

N2XCY

Power cable, 0,6/1 kV, with concentric copper conductor, higher current carrying capacity



N2XCY

◁VDE▷

0,6/1 kV

CE

Technical data

- Power and control cable acc. to DIN VDE 0276-603 / HD 603 S1 / IEC 60502 7 core and above acc. to DIN VDE 0276-627 / HD 627 S1 / 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**
U₀/U 0,6/1 kV
- **Test voltage**
4 kV
- **Minimum bending radius**
12x outer Ø

Cable structure

- Bare copper conductor, single wire or multi wire acc. to DIN VDE 0295 cl.1 or cl.2 / IEC 60228 cl.1 or cl.2
- Core insulation of cross-linked polyethylene (XLPE) compound type DIX3 acc. to HD 603 S1
- Core identification acc. to DIN VDE 0293-308
- Cores stranded in concentric layers
- Filling compound
- Concentric conductor, inner layer of round bare copper wires, outer layer of copper tape as counter helix
- Outer sheath of PVC compound type DMV6 acc. to HD 603 S1
- Sheath colour: black

Properties

- The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

Tests

- Flame retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2

Highest permissible voltage

- Direct current systems
 - Conductor/conductor 1,8 kV
 - Conductor/earth 0,9 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
- The conductor is metrically constructed (mm²). The AWG designation is approximate and purely informative.

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) may be used as PE, PEN conductor or as a shield according to national regulations.

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. 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 / 4	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

Continuation ►

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Part no.	No. cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
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
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. (RQ02)