



Technical data

- Power and control cable according to DIN VDE 0276 part 603 S1 or HD 603 and IEC 60502
- **Temperature range**
Flexing -5 °C to +50 °C
Fixed installation -40 °C to +70 °C
- Permissible **operating temperature** at the conductor +90 °C
- Permissible **short circuit temperature** +250 °C (short circuit duration 5 sec.)
- **Nominal voltage**
U₀/U 0,6/1 kV
- **Test voltage** 4 kV
Max. permissible **tensile load** with cable grip = 50 N/mm²
- **Minimum bending radius**
Single-core approx. 15x cable ø
Multi-core approx. 12x cable ø

Cable structure

- Bare copper conductor according 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 or HD 383
- Core insulation from cross-linked polyethylene compound, DIX3 according to HD 603.1
- Cores stranded in concentric layers
- Core colours in accordance with DIN VDE 0293-308, 0276 Part 603 or HD 186 PVC outer sheath, DMV6/DMP2 according to HD 603.1
- Sheath colour - black

Properties

- Self-extinguishing and flame retardant in accordance with VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (conforms to DIN VDE 0472 part 804 Test method B)
- The materials used in manufacture are free of silicone, cadmium and substances that impair paint wetting
- **Highest permissible voltage**
 - Direct current systems 1,8 kV
 - Three-phase systems
Single-phase systems:
Both outer conductors insulated 1,4 kV
Single-phase systems:
One conductor earthed 0,7 kV
 - Three-phase systems 1,2 kV

Note

- re = round conductor, single-wire;
rm = round conductor, multi-wire
sm = sector-shaped conductor, multi-wire

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.

CE The product conforms to the EC Low-Voltage Directive 2006/95/EG.

No. cores x cross-sec. mm ²		Outer Ø approx. mm	Cop. weight kg / km	Weight approx. 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. (RQ01)