

# Power cable NAY2Y acc. to VDE 0276-603

<b>conductor material:</b>	aluminium
<b>insulation:</b>	PVC
<b>sheathing material:</b>	polyethylene DMP2
<b>colour of outer sheath:</b>	black
<b>meter mark:</b>	yes
<b>flame retardant:</b>	no
<b>UV-resistant:</b>	yes
<b>maximum temperature at conductor:</b>	70 °C
<b>max. operating temperature, fixed:</b>	70 °C
<b>temperature, moved/during installation:</b>	-20 - +70 °C
<b>bending radius, fixed installation:</b>	12 x DA

	NAY2Y-O	NAY2Y-J
<b>nominal voltage U<sub>0</sub>:</b>	600 V	600 V
<b>nominal voltage U:</b>	1 kV	1 kV
<b>maximum permitted operating voltage in 3-phase systems:</b>	1,2 kV	1,2 kV
<b>test voltage:</b>	4 kV	4 kV
<b>core identification:</b>	colours acc. VDE 0293 (HD308)	colours acc. VDE 0293 (HD308)

**Application:** For fixed installation in buildings, in free air, in ground and in water.



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Table: Technical characteristics NAY2Y-O

p/n	part name		R <sub>l</sub> [Ω/km]	I <sub>bl</sub> [A]	I <sub>be</sub> [A]	I <sub>k</sub> [kA]	D <sub>A</sub> [mm]	F <sub>ZV</sub> [N]	Al [kg/km]	G [kg/km]
090054	NAY2Y-O 01X120	SE	0,253	239	253	9,12	22,2	3600	348	685
090142	NAY2Y-O 04X150	SE	0,206	246	275	11,4	48,7	18000	1740	2950

The current rating are calculated for 30 °C ambient temperature and standard utility load flow.

Table: Technical characteristics NAY2Y-J

p/n	part name		R <sub>l</sub> [Ω/km]	I <sub>bl</sub> [A]	I <sub>be</sub> [A]	I <sub>k</sub> [kA]	D <sub>A</sub> [mm]	F <sub>ZV</sub> [N]	Al [kg/km]	G [kg/km]
090145	NAY2Y-J 01X120	RMv	0,253	239	253	9,12	22,2	3600	348	685
090056	NAY2Y-J 03X240 /120	SE	0,125	338	364	18,2	56,2	21600	2436	4050
090243	NAY2Y-J 04X35 RE SW	RE	0,865	100	123	2,66	28	4200	406	1020
090213	NAY2Y-J 04X50	SE	0,641	119	144	3,8	29	6000	580	1040
090244	NAY2Y-J 04X70 SE SW	SE	0,443	159	179	5,32	32	8400	812	1330
090245	NAY2Y-J 04X95 SE SW	SE	0,32	186	215	7,22	37	11400	1102	1785
090246	NAY2Y-J 04X120 SE SW	SE	0,253	216	245	9,12	40	14400	1392	2140

p/n	part name		$R_l$ [ $\Omega$ /km]	$I_{bl}$ [A]	$I_{be}$ [A]	$I_k$ [kA]	$D_A$ [mm]	$F_{zv}$ [N]	Al [kg/km]	G [kg/km]
090214	NAY2Y-J 04X150	SE	0,206	246	275	11,4	44	18000	1740	2635
090247	NAY2Y-J 04X185 SE SW	SE	0,164	285	313	14,1	48,5	22200	2146	3210
090248	NAY2Y-J 04X240 SE SW	SE	0,125	338	364	18,2	54,5	28800	2784	4085
090118	NAY2Y-J 04X150	SMv	0,206	246	275	11,4	44	18000	1740	2635

The current rating are calculated for 30 °C ambient temperature and standard utility load flow.

RI	conductor resistance
I <sub>bl</sub>	ampacity (in air) (30°C)
I <sub>be</sub>	ampacity (in ground) (20°C)
I <sub>k</sub>	short circuit current (1 s)
D <sub>A</sub>	outer diameter
F <sub>zv</sub>	tensile strength (during installation)
Al	aluminium weight (ger)
G	weight