NAYCWY

Power cable, 0,6/1 kV, with concentric copper conductor

Technical data

- Power distribution cable acc. to DIN VDE 0276-603 / HD 603 S1 / IEC 60502
- **Temperature range** flexing -5°C to +50°C fixed installation -40°C to +70°C
- Permissible **operating temperature** at conductor +70°C
- Permissible **short circuit temperature** (short circuit duration max. 5 s) +160°C
- **Nominal voltage** U_0/U 0,6/1 kV
- **Test voltage** 4 kV
- **Minimum bending radius** 12x outer Ø

Cable structure

- Aluminium conductor, single wire or multi wire acc. to DIN VDE 0295 cl.1 or cl.2 / IEC 60228 cl.1 or cl.2
- Core insulation of PVC compound type DIV4 acc.to HD 603 S1
- Core identification acc. to DIN VDE 0293-308
- Cores stranded concentrically
- Filling compound
- Concentric conductor (Ceander), inner layer of corrugated copper wires, outer layerwith copper tape
- Outer sheath of PVC compound type DMV5 acc. to HD 603 S1
- Sheath colour: black

Properties

- The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

Tests

- Flame retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2

Highest permissible voltage

- Direct current systems
  - Conductor/conductor 1,8 kV
  - Conductor/earth 0,9 kV
- Alternating current systems
  - Single phase systems both outer conductors insulated 1,4 kV
  - Single phase systems one outer conductor earthed 0,7 kV
- Three phase systems 1,2 kV with concentric conductor and a cross section from 240 mm² 3,6 kV

Note

- re = round conductor, single wire
  rm = round conductor, multi wire
  sm = sectional conductor, multi wire
- Part no. 17000053 in reference to VDE Designation (N)AYCWY
- The conductor is metrically constructed (mm²). The AWG designation is approximate and purely informative.

Application

Power distribution cables, preferably used for underground installation, primarily in local networks, for industrial applications and switching systems, power stations. Wherever increased electrical and mechanical protection are required. Installation in water, outdoors, in concrete, indoors and in cable ducts. TThe concentric conductor (C) may be used as PE, PEN conductor or as a shield according to national regulations. The corrugated design (Ceander) of the conc entric conductor permits any number of cable junctions during assembly, without any conductors having to be cut. This ensures a optimal reliability.

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

Part no.	No.cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Alu weight kg / km	Weight app. kg / km	AWG-No.
36009	3 x 10 re / 10	20,2	88,0	87,0	603,0	8
36010	3 x 16 re / 16	22,3	125,0	139,0	754,0	6
36011	3 x 25 re / 25	25,5	170,0	218,0	1043,0	4
36012	3 x 25 rm / 16	26,6	125,0	218,0	1046,0	4
36013	3 x 25 rm / 25	26,6	170,0	218,0	1101,0	4
36014	3 x 35 re / 35	27,6	240,0	305,0	1243,0	2
36015	3 x 35 sm / 16	26,4	125,0	305,0	1002,0	2
36016	3 x 35 sm / 35	26,4	240,0	305,0	1107,0	2
36017	3 x 50 sm / 25	29,4	170,0	435,0	1283,0	1
36018	3 x 70 sm / 35	32,6	240,0	609,0	1633,0	2/0
36019	3 x 70 sm / 70	33,4	475,0	609,0	1838,0	2/0
36020	3 x 95 sm / 50	38,1	340,0	827,0	2136,0	3/0
36021	3 x 95 sm / 95	38,1	640,0	827,0	2449,0	3/0
36022	3 x 120 sm / 50	40,8	340,0	1044,0	2517,0	4/0
36023	3 x 120 sm / 70	40,8	475,0	1044,0	2612,0	4/0
36024	3 x 150 sm / 70	44,9	475,0	1305,0	3019,0	300 kcmil
36025	3 x 150 sm / 150	45,5	1000,0	1305,0	3517,0	300 kcmil
36026	3 x 185 sm / 70	49,8	475,0	1610,0	3741,0	350 kcmil
36027	3 x 185 sm / 95	49,8	640,0	1610,0	3895,0	350 kcmil
36028	3 x 240 sm / 70	55,4	475,0	2088,0	4539,0	500 kcmil
36029	3 x 240 sm / 120	55,8	800,0	2088,0	4838,0	500 kcmil
36030	3 x 240 sm / 240	56,0	1665,0	2088,0	5611,0	500 kcmil

Continuation ▸

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Part no.	No.cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Alu weight kg / km	Weight app. kg / km	AWG-No.
32840	4 x 16 re / 16	23,9	125,0	186,0	801,0	6
32841	4 x 25 re / 16	28,9	125,0	290,0	1243,0	4
32842	4 x 35 re / 16	30,3	125,0	406,0	1282,0	2
32843	4 x 50 sm / 25	34,8	170,0	580,0	1689,0	1
32844	4 x 70 sm / 35	38,6	240,0	814,0	2074,0	2/0
32845	4 x 95 sm / 50	44,4	340,0	1102,0	2779,0	3/0
32846	4 x 120 sm / 70	48,7	475,0	1392,0	3365,0	4/0
32847	4 x 150 sm / 70	53,3	475,0	1740,0	3813,0	300 kcmil
32848	4 x 185 sm / 95	59,1	640,0	2146,0	4877,0	350 kcmil
32849	4 x 240 sm / 120	66,0	800,0	2784,0	6017,0	500 kcmil
17000053	4 x 300 sm / 150	69,0	1000,0	3480,0	8080,0	600 kcmil

Dimensions and specifications may be changed without prior notice.