



MCMK

Screened power cable 0,6/1 kV with Cu conductors, PVC insulated and sheathed

APPLICATION

Distribution power cable for static outdoor application (with protection against direct UV-irradiation), in ground, within facilities, in cable canals, in concrete, in conditions where there is a danger of possible mechanical damages, but where the cable is not exposed either to systematic mechanical stress or heavier tensile strain. Used in electric power plants, transformer stations, industrial plants, metropolitan networks and other electric plants. Concentric conductor can be used as neutral, protective or earth connection, and in situations where the insulation might be roughly damaged by some metal object, it acts as protection against contact voltage. Corrugated, concentric conductor construction enables establishing of several cable connections without cutting of conductor.

CONSTRUCTION

Conductors: Cu, class 1 or 2 according to EN 60228
Insulation: PVC compound, type DIV 6
Bedding: Extruded elastomere or plastomere compound or plastic tape
Concentric conductor: Cu wires with counter helix of Cu tape
Sheath: PVC compound DMV 5

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

- 2-core: ● Brown ● Blue
- 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

CPR class (acc. to EN 13501-6): Eca
 Test voltage: 4 kV
 Rated voltage: 0,6/1 kV
 Bending radius (min): single-core – 15D;
 multicore- 12D
 Min. laying temperature: -15°C
 Max. conductor temperature: 70°C
 Max. short-circuit temperature: 160°C
 Working temperature range: -35°C to 70°C

STANDARD

SFS 4880, HD 603 S1, p.3F, IEC 60502-1

CERTIFICATION



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.)
mm ²		Ω/km	A	A	mm	kg/km	kg/km
2x1,5/1,5	RE	12,1	19,5	27	11,7	28,8	139
2x2,5/2,5	RE	7,41	26	36	12,5	48,0	176
2x4/4	RE	4,61	34	47	13,8	46,8	242
2x6/6	RE	3,08	43	57	14,4	115,2	410
2x10/10	RM	1,830	60	77	17,2	192,0	585
3x1,5/1,5	RE	12,1	19,5	27	12,2	43,2	162
3x2,5/2,5	RE	7,41	26	36	13,0	72,0	211
3x4/4	RE	4,61	34	47	14,7	115,2	296
3x6/6	RE	3,08	43	57	15,6	172,8	499
3x10/10	RM	1,830	60	77	18,1	288,0	733
3x16/16	RM	1,150	80	100	20,3	460,8	1032
3x25/16	RM	0,727	102	130	23,6	720,0	1428
3x35/16	SM	0,524	126	160	22,7	1008,0	1493
3x50/25	SM	0,387	153	190	25,6	1440,0	2088
3x70/35	SM	0,268	195	240	28,7	2016,0	2823
3x95/50	SM	0,193	236	285	33,8	2736,0	3870
3x120/70	SM	0,153	274	325	36,5	3456,0	4846
3x150/70	SM	0,124	317	370	40,2	4320,0	5848
3x185/95	SM	0,0991	361	420	45,1	5328,0	7338
3x240/120	SM	0,0754	427	480	50,3	6912,0	9375
4x1,5/1,5	RE	12,1	19,5	27	12,9	575,6	188
4x2,5/2,5	RE	7,41	26	36	13,9	96,0	248
4x4/4	RE	4,61	34	47	15,6	153,6	353
4x6/6	RE	3,08	43	57	16,8	230,4	586
4x10/10	RM	1,830	60	77	19,6	384,0	865
4x16/16	RM	1,150	80	100	22,0	614,4	1228
4x25/16	RM	0,727	102	130	25,7	960,0	1725
4x35/16	SM	0,524	126	160	25,8	1344,0	1905
4x50/25	SM	0,387	153	190	29,1	1920,0	2668
4x70/35	SM	0,268	195	240	32,6	2688,0	3604
4x95/50	SM	0,193	236	285	38,0	3648,0	4934
4x120/70	SM	0,153	274	325	41,5	4608,0	6168
4x150/70	SM	0,124	317	370	45,2	5760,0	7481
4x185/95	SM	0,0991	361	420	50,6	7104,0	9355
4x240/120	SM	0,0754	427	480	56,5	9216,0	11980

TWO-CORE CABLES WITH BEDDING:

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.)
mm ²		Ω/km	A	A	mm	kg/km	kg/km
2x10/10	RM	1,830	60	77	18,2	192,0	620
2x16/16	RM	1,150	80	100	20,3	307,2	819
2x25/16	RM	0,727	102	130	23,3	480,0	1107

