NYCY Power Cable

Eland Product Group **A9N**

Application

For use indoors, in cable ducts, outdoors and in earth for power plants, industrial plants, as well as in local power networks, if increased mechanical and electrical protection is required.

Standards

VDE0276 part 603, CENELEC HD603 S1, IEC 60502. 7 cores and above to VDE0276 part 627, CENELEC HD627 S1, IEC 60502

Technical Data

Conductor
Class 1 solid plain copper to BS EN 60228:2005 (previously BS6360), VDE0295, IEC 60228, CENELEC HD383

Insulation
PVC (Polyvinyl Chloride) to CENELEC HD603.1

Bedding
PVC (Polyvinyl Chloride)

Concentric Conductor
Copper wires and helical copper tape

Sheath
PVC (Polyvinyl Chloride) to CENELEC HD603.1

Sheath Colour
Black

Voltage Rating
600/1000V

Temperature Rating
Fixed: -40°C to +70°C
Flexing: -5°C to +50°C

Minimum Bending Radius
Single Core: 15 x overall diameter
Multi-Core: 12 x overall diameter

Core Identification
Up to and including 5 cores:
colour coded or number coded
7 cores and above: number coded

Dimensions

Resistance Values (ohms per kilometre)

Eland Part Numbers	No. of Cores x Nominal Cross Sectional Area # x mm²	Conductor Type	Nominal Overall Diameter mm	Nominal Weight kg/Km
NYCY Cable - 1 Core				
A9NYCY0110	1 x 10.0	re / 10.0	11.0	280.0
A9NYCY0116	1 x 16.0	re / 16.0	12.0	440.0
NYCY Cable - 2 Cores				
A9NYCY02015	2 x 1.5	re / 1.5	13.0	205.0
A9NYCY02025	2 x 2.5	re / 2.5	13.5	270.0
A9NYCY02040	2 x 4.0	re / 4.0	15.5	360.0
A9NYCY02060	2 x 6.0	re / 6.0	17.0	435.0
A9NYCY0210	2 x 10.0	re / 10.0	19.5	590.0
A9NYCY0216	2 x 16.0	re / 16.0	20.5	820.0
NYCY Cable - 3 Cores				
A9NYCY03015	3 x 1.5	re / 1.5	13.5	225.0
A9NYCY03025	3 x 2.5	re / 2.5	14.5	290.0
A9NYCY03040	3 x 4.0	re / 4.0	16.5	400.0
A9NYCY03060	3 x 6.0	re / 6.0	17.5	510.0
A9NYCY0310	3 x 10.0	re / 10.0	20.0	850.0
A9NYCY0316	3 x 16.0	re / 16.0	23.0	1080.0

ISSUE 02.0608

Eland Part Numbers	No. of Cores x Nominal Cross Sectional Area # x mm²	Conductor Type	Nominal Overall Diameter mm	Nominal Weight kg/Km
NYCY Cable - 4 Cores				
A9NYCY04015	4 x 1.5	re / 1.5	14.5	260.0
A9NYCY04025	4 x 2.5	re / 2.5	15.5	350.0
A9NYCY04040	4 x 4.0	re / 4.0	17.0	470.0
A9NYCY04060	4 x 6.0	re / 6.0	18.5	590.0
A9NYCY0410	4 x 10.0	re / 10.0	21.0	900.0
A9NYCY0416	4 x 16.0	re / 16.0	23.0	1250.0
NYCY Cable - 5 Cores				
A9NYCY05015	5 x 1.5	re / 1.5	15.0	330.0
A9NYCY05025	5 x 2.5	re / 2.5	16.0	400.0
A9NYCY05040	5 x 4.0	re / 4.0	19.0	560.0
A9NYCY05060	5 x 6.0	re / 6.0	21.0	710.0
A9NYCY0510	5 x 10.0	re / 10.0	23.0	1000.0
NYCY Cable - 7 Cores				
A9NYCY07015	7 x 1.5	re / 1.5	15.0	320.0
A9NYCY07015/25	7 x 1.5	re / 2.5	16.0	350.0
A9NYCY07025	7 x 2.5	re / 2.5	17.5	450.0
A9NYCY07040	7 x 4.0	re / 4.0	21.0	670.0
A9NYCY07060	7 x 6.0	re / 6.0	24.0	790.0
NYCY Cable - 8 Cores				
A9NYCY08015	8 x 1.5	re / 1.5	17.0	380.0
A9NYCY08015/25	8 x 1.5	re / 2.5	17.0	400.0
A9NYCY08025	8 x 2.5	re / 2.5	18.0	510.0
NYCY Cable - 10 Cores				
A9NYCY10015/25	10 x 1.5	re / 2.5	19.0	440.0
A9NYCY10025/40	10 x 2.5	re / 4.0	20.5	600.0
NYCY Cable - 12 Cores				
A9NYCY12015/25	12 x 1.5	re / 2.5	20.0	500.0
A9NYCY12025/40	12 x 2.5	re / 4.0	21.0	660.0
NYCY Cable - 14 Cores				
A9NYCY14015/25	14 x 1.5	re / 2.5	20.5	540.0
A9NYCY14025/40	14 x 2.5	re / 4.0	22.0	760.0
A9NYCY14025/60	14 x 2.5	re / 6.0	22.5	800.0
NYCY Cable - 16 Cores				
A9NYCY16015/40	16 x 1.5	re / 4.0	22.0	600.0
A9NYCY16025/60	16 x 2.5	re / 6.0	23.0	910.0
NYCY Cable - 19 Cores				
A9NYCY19015/40	19 x 1.5	re / 4.0	23.0	690.0
A9NYCY19025/60	19 x 2.5	re / 6.0	23.5	950.0
NYCY Cable - 21 Cores				
A9NYCY21015/60	21 x 1.5	re / 6.0	24.0	810.0
A9NYCY21025/10	21 x 2.5	re / 10.0	26.0	1100.0
NYCY Cable - 24 Cores				
A9NYCY24015/60	24 x 1.5	re / 6.0	26.0	860.0
A9NYCY24025/10	24 x 2.5	re / 10.0	28.0	1300.0
NYCY Cable - 30 Cores				
A9NYCY30015/60	30 x 1.5	re / 6.0	27.0	1230.0
A9NYCY30025/10	30 x 2.5	re / 10.0	30.0	1610.0
NYCY Cable - 40 Cores				
A9NYCY40015/10	40 x 1.5	re / 10.0	30.0	1590.0
A9NYCY40025/10	40 x 2.5	re / 10.0	35.0	2100.0
NYCY Cable - 52 Cores				
A9NYCY52015/10	52 x 1.5	re / 10.0	32.0	1820.0
A9NYCY52025/10	52 x 2.5	re / 10.0	38.0	2500.0
NYCY Cable - 61 Cores				
A9NYCY61015/10	61 x 1.5	re / 10.0	33.0	2000.0
A9NYCY61025/10	61 x 2.5	re / 10.0	40.0	2850.0

re = round conductor

Conductors

Class 1 solid conductors for Single Core and Multi-Core cables

1	2
Nominal Cross Sectional Area mm^2	**Maximum Resistance of Conductor at 20°C**
	Circular, Annealed Copper Conductors
	Plain ohms/Km
1.5	12.1000
2.5	7.4100
4.0	4.6100
6.0	3.0800
10.0	1.8300
16.0	1.1500

Table in accordance with BS EN 60228:2005 (previously BS6360)

The information contained within this datasheet is for guidance only. When selecting accessories such as cleats, glands, etc please note that actual cable dimensions may vary due to manufacturing tolerances.