



### Technical data

- Power and control cable to DIN VDE 0276 part 603, HD 603 S1 and 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
- Max. permissible **tensile stress** with cable grip at conductor 50 N/mm<sup>2</sup>
- **Minimum bending radius** 12x cable Ø
- **Power ratings table** see Technical Informations
- **Caloric load values** see Technical Informations

### Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.1 or cl.2, single-wire or multi-wire, BS 6360 cl.1 or cl.2, IEC 60228 cl.1 or cl.2
- Core insulation of PVC compound type DIV4 to HD 603 S1
- Core identification 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 to HD 603 S1
- Sheath colour black

### Properties

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- **Tests**  
• PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- **Highest permissible voltage**  
• Direct current systems 1,8 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 mm<sup>2</sup> and above 3,6 kV

### Note

- re = round conductor, single-wire  
rm = round conductor, multi-wire  
sm = sectional conductor, multi-wire
- Available with outer sheath in alternative colours on request
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

### 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) is allowed to use as PE-, PEN-conductor or as screen. 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 = The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
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
32263	3 x 10 re / 10	19,5	408,0	730,0	8
32264	3 x 16 re / 16	22,0	643,0	1000,0	6
32265	3 x 25 rm / 16	26,0	902,0	1550,0	4
32274	3 x 25 rm / 25	26,0	1003,0	1600,0	4
32266	3 x 35 sm / 16	27,0	1190,0	1750,0	2
32275	3 x 35 sm / 35	27,5	1402,0	1850,0	2
32267	3 x 50 sm / 25	29,5	1723,0	2250,0	1
32276	3 x 50 sm / 50	29,5	2000,0	2450,0	1
32268	3 x 70 sm / 35	33,0	2410,0	2950,0	2/0
32277	3 x 70 sm / 70	34,0	2796,0	3350,0	2/0
32269	3 x 95 sm / 50	38,0	3296,0	4100,0	3/0
32278	3 x 95 sm / 95	38,5	3791,0	4550,0	3/0
32270	3 x 120 sm / 70	41,0	4236,0	5050,0	4/0
32279	3 x 120 sm / 120	42,0	4786,0	5550,0	4/0
32271	3 x 150 sm / 70	45,0	5100,0	6000,0	300 kcmil
32280	3 x 150 sm / 150	46,0	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
32282	4 x 10 re / 10	20,5	504,0	890,0	8
32283	4 x 16 re / 16	23,5	796,0	1250,0	6

Continuation ▶

# NYCWY power cable, 0,6/1kV, with concentric copper conductor, VDE approved



Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
32284	4 x 25 rm / 16	28,0	1142,0	1800,0	4
32285	4 x 35 sm / 16	29,0	1526,0	2050,0	2
32286	4 x 50 sm / 25	33,0	2203,0	2700,0	1
32287	4 x 70 sm / 35	37,0	3082,0	3750,0	2/0
32288	4 x 95 sm / 50	43,5	4208,0	5000,0	3/0
32289	4 x 120 sm / 70	47,0	5388,0	6350,0	4/0
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

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