

# Self-supporting aerial power cable (N)Y(Zg)2Y



**Application:** The cable is designed for self-supporting aerial outdoor installation to support distances of up to 50 m. Suitable for supplying thinly populated or hard-to-reach areas, provisional building sites or for bridging difficult terrain. The high-tensile cable sheath can be regarded as a pulling aid so that the cable can also be pulled into pipes over long distances (gas and water pipelines).

Glass yarns are embedded into the outer sheath as strength member.

## Construction and technical data:

<b>Conductor material:</b>	copper, bare
<b>Conductor construction:</b>	Class 1 = solid
<b>Insulation:</b>	PVC DIV 4
<b>Strength member:</b>	glass yarns embedded in the outer sheath
<b>Sheathing material:</b>	polyethylene 2YM1
<b>For outdoor use:</b>	yes
<b>Max. temperature at conductor, °C:</b>	70 °C
<b>Permitted outer cable temperature, fixed, °C:</b>	-20 - +70 °C
<b>Permitted outer cable temperature, moved, °C:</b>	5 - 70 °C
<b>Bending radius, fixed installation:</b>	10 x Ø



*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.*

## (N)Y(Zg)2Y

<b>Nominal voltage U<sub>0</sub>:</b>	0.6 kV
<b>Nominal voltage U:</b>	1 kV
<b>Test voltage:</b>	4 kV
<b>Core identification:</b>	colours acc. to VDE 0293 (HD308)

part no.	part name		RI [Ohm/km]	I <sub>bl</sub> [A]	I <sub>be</sub> [A]	I <sub>k</sub> [kA]	L <sub>b</sub> [mH/km]	Ø [mm]	F <sub>zv</sub> [N]	Cu	G [kg]
031735	3X1.5 BK	RE	12.1	19	27	0.17	0.343	12.1	7000	43	160
031925	4X1.5 BK	RE	12.1	19	27	0.17	0.366	13.8	7000	58	180

part no.	part name		RI [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Ø [mm]	Fzv [N]	Cu	G [kg]
032859	5X1.5 BK	RE	12.1	19	27	0.17	0.375	14	7500	72	230
031898	3X2.5 BK	RE	7.41	25	36	0.29	0.317	13	7500	72	195
031952	4X2.5 BK	RE	7.41	25	36	0.29	0.34	14	7000	96	240
031866	5X2.5 BK	RE	7.41	25	36	0.29	0.349	15.8	7500	120	240
031956	5X4 BK	RE	4.61	34	47	0.46	0.348	17.9	9000	192	410
031938	5X6 BK	RE	3.08	43	59	0.69	0.33	19.7	9000	288	520
032111	4X10 BK	RE	1.83	59	79	1.15	0.301	20.2	13500	384	630
032113	5X10 BK	RE	1.83	59	79	1.15	0.31	22.8	13500	480	780
034994	5X16 BK	RE	1.15	79	103	1.84		26.4	13500	768	1280

RI	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000