



Technical data

- Power and control cable according to DIN VDE 0276 Part 603 S1 or HD 603.1 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 for Alu-conductor = 30 N/mm²
- **Minimum bending radius**
Single-core approx. 15x cable ø
Multi-core approx. 12x cable ø

Cable structure

- Aluminium 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 polyethylen compound, DIX3 in accordance with HD 603.1
- Cores stranded in concentric layers
- Core colours according to DIN VDE 0293-308, 0276 part 603 or HD 186
- PVC outer sheath, DMV6/DMP2 according to HD 603.1
- Sheath colour - black
- PVC outer sheath, DMV6/DMP2 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 outer conductor earthed 0,7 kV
- Three-phase systems 1,2 kV

Note

- re = round conductor, single-wire;
se = 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	Alu 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	47,0	98,0	33113	6	33125	6
1 x 25	rm	12,5	73,0	150,0	33114	4	33126	4
1 x 35	rm	13,5	102,0	241,0	33115	2	33127	2
1 x 50	rm	15,5	145,0	357,0	33116	1	33128	1
1 x 70	rm	17,0	203,0	409,0	33117	2/0	33129	2/0
1 x 95	rm	19,0	276,0	570,0	33118	3/0	33130	3/0
1 x 120	rm	20,5	348,0	590,0	33119	4/0	33131	4/0
1 x 150	rm	23,0	435,0	804,0	33120	300 kcmil	33132	300 kcmil
1 x 150	rm	25,5	537,0	978,0	33121	350 kcmil	33133	350 kcmil
1 x 240	rm	28,5	696,0	1253,0	33122	500 kcmil	33134	500 kcmil
1 x 300	rm	30,0	870,0	1394,0	33123	600 kcmil	33135	600 kcmil
1 x 400	rm	34,0	1160,0	1890,0	33124	750 kcmil	33136	750 kcmil
4 x 16	rm	21,5	186,0	750,0	33137	6	33147	6
4 x 25	rm	26,0	290,0	950,0	33138	4	33148	4
4 x 35	rm	27,5	406,0	1120,0	33139	2	33149	2
4 x 50	sm	30,0	580,0	1251,0	33140	1	33150	1
4 x 70	sm	34,0	812,0	1548,0	33141	2/0	33151	2/0
4 x 95	sm	39,0	1102,0	2030,0	33142	3/0	33152	3/0
4 x 120	sm	42,5	1392,0	2400,0	33143	4/0	33153	4/0
4 x 150	sm	47,5	1740,0	3030,0	33144	300 kcmil	33154	300 kcmil
4 x 185	sm	52,0	2146,0	3650,0	33145	350 kcmil	33155	350 kcmil
4 x 240	sm	58,0	2784,0	4800,0	33146	500 kcmil	33156	500 kcmil

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