

NA2XY

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



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 conductor **operating temperature** +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
- Max. permissible **tensile stress** with cable grip at conductor 30 N/mm²
- **Minimum bending radius**
single-core 15x cable Ø
multi-core 12x cable Ø

Cable structure

- Aluminium-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 during manufacturing are cadmium-free, contain no silicone and are 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 60332-1-2 (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
se = sectional conductor, single-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.

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

No. cores x cross-sec. mm ²		Outer Ø app. mm	Alu 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	47,0	98,0	33113	6	-	33125	6	-
1 x 25	re	12,5	73,0	150,0	33114	4	-	33126	4	-
1 x 35	re	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 185	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	re	21,5	186,0	750,0	33137	6	-	33147	6	-
4 x 25	re	26,0	290,0	950,0	33138	4	-	33148	4	-
4 x 35	re	27,5	406,0	1120,0	33139	2	-	33149	2	-
4 x 50	se	30,0	580,0	1251,0	33140	1	-	33150	1	-
4 x 70	se	34,0	812,0	1548,0	33141	2/0	-	33151	2/0	-
4 x 95	se	39,0	1102,0	2030,0	33142	3/0	-	33152	3/0	-
4 x 120	se	42,5	1392,0	2400,0	33143	4/0	-	33153	4/0	-
4 x 150	se	47,5	1740,0	3030,0	33144	300 kcmil	-	33154	300 kcmil	-
4 x 185	se	52,0	2146,0	3650,0	33145	350 kcmil	-	33155	350 kcmil	-
4 x 240	se	58,0	2784,0	4800,0	33146	500 kcmil	-	33156	500 kcmil	-

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