ttcables
ELECTRIC CABLE WORKS



XCMK-HF, FXQJ, EXQJ, IFSI

Power cable 0,6/1 kV, with Cu conductors, XLPE insulated and HFFR sheathed, with concentric conductor

APPLICATION

Power cable suitable for fixed installation in dry and damp environment, on or under plaster, on cable trays, same as in walls and concrete. Not intended for direct laying in ground or water. For outdoor application can be laid in tubes, but in that case should be taken all precautionary measures necessary to prevent water penetration into the tubes. Suitable for supply systems in an emergency. Appropriate for application in all situations where people and material goods need to be protected in case of fire. Recommended for public buildings frequented by a lot of people, and for buildings of high material value, for industrial complexes, electric power plants, transformer stations, municipal facilities, hotels, shopping malls, hospitals, schools, airports, underground railways and similar. Concentric conductor serves as electromagnetic screen, which could also be applied as neutral conductor.

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

3-core (a): Green/Yellow Brown Blue
3-core (b): Black Brown Grey
4-core (a): Green/Yellow Brown Black Grey
4-core (b): Blue Brown Black Grey
5-core: Green/Yellow Blue Brown Black Grey

Outer Sheath Colour:

Black

Other colours available on request

TECHNICAL CHARACTERISTICS

Voltage rating (U_0/U): 0,6/1 kV
Min. temp. for cable laying: -40°C
Min. working temperature: -40°C
Max. working temperature: 90°C
Max. short-circuit temperature: 250°C
Min. bending radius: up to 6 mm²- 6D
single-core- 15D; multicore- 12D
CPR class: Cca – s1, d1, a1

STANDARD

SFS 5546, HD 604 S1, SS 424 14 18

CONSTRUCTION

Conductors: Cu, class 1 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, UV resistant

CERTIFICATION

CE RoHS compliant
IEC International Electrotechnical Commission
CPR
REACH COMPLIANT

THREE-CORE CABLES

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN GROUND	OUTER DIAM. (APPROX.)	CU WEIGHT	CABLE WEIGHT (APPROX.)
mm²		Ω/km	A	A	mm	kg/km	kg/km
3x10/10	RE	1,83	75	87	18,2	356	643
3x16/10	RE	1,15	100	113	20,1	516	859
3x25/16	RE	0,727	136	146	23,8	810	1267
3x6/6	RM	3,08	54	65	16,6	214	462
3x10/10	RM	1,83	75	87	18,4	356	651
3x16/16	RM	1,15	100	113	20,8	570	925
3x25/16	RM	0,727	136	146	24,0	810	1277
3x35/16	RM	0,524	165	176	26,4	1077	1628
3x35/16	SM	0,524	165	176	23,6	1077	1401
3x50/25	SM	0,387	201	208	25,9	1558	1930
3x70/35	SM	0,268	255	256	30,1	2181	2677
3x95/50	SM	0,193	314	307	33,6	2982	3558
3x120/70	SM	0,153	364	349	36,8	3827	4493
3x150/70	SM	0,124	416	391	41,3	4628	5479
3x185/95	SM	0,0991	480	442	45,9	5785	6791
3x240/120	SM	0,0754	565	509	51,1	7476	8713
3x300/150	SM	0,0601	643	569	55,6	9345	10772

FOUR-CORE CABLES

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN GROUND	OUTER DIAM. (APPROX.)	CU WEIGHT	CABLE WEIGHT (APPROX.)
mm²		Ω/km	A	A	mm	kg/km	kg/km
4x10/6	RE	1,83	75	87	19,2	409	715
4x10/10	RE	1,83	75	87	19,2	445	751
4x16/6	RE	1,15	100	113	20,9	623	972
4x16/10	RE	1,15	100	113	20,9	659	1008
4x1,5/1,5	RM	12,1	25	31	13,7	67	249
4x2,5/2,5	RM	7,41	33	40	14,7	111	316
4x4/4	RM	4,61	43	52	15,9	178	411
4x6/6	RM	3,08	54	65	17,7	267	535
4x10/10	RM	1,83	75	87	19,7	445	764
4x10/16	RM	1,83	75	87	20,1	498	821
4x16/16	RM	1,15	100	113	22,6	712	1099
4x25/16	RM	0,727	136	146	25,7	1032	1525
4x35/16	RM	0,524	165	176	28,3	1388	1968
4x35/16	SM	0,524	165	176	26,1	1388	1767
4x50/25	SM	0,387	201	208	29,1	2003	2456
4x70/35	SM	0,268	255	256	33,7	2804	3400
4x95/50	SM	0,193	314	307	37,5	3827	4521
4x120/70	SM	0,153	364	349	42,3	4895	5764
4x150/70	SM	0,124	416	391	46,3	5963	6984

FOUR-CORE CABLES

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN GROUND	OUTER DIAM. (APPROX.)	CU WEIGHT	CABLE WEIGHT (APPROX.)
mm²		Ω/km	A	A	mm	kg/km	kg/km
4x185/95	SM	0,0991	480	442	51,9	7432	8708
4x240/120	SM	0,0754	565	509	57,5	9612	11125
4x300/150	SM	0,0601	643	569	62,4	12015	13757

FIVE-CORE CABLES

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN GROUND	OUTER DIAM. (APPROX.)	CU WEIGHT	CABLE WEIGHT (APPROX.)
mm²		Ω/km	A	A	mm	kg/km	kg/km
5x10/10	RE	1,83	75	87	20,4	534	861
5x16/10	RE	1,15	100	113	22,5	801	1186
5x10/10	RM	1,83	75	87	21,1	534	885
5x16/16	RM	1,15	100	113	24,0	854	1275
5x25/16	RM	0,727	136	146	27,0	1255	1762
5x35/16	RM	0,524	165	176	30,1	1700	2313

MULTI-CORE CABLES

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN GROUND	OUTER DIAM. (APPROX.)	CU WEIGHT	CABLE WEIGHT (APPROX.)
mm²		Ω/km	A	A	mm	kg/km	kg/km
6x10/16	RE	1,83	75	87	21,8	587	923
6x10/2,5	RM	1,83	75	87	22,0	556	910
6x10/16	RM	1,83	75	87	25,8	676	1103
6x16/2,5	RM	1,15	100	113	28,0	877	1375
6x16/16	RM	1,15	100	113	32,4	997	1589