

## FXQ 90 Lite

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 flame-retardant according to CPR-class Eca.

### Design

<b>Standards</b>	IEC 60502-1, HD 604 5 G
<b>Reaction to fire</b>	Eca; EN 13501-6, EN 50575:2014+A1:2016
<b>Conductor</b>	Circular stranded copper, EN/IEC 60228 class 2
<b>Insulation</b>	Halogen free XLPE
<b>Cable lay up</b>	Insulated cores SZ-twisted together
<b>Separation sheath</b>	Plastic tape
<b>Oversheath</b>	Halogen free UV-resistant polyolefin compound
<b>Colour of the oversheath</b>	Grey



### Temperature limits

<b>Max. conductor temperature °C</b>	90
<b>Max. cond. temp. short circuit max. 5 s °C</b>	250
<b>Min. cable temperature during operation °C</b>	-40
<b>Min. cable temperature during handling °C</b>	-15
<b>Min. cable temperature during transport °C</b>	-40

Technical information	4x6	5G6	1G10	4x10	5G10	1G16	4x16	5G4	5G16
<b>Product code</b>	<b>1702136</b>	<b>1703548</b>	<b>1703904</b>	<b>1702137</b>	<b>1703549</b>	<b>1703905</b>	<b>1702138</b>	<b>1703959</b>	<b>1703550</b>
Nominal diameter of conductor mm	3,2	3,2	4,1	4,1	4,1	5,0	5,0	2,6	5,0
Nominal diameter of complete cable mm	15	16	8	17	18	9	19	15	21
Nominal weight of cable kg/km	363	443	142	526	645	202	767	338	945
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	1,8	1,8	1,4	1,8	1,8	1,4	1,8	1,8	1,8
<b>Maximum forces during installation when pulling by</b>									
Max. pulling force by pulling-eye kN	1,2	1,5	0,5	2,0	2,5	0,8	3,2	1,0	4,0
Max. pulling force by pulling-stocking kN	0,4	0,5	0,2	0,6	0,8	0,2	1,0		1,2
<b>Minimum bending radii</b>									
Minimum bending radius, handling mm	219	237	98	252	273	111	288	219	315
Minimum bending radius, final bending mm	154	166	69	176	191	78	202	154	221
<b>Minimum bending radii</b>									
During handling and installation, cable cm	22	24	10	25	27	11	29	22	32
In final installation, cable cm	15	17	7	18	19	8	20	15	22
<b>Minimum bending radii</b>									
During handling and installation, cable m	0,22	0,24	0,10	0,25	0,27	0,11	0,29	0,22	0,32
In final installation, cable m	0,15	0,17	0,07	0,18	0,19	0,08	0,20	0,15	0,22
<b>DC resistance</b>									
Max. DC resistance of conductor at 20 °C Ω/km	3,08	3,08	1,83	1,83	1,83	1,15	1,15	4,61	1,15

Technical information	4x6	5G6	1G10	4x10	5G10	1G16	4x16	5G4	5G16
<b>Current ratings</b>									
<b>Cables in air (25 °C)</b>									
two loaded conductor, conductor 70 °C A	53	53		73	73		98	42	98
three loaded conductor, conductor 70 °C A	45	45		62	62		83	35	83
two loaded conductor, conductor 90 °C A	66	66		89	89		120	51	120
three loaded conductor, conductor 90 °C A	56	56		78	78		104	44	104
<b>Cables in air (30 °C)</b>									
two loaded conductor, conductor 70 °C A	51	51		70	70		94	40	94
three loaded conductor, conductor 70 °C A	43	43		60	60		80	34	80
two loaded conductor, conductor 90 °C A	63	63		86	86		115	49	115
three loaded conductor, conductor 90 °C A	54	54		75	75		100	42	100
<b>Cables in the ground (15 °C and 1,0 K.m/W), Installation depth 0,7 m</b>									
Cables in the ground, conductor 65 °C A	57	57		77	77		100	46	100
<b>Cables in the ground (20 °C and 2,5 K.m/W), Installation depth 0,7 m</b>									
Cables in the ground, conductor 90 °C A	49	49		65	65		84	39	84
<b>Maximum thermal short circuit current during 1 s</b>									
Phase (initial 65 °C, final 250 °C) kA	0,9	0,9	1,6	1,6	1,6	2,5	2,5		2,5
Phase (initial 90 °C, final 250 °C) kA	0,8	0,8	1,4	1,4	1,4	2,3	2,3		2,3