61	3,08	1,83	1,15	1,83	1,15

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Current ratings									
Cables in air (25 °C)									
two loaded conductor, conductor 70 °C A	53	73	98	42	53	73	98		
three loaded conductor, conductor 70 °C A	45	62	83	35	45	62	83		
Cables in air (30 °C)									
two loaded conductor, conductor 70 °C A	51	70	94	40	51	70	94		
three loaded conductor, conductor 70 °C A	43	60	80	34	43	60	80		
Cables in the ground (15 °C and 1,0 K.m/W), Installation depth 0,7 m									
Cables in the ground, conductor 65 °C A	57	77	100	46	57	77	100		
Cables in the ground (20 °C and 2,5 K.m/W), Installation depth 0,7 m									
Cables in the ground, conductor 90 °C A	49	65	84	39	49	65	84		
Maximum thermal short circuit current during 1 s									
Phase (initial 65 °C, final 250 °C) kA	0,9	1,6	2,5		0,9	1,6	2,5	1,6	2,5
Phase (initial 90 °C, final 250 °C) kA	0,8	1,4	2,3		0,8	1,4	2,3	1,4	2,3