



Technical data

- Power and control cable to DIN VDE 0276 part 603, HD 603 S1 and IEC 60502
- Insulation and jacket-compound of thermoplastic PVC
- **Temperature range** flexing - 5°C to +50°C fixed installation -30°C to +70°C
- **Nominal voltage** U_0/U 0,6/1 kV
- **Test voltage** 4 kV
- Max. permissible **tensile stress** with cable grip for Cu-conductor = 50 N/mm²
- **Minimum bending radius** for multi core approx. 12 x cable \varnothing
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Cable structure

- Plain copper conductor, to DIN VDE 0295 cl. 1 or cl. 2 solid or stranded type, BS 6360 cl. 1 or cl. 2, IEC 60228, HD 383
- PVC core insulation, DIV4 to HD 603.1
- Cores stranded concentrically
- Colour coded to DIN VDE 0293, 0276 part 603 or HD 186
- Core colour for 3+1/2 conductor
 - J-type gnye (1/2), bk, bu, bn
 - O-type bk, bu (1/2), bn, bk
- PVC outer jacket black, DMV5 to HD 603.1 sheath colour black
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/EN 50265-2-1/IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

**Power ratings table see page T 20f
Caloric load values see page T 67**

Application

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations, for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

Attention should be paid to DIN VDE 0298 part 1 and 0276 part 603.

- Highest permissible voltage**
- Direct current systems 1,8 kV
 - Alternating current systems, single-phase systems 1,4 kV
 - Both conductors insulated, single-phase systems 0,7 kV
 - One conductor earthed, three-phase systems 1,2 kV
 - With concentric conductor and a cross-section of 240 mm² and above 3,6 kV

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

No. cores x cross-sec. mm ²	Outer \varnothing ca. mm	Cop. weight kg / km	Weight ca. kg / km	J-type Part no.	O-type Part no.	AWG-no.1)
3+1/2 conductors*						
3 x 25/16 mm/re	24,5	874	1530	32035	32123	4
3 x 35/16 sm/re	26,0	1162	1750	32036	32124	2
3 x 50/25 sm/rm	29,0	1680	2350	32037	32125	1
3 x 70/35 sm/sm	32,0	2352	2850	32038	32126	2/0
3 x 95/50 sm	38,0	3216	3850	32039	32127	3/0
3 x 120/70 sm	41,0	4128	4780	32040	32128	4/0
3 x 150/70 sm	46,0	4992	5800	32041	32129	300 kcmil
3 x 185/95 sm	51,0	6240	7600	32042	32130	350 kcmil
3 x 240/120 sm	58,0	8064	9800	32043	32131	500 kcmil
3 x 300/150 sm	64,0	10080	11500	32256	-	600 kcmil
4 x 1,5 re	12,0	58	230	32044	32132	16
4 x 2,5 re	13,5	96	300	32045	32133	14
4 x 4 re	15,0	154	410	32046	32134	12
4 x 6 re	16,5	230	520	32047	32135	10
4 x 10 re	18,5	384	730	32048	32136	8
4 x 16 re	21,5	614	1045	32049	32137	6
4 x 25 mm	26,0	960	1640	32050	32138	4
4 x 35 sm	27,5	1344	1760	32051	32139	2
4 x 50 sm	30,0	1920	2350	32052	32140	1
4 x 70 sm	34,0	2688	3100	32053	32141	2/0
4 x 95 sm	39,0	3648	4250	32054	32142	3/0
4 x 120 sm	42,5	4608	5300	32055	32143	4/0
4 x 150 sm	47,5	5760	6400	32056	32144	300 kcmil
4 x 185 sm	52,0	7104	8500	32057	32145	350 kcmil
4 x 240 sm	58,0	9216	11000	32058	32146	500 kcmil
5 x 1,5 re	13,0	72	270	32059	32147	16
5 x 2,5 re	14,5	120	360	32060	32148	14
5 x 4 re	16,5	192	490	32061	32149	12
5 x 6 re	18,0	288	600	32062	32150	10
5 x 10 re	20,0	480	890	32063	32151	8
5 x 16 re	22,5	768	1255	32064	32152	6
5 x 25 mm	28,0	1200	1960	32065	-	4
5 x 35 mm	34,0	1680	2400	32300	-	2
5 x 50 mm	40,0	2400	3500	32257	-	1

*** Note**

In respect to 3+1/2 conductors

Whereby only one conductor is allowed to contain a smaller cross-section (as per DIN VDE 0276 part 603 table 5) and permitted to place as insulated core (green-yellow and blue as 1/2-conductor), stranded in layer.

PVC cables will be changed to lead free PVC successively.
re = solid, round core. rm = stranded, round core. sm = stranded, sectional core.
Also available in NYFCBY, NYBY versions etc.

Continuation ►