ttcables
ELECTRIC CABLE WORKS

NAYCWY

Power cable 0,6/1 kV with Al conductors, PVC insulated and sheathed

APPLICATION

Distribution power cable for static outdoor application (with protection against direct UV-irradiation), in ground, in water, 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.

TECHNICAL CHARACTERISTICS

Test voltage: 4 Kv
Rated voltage: 0,6/1 kV
Bending radius (min): single-core- 15D; multicore- 12D
Min. laying temperature: -5°C
Max. conductor temperature: 90°C
Max. short-circuit temperature: 250°C

CONSTRUCTION

Conductors: Al, class 1 or 2, according to EN 60228
Insulation: PVC compound
Bedding: Extruded elastomere or plastomere compound or plastic tape
Concentric conductor: Cu wires (wave-form) with counter helix of Cu tape
Sheath: PVC compound

STANDARD

VDE 0276-603, HD 603 S1, IEC 60502-1, EN 60332-1-2

CERTIFICATION

CE RoHS compliant REACH COMPLIANT IEC International Electrotechnical Commission

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

THREE- CORE CABLES:

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
3x10/10	RE	3,080	-	-	16,7	87,0	515,7
3x16/16	RM	1,910	-	-	19,1	139,2	700,8
3x25/16	RM	1,200	83	103	22,5	217,5	928,3
3x35/16	RM	0,868	101	123	25,1	304,5	1125,4
3x50/25	SM/SE	0,641	121	145	29,1	435,0	1108,5
3x70/35	SM/SE	0,443	155	180	32,6	609,0	1453,0
3x95/50	SM/SE	0,320	189	216	37,5	826,5	1959,6
3x120/70	SM/SE	0,253	220	246	41,1	1044,0	2458,3
3x150/70	SM/SE	0,206	249	276	45,2	1305,0	2872,0
4x10/10	RE	3,080	-	-	18,2	116,0	585,3
4x16/16	RM	1,910	-	-	20,9	185,6	795,7
4x25/16	RM	1,200	83	103	24,7	290,0	1067,4
4x35/16	RM	0,868	101	123	27,6	406,0	1304,3
4x50/25	SM/SE	0,641	121	145	32,1	580,0	1356,6
4x70/35	SM/SE	0,443	155	180	35,9	812,0	1777,4
4x95/50	SM/SE	0,320	189	216	41,4	1102,0	2394,8
4x120/70	SM/SE	0,253	220	246	45,4	1392,0	2987,8
4x150/70	SM/SE	0,206	249	276	50,1	1740,0	3530,9
4x185/95	SM/SE	0,164	287	313	55,4	2146,0	4408,9
4x240/120	SM/SE	0,125	339	362	62,88	2784,0	5618,5