11kV XLPE MDPE Cable

Eland Product Group **A9M**

Application

Power cables for power networks, underground and in cable ducting.

Standards

BS6622

Technical Data

Network Rail Acceptance Certificate Number
PA05/04787

Conductor
Class 2 stranded plain copper conductor to BS EN 60228:2005 (previously BS6360)

Conductor Screen
Semi-conducting material

Insulation
XLPE (Cross-Linked Polyethylene) Type GP8 to BS7655

Insulation Screen
Semi-conducting material

Metallic Screen
Individual and overall copper tape screen to BS6622

Filler
PETP (Polyethylene Terephthalate) fibres

Separator
Binding tape

Bedding
PVC (Polyvinyl Chloride) Type TM1 to BS7655

Separator
Water Blocking Tape

Armouring
SWA (Steel Wire Armoured)

Sheath
MDPE (Medium Density Polyethylene) type TS2

Sheath Colour
Red or Black

Voltage Rating
6350/11000V

Temperature Rating
0 to +90°C

Minimum Bending Radius
Three Cores: 12 x overall diameter

(3 cores 10 x overall diameter where bends are positioned adjacent to joint or terminations provided that the bending is carefully controlled by the use of a former)

Dimensions

Eland Part Number	PAD's Number	No. of Cores x Nominal Cross Sectional Area # x mm²	Nominal Diameter			Nominal Weight kg/Km
			Under Armour	Over Armour	Overall	
			mm			
A9M11KV03185-BK	006/120036	3 x 185	62.7	67.7	74.1	11000
A9M11KV03185-RD	006/120037	3 x 185	62.7	67.7	74.1	11000

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Conductors

Class 2 stranded conductors for Single Core and Multi-Core cables

1	2	3	4	5	6	7	8
Nominal Cross Sectional Area mm²	**Minimum Number of Wires in the Conductor**						**Maximum Resistance of Conductor at 20°C**
	Circular		**Circular Compacted**		**Shaped**		**Annealed Copper Conductor**
	Cu	**Al**	**Cu**	**Al**	**Cu**	**Al**	**Plain Wires** ohms/Km
185.00	37	37	30	30	30	30	0.0991

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

Electrical Characteristics

Copper Conductor Dimensions and Current Carrying Capacity (amperes)

No. of Cores x Nominal Cross Sectional Area	**Continuous Current Rating in Ground** Amps		**Continuous Current Rating in Ducts** Amps		**Continuous Current Rating in Air** Amps	
# x mm²	Trefoil	Flat	Trefoil	Flat	Trefoil	Flat
3 x 185	430	430	370	370	490	490

Correction Factors

Air Temperature	25°C	30°C	35°C	40°C	45°C	50°C	55°C
Correction Factor	1.00	0.96	0.92	0.88	0.83	0.78	0.73
Ground Temperature	10°C	15°C	20°C	25°C	30°C	35°C	40°C
Correction Factor	1.03	1.00	0.97	0.93	0.89	0.86	0.82
Ground Thermal Resistivity	0.9	1.0	1.2	1.5	2.0	2.5	3.0
Correction Factor	1.06	1.04	1.00	0.92	0.82	0.74	0.68
Depth of Laying m	0.80	1.00	1.25	1.50	1.75	2.00	2.50
Correction Factor	1.00	0.97	0.95	0.94	0.93	0.91	0.90

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.