NYCY / (N)YCY

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

Technical data

- Power and control cable,
  - **NYCY** acc. to DIN VDE 0276-603 / HD 603 S1 / IEC 60502 7 cores and above acc. to DIN VDE 0276-627 / HD 627 S1 / IEC 60502
  - **(N)YCY** in alignment with DIN VDE 0276-627 / HD 627 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**
  single core 15x Outer-Ø
  multi core 12x Outer-Ø
- **Caloric load values**
  see "Technical Information"

Cable structure

- Bare copper conductor, single wire acc. to DIN VDE 0295 cl.1 / IEC 60228 cl.1
- Core insulation of PVC compound type DIV4 acc. to HD 603 S1
- Core identification acc.to DIN VDE 0293-308
- Cores stranded in concentric layers
- Filling compound
- Concentric conductor in inner layer of round 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
- 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.

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

NYCY

Part no.	No.cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
32200	1 x 10 re / 10	11,0	216,0	280,0	8
32201	1 x 16 re / 16	12,0	336,0	440,0	6
32202	2 x 1,5 re / 1,5	13,0	52,0	205,0	16
32203	2 x 2,5 re / 2,5	13,5	80,0	270,0	14
32204	2 x 4 re / 4	15,5	123,0	360,0	12
32205	2 x 6 re / 6	17,0	182,0	435,0	10
32206	2 x 10 re / 10	19,5	312,0	590,0	8
32207	2 x 16 re / 16	20,5	489,0	820,0	6
32208	3 x 1,5 re / 1,5	13,5	66,0	225,0	16
32209	3 x 2,5 re / 2,5	14,5	104,0	290,0	14
32210	3 x 4 re / 4	16,5	161,0	400,0	12
32211	3 x 6 re / 6	17,5	240,0	510,0	10
32212	3 x 10 re / 10	20,0	408,0	850,0	8
32213	3 x 16 re / 16	23,0	643,0	1080,0	6

Continuation ▸

NYCY / (N)YCY

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

NYCY

Part no.	No.cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
32214	4 x 1,5 re / 1,5	14,5	81,0	260,0	16
32215	4 x 2,5 re / 2,5	15,5	128,0	350,0	14
32216	4 x 4 re / 4	17,0	200,0	470,0	12
32217	4 x 6 re / 6	18,5	297,0	590,0	10
32218	4 x 10 re / 10	21,0	504,0	900,0	8
32219	4 x 16 re / 16	23,0	796,0	1250,0	6
32220	5 x 1,5 re / 1,5	15,0	95,0	330,0	16
32221	5 x 2,5 re / 2,5	16,0	152,0	400,0	14
32222	5 x 4 re / 4	19,0	238,0	560,0	12
32223	5 x 6 re / 6	21,0	355,0	710,0	10
32224	5 x 10 re / 10	23,0	600,0	1000,0	8
32227	7 x 1,5 re / 2,5	16,0	133,0	350,0	16
32241	7 x 2,5 re / 2,5	17,5	200,0	450,0	14
32225	7 x 4 re / 4	21,0	315,0	670,0	12
32229	8 x 1,5 re / 2,5	17,0	147,0	400,0	16
32242	8 x 2,5 re / 2,5	18,0	224,0	510,0	14
11025318	8 x 4 re / 4	22,2	360,0	796,0	12
32230	10 x 1,5 re / 2,5	19,0	176,0	440,0	16
32243	10 x 2,5 re / 4	20,5	286,0	600,0	14
32231	12 x 1,5 re / 2,5	20,0	205,0	500,0	16
32244	12 x 2,5 re / 4	21,0	334,0	660,0	14
72402	12 x 4 re / 6	24,5	528,0	1060,0	12
32232	14 x 1,5 re / 2,5	20,5	234,0	540,0	16
32246	14 x 2,5 re / 6	22,5	403,0	800,0	14
32233	16 x 1,5 re / 4	22,0	276,0	600,0	16
32247	16 x 2,5 re / 6	23,0	451,0	910,0	14
32234	19 x 1,5 re / 4	23,0	320,0	690,0	16
32248	19 x 2,5 re / 6	23,5	523,0	950,0	14
32235	21 x 1,5 re / 6	24,0	369,0	810,0	16
32249	21 x 2,5 re / 10	26,0	571,0	1100,0	14
32236	24 x 1,5 re / 6	26,0	413,0	860,0	16
32250	24 x 2,5 re / 10	28,0	696,0	1300,0	14
32237	30 x 1,5 re / 6	27,0	499,0	1230,0	16
32251	30 x 2,5 re / 10	30,0	840,0	1610,0	14
32238	40 x 1,5 re / 10	30,0	696,0	1590,0	16
32252	40 x 2,5 re / 10	35,0	1080,0	2100,0	14
32239	52 x 1,5 re / 10	32,0	869,0	1820,0	16
32253	52 x 2,5 re / 10	38,0	1368,0	2500,0	14
32240	61 x 1,5 re / 10	33,0	998,0	2000,0	16
32254	61 x 2,5 re / 10	40,0	1584,0	2850,0	14

(N)YCY

Part no.	No.cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
32226	7 x 1,5 re / 1,5	16,0	124,0	320,0	16
32255	7 x 6 re / 6	24,0	470,0	790,0	10
32228	8 x 1,5 re / 1,5	17,0	138,0	380,0	16
11025319	8 x 6 re / 6	22,7	535,0	1019,0	10
11025321	8 x 10 re / 10	26,5	902,0	1412,0	8
11025320	12 x 6 re / 10	27,0	794,0	1272,0	10
32245	14 x 2,5 re / 4	22,0	382,0	760,0	14

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