NYCWY

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
- **Caloric load values** see "Technical Information"

Cable structure

- Bare copper 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 concentrically stranded
- Filling compound
- Concentric conductor (Ceander), inner layer of corrugated copper wires, outer layer with 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 of 240 mm² and above 3,6 kV

Note

- re = round conductor, single wire
  rm = round conductor, multi wire
  sm = sectional conductor, multi wire
- Part no. 11020520, 11020521 in reference to VDE Designation (N)YCWY
- The conductor is metrically constructed (mm²). The AWG designation is approximate and purely informative.

Application

Power cables for energy supply are used for industry and distribution boards, power stations, house connecting boxes and street lighting as well as control cable for the transmission of control impulses and test datas. Overall, where increased electrical and also mechanical protection are required. Those cables are installed in open air, in underground, in water, in concrete, indoors and in cable ducts. The concentric conductor (C) may be used as PE, PEN conductor or as a shield according to national regulations. The corrugated design (Ceander) of the concentric 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	Weight app. kg / km	AWG-No.
11019913	1 x 240 rm / 120	33,0	3456,0	4021,0	500 kcmil
32260	2 x 10 re / 10	19,0	312,0	650,0	8
32261	2 x 16 re / 16	21,0	489,0	850,0	6
32262	2 x 25 rm / 25	24,0	763,0	1210,0	4
11020520	2 x 120 rm / 70	43,2	3084,0	4591,0	4/0
11020521	2 x 240 rm / 120	59,3	5938,0	8799,0	500 kcmil

Continuation ▸

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Part no.	No.cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
32263	3 x 10 re / 10	21,0	408,0	730,0	8
32264	3 x 16 re / 16	22,0	643,0	1000,0	6
11017477	3 x 16 rm / 16	22,9	643,0	1050,0	6
32265	3 x 25 rm / 16	28,0	902,0	1550,0	4
32274	3 x 25 rm / 25	28,0	1003,0	1600,0	4
32266	3 x 35 sm / 16	28,5	1190,0	1750,0	2
32275	3 x 35 sm / 35	28,5	1402,0	1850,0	2
32267	3 x 50 sm / 25	31,5	1723,0	2250,0	1
32276	3 x 50 sm / 50	31,5	2000,0	2450,0	1
32268	3 x 70 sm / 35	35,5	2410,0	2950,0	2/0
32277	3 x 70 sm / 70	36,5	2796,0	3350,0	2/0
32269	3 x 95 sm / 50	40,5	3296,0	4100,0	3/0
32278	3 x 95 sm / 95	40,5	3791,0	4550,0	3/0
32270	3 x 120 sm / 70	43,5	4236,0	5050,0	4/0
32279	3 x 120 sm / 120	44,5	4786,0	5550,0	4/0
32271	3 x 150 sm / 70	47,5	5100,0	6000,0	300 kcmil
32280	3 x 150 sm / 150	48,5	5970,0	6900,0	300 kcmil
32272	3 x 185 sm / 95	50,0	6383,0	7550,0	350 kcmil
32281	3 x 185 sm / 185	51,0	7363,0	8500,0	350 kcmil
32273	3 x 240 sm / 120	57,0	8242,0	9950,0	500 kcmil
72343	3 x 300 sm / 150	61,0	10360,0	11768,0	600 kcmil
32282	4 x 10 re / 10	22,0	504,0	890,0	8
32283	4 x 16 re / 16	25,0	796,0	1250,0	6
32284	4 x 25 rm / 16	30,5	1142,0	1800,0	4
32285	4 x 35 sm / 16	31,5	1526,0	2050,0	2
32286	4 x 50 sm / 25	35,5	2203,0	2700,0	1
32287	4 x 70 sm / 35	39,5	3082,0	3750,0	2/0
32289	4 x 120 sm / 70	49,5	5388,0	6350,0	4/0
32288	4 x 95 sm / 50	43,5	4208,0	5000,0	3/0
32290	4 x 150 sm / 70	51,0	6540,0	7650,0	300 kcmil
32291	4 x 185 sm / 95	56,0	8159,0	9350,0	350 kcmil
32292	4 x 240 sm / 120	62,5	10546,0	11600,0	500 kcmil
11008493	4 x 300 sm / 150	69,0	13170,0	15100,0	600 kcmil

Dimensions and specifications may be changed without prior notice. (RQ01)