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 risk of potential mechanical damages, but where the cable is not exposed either to continuous mechanical stress or heavier tensile load. Used in power plants, transformer stations, industrial plants, metropolitan networks and other industrial areas.
Concentric conductor can be used as neutral, protective or earthed conductor. Simultaneously, this is also permitted to apply as a screen for example earth-connected protection against contact. Design of concentric conductor enables multiple cable connections without cutting the conductor.

TECHNICAL CHARACTERISTICS

CPR class (acc. to EN 13501-6): Eca
Test voltage: 4 kV AC, 50 Hz, 5 min.
Rated voltage: 0,6/1 kV
Bending radius (min): single-core – 15D; multi-core- 12D, D – overall diameter
Min. laying temperature: -15°C
Max. conductor operating temperature: 70°C
Max. short-circuit temperature: 160°C
Working temperature range: -35°C to 70°C
Flame retardant: EN 60332-1-2

CONSTRUCTION

Conductors: Cu, class 1 or 2 according to EN 60228
Insulation: PVC compound, type DIV 6
Bedding: Extruded filling compound or plastic tape
Concentric conductor: Copper wires and copper tape helically (spirally) applied
Sheath: PVC compound DMV 5

STANDARD

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

CERTIFICATION

International Electrotechnical Commission

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

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	43	134
2x2,5/2,5	RE	7,41	26	36	12,5	72	166
2x4/4	RE	4,61	34	47	13,8	115	225
2x6/6	RE	3,08	43	57	14,4	173	302
2x10/10	RM	1,830	60	77	17,2	288	431
3x1,5/1,5	RE	12,1	19,5	27	11,4	58	160
3x2,5/2,5	RE	7,41	26	36	12,2	96	210
3x4/4	RE	4,61	34	47	14,2	154	300
3x6/6	RE	3,08	43	57	15,3	230	393
3x10/10	RM	1,830	60	77	17,3	384	574
3x16/16	RM	1,150	80	100	19,5	614	835
3x25/16	RM	0,727	102	130	22,7	874	1157
3x35/16	RM	0,524	126	160	25,0	1162	1477
3x35/16	SM	0,524	126	160	21,8	1162	1470
3x50/25	SM	0,387	153	190	24,6	1680	2061
3x70/35	SM	0,268	195	240	27,6	2352	2796
3x95/50	SM	0,193	236	285	31,2	3216	3783
3x120/70	SM	0,153	274	325	34,1	4128	4769
3x150/70	SM	0,124	317	370	38,1	4992	5784
3x185/95	SM	0,0991	361	420	42,4	6240	7209
3x240/120	SM	0,0754	427	480	47,7	8064	9263
4x1,5/1,5	RE	12,1	19,5	27	12,1	72	189
4x2,5/2,5	RE	7,41	26	36	13,1	120	251
4x4/4	RE	4,61	34	47	15,3	192	363
4x6/6	RE	3,08	43	57	16,6	288	478
4x10/10	RM	1,830	60	77	18,7	480	702
4x16/16	RM	1,150	80	100	21,2	768	1027
4x25/16	RM	0,727	102	130	24,8	1114	1451
4x35/16	RM	0,524	126	160	27,5	1162	1506
4x35/16	SM	0,524	126	160	24,5	1162	1492
4x50/25	SM	0,387	153	190	27,9	1680	2094
4x70/35	SM	0,268	195	240	31,4	2352	2841
4x95/50	SM	0,193	236	285	36,1	3216	3850
4x120/70	SM	0,153	274	325	39,4	4128	4845
4x150/70	SM	0,124	317	370	43,4	4992	5860
4x185/95	SM	0,0991	361	420	48,3	8016	9250
4x240/120	SM	0,0754	427	480	54,4	8064	9377

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.)
mm²		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