NYCWY PVC 0.6/1kV Power Cable

Eland Product Group: A9N

APPLICATION

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

CHARACTERISTICS

Voltage Rating Uo/U
0.6/1kV

Temperature Rating
-5°C to +70°C

Minimum Bending Radius
15 x overall diameter

CONSTRUCTION

Conductor
RE: Class 1 solid copper conductor
RM: Class 2 stranded, round copper conductor
SM: Class 2 stranded, sectorial copper conductor

Insulation
PVC (Polyvinyl Chloride)

Bedding
PVC (Polyvinyl Chloride)

Concentric Conductor
Waveconal outer conductor – copper wire and counter spiral copper tape

Sheath
PVC (Polyvinyl Chloride)

Core Identification
2 core: ● Brown ● Blue
3 core: ● Brown ● Black ● Grey
4 core: ● Brown ● Black ● Grey ● Blue

Sheath Colour
● Black

STANDARDS

VDE 0276 Part 603, IEC 60502-1

Flame retardant according to IEC/EN 60332-1

ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.

UKAS ISO/IEC 17025 Accredited Testing Laboratory 8578

bsi. ISO 9001 Quality Management FS 672069 | ISO 14001 Environmental Management EMS 672067 | ISO 45001 Occupational Health and Safety Management OHS 672066

REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.

CPR COMPLIANT EN 50575

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.

bsi. RoHS Trusted KITEMARK™ KM 634267 | RoHS | CE

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	CONDUCTOR TYPE	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A9NYCWY0201010	2	10/10	RE	19.4	610
A9NYCWY0201616	2	16/16	RE	20.4	840
A9NYCWY0202525	2	25/25	RM	24.4	1299
A9NYCWY0301010	3	10/20	RE	19.4	750
A9NYCWY0301616	3	16/16	RE	21.4	1050
A9NYCWY0302516	3	25/16	RM	25.5	1600
A9NYCWY0302525	3	25/25	RM	25.5	1600
A9NYCWY0303516	3	35/16	SM	25.7	1850
A9NYCWY0303535	3	35/35	SM	27.6	1700
A9NYCWY0305025	3	50/25	SM	28.7	2400
A9NYCWY0305050	3	50/50	SM	28.7	2300
A9NYCWY0307035	3	70/35	SM	33.8	3300
A9NYCWY0307070	3	70/70	SM	32.8	2900
A9NYCWY0309550	3	95/50	SM	37.8	4500
A9NYCWY0309595	3	95/95	SM	37.8	400
A9NYCWY0312070	3	120/70	SM	40.8	5000
A9NYCWY03120120	3	120/120	SM	41.8	5500
A9NYCWY0315070	3	150/70	SM	45	6000
A9NYCWY03150150	3	150/150	SM	46	6750
A9NYCWY0318595	3	185/95	SM	50	7500
A9NYCWY03185185	3	185/185	SM	51	8500
A9NYCWY03240120	3	240/120	SM	57	10000
A9NYCWY0401010	4	10/10	RE	20.4	870
A9NYCWY0401616	4	16/16	RE	23.4	1250
A9NYCWY0402516	4	25/16	RM	27.6	1800
A9NYCWY0403516	4	35/16	SM	28.6	2050
A9NYCWY0405025	4	50/25	SM	32.8	2700
A9NYCWY0407035	4	70/35	SM	36.8	3750
A9NYCWY0409550	4	95/50	SM	43.9	5000
A9NYCWY0412070	4	120/70	SM	47	6300
A9NYCWY0415070	4	150/70	SM	51	7600
A9NYCWY0418595	4	185/95	SM	56	9300
A9NYCWY04240120	4	240/120	SM	63	11600

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CONDUCTORS

Class 1 Solid Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
	Circular, Annealed Copper Conductors
	Plain Wires
10	1.83
16	1.15

The above table is in accordance with EN 60228

Class 2 Stranded Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm²	MINIMUM NO. OF WIRES IN CONDUCTOR			MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
	Circular	Circular Compacted	Shaped	Annealed Copper Conductor
	Cu			Plain Wires
25	7	6	6	0.727
35	7	6	6	0.524
50	19	6	6	0.387
70	19	12	12	0.268
95	19	15	15	0.193
120	37	18	18	0.153
150	37	18	18	0.124
185	37	30	30	0.0991
240	37	34	34	0.0754

The above table is in accordance with EN 60228

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity

NOMINAL CROSS SECTIONAL AREA mm²	CURRENT CARRYING CAPACITY Amps	
	In Ground at 20°C	In Air at 30°C
10	79	60
16	102	80
25	133	106
35	160	129
50	190	157
70	234	199
95	280	249
120	319	289
150	357	329
185	402	377
240	463	443