

BS 6622 XLPE MDPE 6.35/11 (12)kV Cable



Eland Product Group: A9M

APPLICATION

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

CHARACTERISTICS

Voltage Rating U_0/U (Um)
6.35/11 (12)kV

Temperature Rating
Fixed: 0°C to +90°C

Temperature Index
0°C to +90°C

Minimum Bending Radius

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

CONSTRUCTION

Conductor
Class 2 stranded copper conductor

Conductor Screen
Semi-conductive XLPE (Cross-Linked Polyethylene)

Insulation
XLPE (Cross-Linked Polyethylene)

Insulation Screen
Semi-conductive XLPE (Cross-Linked Polyethylene)

Separator
Water blocking tape

Insulation Screen
Semi-conductive XLPE (Cross-Linked Polyethylene)

Metallic Screen
Individual copper wire screen

Filler
PET (Polyethylene Terephthalate) fibres

Separator
Binding tape

Bedding
PVC (Polyvinyl Chloride)

Armour
SWA (Steel Wire Armoured)

Sheath
MDPE (Medium Density Polyethylene)

Sheath Colour
● Red ● Black

STANDARDS

BS 6622, BS EN/IEC 60228



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.



REGULATORY COMPLIANCE

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™.



DIMENSIONS

ELAND PART NO.	SHEATH COLOUR	PADS NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER mm			NOMINAL WEIGHT kg/km
					Under Armour	Over Armour	Overall	
A9M11KV03185-BK	Black	006/120036	3	185	64.4	69.4	76	12600
A9M11KV03185-RD	Red	006/120037	3	185	64.4	69.4	76	12600

CONDUCTORS

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

NOMINAL CROSS SECTIONAL AREA mm ²	MINIMUM NO. OF WIRES IN CONDUCTOR						MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
	Circular		Circular Compacted		Shaped		
	Cu	Al	Cu	Al	Cu	Al	
185	37	37	30	30	30	30	0.0991

ELECTRICAL CHARACTERISTICS

Copper Conductor Dimensions and Current Carrying Capacity

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	CONTINUOUS CURRENT RATING Amps					
		In Ground		In Ducts		In Air	
		Trefoil	Flat	Trefoil	Flat	Trefoil	Flat
3	185	430	430	370	370	490	490

DE-RATING FACTORS

AIR TEMPERATURE °C	25	30	35	40	45	50	55
DE-RATING FACTOR	1.00	0.96	0.92	0.88	0.83	0.78	0.73
GROUND TEMPERATURE °C	10	15	20	25	30	35	40
DE-RATING FACTOR	1.03	1.00	0.97	0.93	0.89	0.86	0.82
GROUND THERMAL RESISTIVITY km/W	0.9	1.0	1.2	1.5	2.0	2.5	3.0
DE-RATING 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
DE-RATING 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 and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.