



NYCWY

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, 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: Cu, class 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:

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

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

CERTIFICATION



NOMINAL CROSS-SECTION	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
2x4/4	4,61	34	50	13,9	122,4	352
2x6/6	3,08	44	62	15,0	183,6	449
2x10/10	1,83	60	83	17,0	306,0	631
2x16/16	1,15	80	107	19,2	189,6	890
2x25/16	0,727	108	138	22,4	673,2	1218
2x25/25	0,727	108	138	22,5	765,0	1311
2x50/25	0,387	160	195	28,5	1275,0	2136

NOMINAL CROSS-SECTION	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
3x4/4	4,61	34	50	15,4	163,2	437,0
3x6/6	3,08	44	62	16,6	244,8	554,0
3x10/10	1,83	60	83	16,9	408,0	709,0
3x16/16	1,15	80	107	20,7	652,8	1093,0
3x25/16	0,727	108	138	24,0	928,2	1510,0
3x35/16	0,524	132	164	25,2	1234,2	1571,0
3x35/35	0,524	132	164	25,5	1428,0	1767,0
3x50/25	0,387	160	195	29,1	1785,0	2220,0
3x50/50	0,387	160	195	29,6	2040,0	2480,0
3x70/35	0,268	202	238	32,6	2499,0	3007,0
3x70/70	0,268	202	238	33,2	2856,0	3370,0
3x95/50	0,193	249	286	37,6	3417,0	4077,0
3x95/95	0,193	249	286	38,3	3876,0	4543,0
3x120/70	0,153	289	286	41,1	4386,0	5133,0
3x120/120	0,153	289	286	41,8	4896,0	5650,0
3x150/70	0,124	329	365	45,2	5304,0	6196,0
3x150/150	0,124	329	365	46,2	6120,0	7024,0
3x185/95	0,0991	377	413	50,1	6630,0	7715,0
3x240/120	0,0754	443	479	56,8	8568,0	9910,0

NOMINAL CROSS-SECTION	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
4x4/4	4,61	34	50	16,5	204,0	507,2
4x4/6	4,61	34	50	16,6	224,4	528,5
4x6/6	3,08	44	62	17,8	306,0	648,2
4x10/10	1,83	60	83	20,0	510,0	917,4
4x16/16	1,15	80	107	22,4	816,0	1301,2
4x25/16	0,727	108	138	26,1	1183,2	1824,3
4x35/16	0,524	132	164	27,5	1591,2	1993,1
4x50/25	0,387	160	195	32,1	2295,0	2833,9
4x70/35	0,268	202	238	35,9	3213,0	3840,6
4x95/50	0,193	249	286	41,5	4386,0	5200,8
4x120/70	0,153	289	286	45,4	5610,0	6533,8
4x150/70	0,124	329	365	50,1	6834,0	7959,6
4x185/95	0,0991	377	413	55,4	8517,0	9867,9
4x240/120	0,0754	443	479	62,9	11016,0	12698,5
4x300/150	0,0601	504	518	69,4	13770,0	15786,4

