XCMK-HF, FXQJ, EXQJ, IFSI

0.6/1kV with CU conductors, XLPE insulated and HFFR sheath with concentric conductor

Application

For fixed installation in dry and damp locations, on or under plaster, on cable trays, and in walls or concrete. Not suitable for direct burial or installation in water. For outdoor use, installation in protective ducts (conduit) is permitted, provided adequate measures are taken to prevent water ingress. Suitable for emergency power supply and fire-safe installations requiring protection of life and property. Recommended for public buildings, industrial plants, power stations, substations, hotels, hospitals, schools, airports, underground rail systems, and similar facilities. Concentric conductor serves as an electromagnetic screen and may also be used as a neutral conductor.

Characteristics

Test voltage 4 Kv
Rated voltage 0,6/1 kV
Bending radius (min) up to 6 mm² - 6D / single-core - 15D / multicore - 12D
Min. laying temperature -15°C
Max. conductor temperature 90°C
Max. short-circuit temperature 250°C
CPR class Cca – s1, d1, a1

Standards

SFS 5546, HD 604 S1, SS 424 14 18

Regulatory Compliance

Construction

Conductors Cu, class1 or 2 according to EN 60228
Insulation XLPE compound
Bedding Extruded elastomere or plastomere compound or plastic tape
Concentric conductor Cu wires with counter helix of Cu tape
Sheath HFFR compound

Core Identification

According to HD 308 S2
3 core - Green & Yellow, Brown, Blue
3 core - Black, Brown, Grey
4 core - Green & Yellow, Brown, Black, Grey
4 core - Blue, Brown, Black, Grey
5 core - Green & Yellow, Blue, Brown, Black, Grey

Outer Sheath Colour
Black (other colours available on request)

THE COPPER MARK RESPONSIBLY PRODUCED COPPER

The Copper Mark Partnership
- IEWC promotes sustainable practices by our suppliers
- Copper Mark promotes seven of 17 UN Global Sustainability Goals
- Copper Mark recipients cover
- 20% of global copper production

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NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm2		Ω/km	A	A	mm	KG/KM	KG/KM
2x1.5/1.5	RE	12.1	18.5	26	9.4	43.2	138.87
2x2.5/2.5	RE	7.41	25	35	10.2	72	184.76
2x4/4	RE	4.61	-	-	11.3	115.2	251.02
2x6/6	RE	3.08	43	57	12.5	172.8	334.42
2x10/10	RM/RE	1.83	60	77	14.4	288	495.33
2x10/16	RM/RE	1.83	60	77	15.9	345.6	552.6
2x16/16	RM/RE	1.15	80	100	16.7	460.80	726.34
2x25/16	RM/RE	0.727	102	130	20	633.6	1013
2x35/16	RM	0.524	126	160	22.5	825.6	1297.3
2x6/2.5	RE	3.08	43	57	12.4	139.2	300
2x10/2.5	RM/RE	1.83	60	77	14.1	216	420.6
2x16/2.5	RM/RE	1.15	80	100	16	331.2	590.90
2x25/2.5	RM/RE	0.727	102	130	19.2	504	875.9
3x1.5/1.5	RE	12.1	18.5	26	9.9	57.6	157.8
3x2.5/2.5	RE	7.41	25	35	10.8	96	213.5
3x4/4	RE	4.61	-	-	11.9	153.6	294.3
3x6/6	RE	3.08	43	57	13.2	230.4	396.9
3x10/10	RM/RE	1.83	60	77	15.3	384	595.7
3x16/16	RM/RE	1.15	80	100	17.7	614.4	883.2
3x25/26	RM	0.727	102	130	21.1	873.6	1254.9
3x35/16	RM	0.524	126	160	23.7	1161.6	1629.5
3x50/25	SM	0.387	153	190	26.4	1680	1969.9
3x70/35	SM	0.268	195	240	30.3	2352	2714.1
3x95/50	SM	0.193	236	285	34.3	3216	3649.4
3x120/70	SM	0.153	274	325	38.4	4128	4648.7
3x150/70	SM	0.124	317	370	42.5	4992	5624.4
3x185/95	SM	0.0991	361	420	47.3	6240	7008.2
3x240/120	SM	0.0754	427	480	53.2	8084	8994.7
3x300/150	SM	0.0601	492	550	58.6	10080	11174.6

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NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm2		Ω/km	A	A	mm	KG/KM	KG/KM
4x1.5/1.5	RE	12.1	18.5	26	10.7	72	182.7
4x2.5/2.5	RE	7.41	25	35	11.7	120	249.8
4x4/4	RE	4.61	-	-	13	192	347.2
4x6/6	RE	3.08	43	57	14.4	288	471.3
4x10/10	RM/RE	1.83	60	77	16.7	480	712.3
4x10/16	RM/RE	1.83	60	77	18	537.6	770
4x16/16	RM/RE	1.15	80	100	19.3	768	1061.8
4x25/16	RM	0.727	102	130	23.2	1113.6	1530.5
4x35/16	SM	0.524	126	160	26	1497.6	2007.2
4x50/25	SM	0.387	153	190	29.2	2160	2511.2
4x70/35	SM	0.268	195	240	34.2	3024	3474
4x95/50	SM	0.193	236	285	38	4128	4655.7
4x120/70	SM	0.153	274	325	42.5	5280	5915.8
4x150/70	SM	0.124	317	370	41.7	6432	7208.2
4x185/95	SM	0.0991	361	420	52.5	8016	8962.2
4x240/120	SM	0.0754	427	480	59	10368	11516.9
4x300/150	SM	0.0601	492	550	65	12960	14313.2
6x10/16	RM/RE	1.83	60	77	20.9	729.6	946