



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.

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

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

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

Fire properties: EN 60331-2

STANDARD

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

CERTIFICATION



International
Electrotechnical
Commission

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.)
mm ²		Ω/km	A	A	mm	kg/km	kg/km
3x10/10	RE	3,080	-	-	16,7	87,0	515
3x16/16	RM	1,910	-	-	19,1	139,2	700
3x25/16	RM	1,200	83	103	22,5	217,5	928
3x35/16	RM	0,868	101	123	25,1	304,5	1125
3x50/25	SM	0,641	121	145	29,1	435,0	1108
3x70/35	SM	0,443	155	180	32,6	609,0	1453
3x95/50	SM	0,320	189	216	37,5	826,5	1959
3x120/70	SM	0,253	220	246	41,1	1044,0	2458
3x150/70	SM	0,206	249	276	45,2	1305,0	2872
3x185/95	SM	0,164	287	313	47,0	1609,5	3675
3x240/120	SM	0,125	339	362	51,0	2088,0	4675
4x10/10	RE	3,080	-	-	18,2	116,0	585
4x16/16	RM	1,910	-	-	20,9	185,6	795
4x25/16	RM	1,200	83	103	24,7	290,0	1067
4x35/16	RM	0,868	101	123	27,6	406,0	1304
4x50/25	SM	0,641	121	145	32,1	580,0	1356
4x70/35	SM	0,443	155	180	35,9	812,0	1777
4x95/50	SM	0,320	189	216	41,4	1102,0	2394
4x120/70	SM	0,253	220	246	45,4	1392,0	2987
4x150/70	SM	0,206	249	276	50,1	1740,0	3530
4x185/95	SM	0,164	287	313	55,4	2146,0	4408
4x240/120	SM	0,125	339	362	62,9	2784,0	5618
4x300/150	SM	0,100	401	415	69,4	3480,0	7580