



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 +90°C
- Permissible **short circuit temperature** (short circuit duration max. 5 s) +250°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/mm²
- **Minimum bending radius**
single-core 15x cable Ø
multi-core 12x cable Ø

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 cross-linked polyethylene (XLPE) compound type DIX3 to HD 603 S1
- Core identification to DIN VDE 0293-308, 0276 part 603
- Cores stranded in concentric layers
- Outer sheath of PVC compound type DMV6/DMP2 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
- 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

Note

- re = round conductor, single-wire
- rm = round conductor, multi-wire
- sm = sectional conductor, multi-wire
- J-version = with GN-YE conductor
- O-version = without GN-YE conductor
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

Power distribution cables for use in underground, in water, outdoors, in concrete, indoors, in cable ducts, for power stations, industrial applications and switching systems, as well as in local networks if no mechanical damage is expected. Respecting the permissible operating temperature at the conductor of +90°C permits a higher current carrying capacity than PVC insulated power distribution cables.

☞ The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	J type Part no.	AWG-No.	O type Part no.	AWG-No.
1 x 16 re	11,5	154,0	242,0	32850	6	32862	6
1 x 25 rm	12,5	240,0	362,0	32851	4	32863	4
1 x 35 rm	13,5	336,0	470,0	32852	2	32864	2
1 x 50 rm	15,5	480,0	620,0	32853	1	32865	1
1 x 70 rm	17,0	672,0	805,0	32854	2/0	32866	2/0
1 x 95 rm	19,0	912,0	1108,0	32855	3/0	32867	3/0
1 x 120 rm	20,5	1152,0	1360,0	32856	4/0	32868	4/0
1 x 150 rm	23,0	1440,0	1670,0	32857	300 kcmil	32869	300 kcmil
1 x 185 rm	25,5	1776,0	2050,0	32858	350 kcmil	32870	350 kcmil
1 x 240 rm	28,5	2304,0	2635,0	32859	500 kcmil	32871	500 kcmil
1 x 300 rm	30,0	2880,0	3200,0	32860	600 kcmil	32872	600 kcmil
1 x 400 rm	34,0	3840,0	4150,0	32861	750 kcmil	32873	750 kcmil
4 x 16 rm	21,5	614,0	1042,0	32874	6	32884	6
4 x 25 rm	26,0	960,0	1640,0	32875	4	32885	4
4 x 35 rm	27,5	1344,0	1760,0	32876	2	32886	2
4 x 50 sm	30,0	1920,0	2350,0	32877	1	32887	1
4 x 70 sm	34,0	2688,0	3100,0	32878	2/0	32888	2/0
4 x 95 sm	39,0	3648,0	4250,0	32879	3/0	32889	3/0
4 x 120 sm	42,5	4608,0	5300,0	32880	4/0	32890	4/0
4 x 150 sm	47,5	5760,0	6400,0	32881	300 kcmil	32891	300 kcmil
4 x 185 sm	52,0	7104,0	8500,0	32882	350 kcmil	32892	350 kcmil
4 x 240 sm	58,0	9216,0	11000,0	32883	500 kcmil	32893	500 kcmil

Dimensions and specifications may be changed without prior notice. (RQ02)