



Technical data

- Power and control cable according to DIN VDE 0276 Part 603 or HD 603 S1 and IEC 60502
- 7 cores and above in accordance with DIN 0276 Part 627 or HD 627 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** +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, single-wire according to DIN VDE 0295 cl. 1, BS 6360 cl. 1, IEC 60228 or HD 383
- Core insulation from cross-linked polyethylene compound, DIX3 according to HD 603.1
- Cores stranded in concentric layers
- Filling compound
- Concentric conductor, inner layer of round bare copper wires, outer layer of copper tape as counter helix
- PVC outer sheath, DMV6 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
- rm = round conductor, multi-wire
- sm = sector-shaped conductor, multi-wire

Application

Power distribution cables for industrial applications and switching systems, power stations, residential connections and street lighting, as well as control cables for transmitting control pulses and measurements. Wherever increased electrical and mechanical protection are required. For installation in underground, in water, outdoors, in concrete and cable ducts. Respecting the permissible operating temperature at the conductor of +90 °C permits a higher current carrying capacity than PVC insulated power distribution cables. The concentric conductor (C) can be used as a PE or PEN-conductor or as a screen.

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

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
33212	2 x 1,5 re / 1,5	13,0	53,0	205,0	16
33213	2 x 2,5 re / 2,5	13,5	80,0	270,0	14
33214	2 x 4 re / 4	15,5	123,0	360,0	12
33215	2 x 6 re / 6	17,0	182,0	435,0	10
33216	2 x 10 re / 10	19,5	312,0	590,0	8
33217	2 x 16 re / 16	20,5	489,0	820,0	6
33218	3 x 1,5 re / 1,5	13,5	66,0	225,0	16
33219	3 x 2,5 re / 2,5	14,5	104,0	290,0	14
33220	3 x 4 re / 16	16,5	161,0	400,0	12
33221	3 x 6 re / 6	17,5	240,0	510,0	10
33222	3 x 10 re / 10	20,0	408,0	850,0	8
33223	3 x 16 re / 16	23,0	643,0	1080,0	6
33224	3 x 25 rm / 16	25,1	902,0	1295,0	4
33225	3 x 25 rm / 25	25,0	1003,0	1375,0	4
33226	3 x 35 sm / 16	25,1	1190,0	1441,0	2
33227	3 x 35 sm / 35	25,4	1402,0	1619,0	2
33228	3 x 50 sm / 25	27,3	1723,0	1902,0	1
33229	3 x 50 sm / 50	27,7	2000,0	2107,0	1
33230	3 x 70 sm / 35	32,2	2410,0	2700,0	2/0
33231	3 x 70 sm / 70	32,7	2796,0	3005,0	2/0
33232	3 x 95 sm / 50	35,3	3296,0	3588,0	3/0
33233	3 x 95 sm / 95	35,8	3791,0	4017,0	3/0
33234	3 x 120 sm / 120	38,9	4786,0	4998,0	4/0
33235	3 x 120 sm / 70	38,9	4236,0	4534,0	4/0
33236	3 x 150 sm / 120	43,4	5970,0	5937,0	300 kcmil
33237	3 x 150 sm / 70	43,4	5100,0	5473,0	300 kcmil
33238	3 x 185 sm / 95	47,4	6383,0	6831,0	350 kcmil
33239	3 x 240 sm / 120	52,5	8242,0	8809,0	500 kcmil

Continuation ▶

N2XCY power cable, 0,6/1 kV, VDE approved, higher current carrying capacity



Part no.	No. cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
33240	4 x 1,5 re / 1,5	14,5	81,0	260,0	16
33241	4 x 2,5 re / 2,5	15,5	128,0	350,0	14
33242	4 x 4 re / 4	17,0	200,0	470,0	12
33243	4 x 6 re / 6	18,5	297,0	590,0	10
33244	4 x 10 re / 10	21,0	504,0	900,0	8
33245	4 x 16 re / 16	23,0	796,0	1250,0	6
33246	4 x 25 re / 16	27,2	1142,0	1559,0	4
33247	4 x 35 sm / 16	27,2	1526,0	1812,0	2
33248	4 x 50 sm / 25	30,6	2203,0	2413,0	1
33249	4 x 70 sm / 35	35,9	3082,0	3420,0	2/0
33250	4 x 95 sm / 50	39,5	4208,0	4561,0	3/0
33251	4 x 120 sm / 16	44,5	5388,0	5819,0	4/0
33252	4 x 150 sm / 70	48,6	6540,0	6972,0	300 kcmil
33253	5 x 1,5 re / 1,5	15,0	95,0	330,0	16
33254	5 x 2,5 re / 2,5	16,0	152,0	400,0	14
33255	5 x 4 re / 4	19,0	238,0	560,0	12
33256	5 x 6 re / 6	21,0	355,0	710,0	10
33257	5 x 10 re / 10	23,0	600,0	1000,0	8
33258	5 x 16 re / 16	24,3	931,0	1233,0	6
33259	7 x 1,5 re / 1,5	16,0	133,0	350,0	16
33260	7 x 2,5 re / 2,5	17,5	200,0	450,0	14
33261	7 x 4 re / 4	21,0	315,0	670,0	12
33262	7 x 6 re / 6	24,0	470,0	790,0	10
33263	10 x 1,5 re / 2,5	19,0	176,0	440,0	16
33264	10 x 2,5 re / 4	20,5	286,0	600,0	14
33265	12 x 1,5 re / 2,5	20,0	205,0	500,0	16
33266	12 x 2,5 re / 4	21,0	334,0	660,0	14
33267	14 x 1,5 re / 2,5	20,5	234,0	540,0	16
33268	14 x 2,5 re / 6	22,5	403,0	800,0	14
33269	19 x 1,5 re / 2,5	23,0	320,0	690,0	16
33270	19 x 2,5 re / 6	23,5	523,0	950,0	14
33271	30 x 1,5 re / 2,5	27,0	499,0	1230,0	16
33272	30 x 2,5 re / 10	30,0	840,0	1610,0	14
33273	40 x 1,5 re / 2,5	30,0	696,0	1590,0	16
33274	40 x 2,5 re / 10	35,0	1080,0	2100,0	14

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