



Eland Product Group: B4I

## APPLICATION

Electrical power supply in public networks and industrial plants. Outdoor installation, on racks, direct buried or in conduits. This construction is particularly suitable for underground installation due to the longitudinal watertightness.

## CHARACTERISTICS

### Voltage Rating U<sub>o</sub>/U (Um)

8.7/15(17.5)kV  
12/20 (24)kV  
18/30 (36)kV

### Temperature Range

Maximum conductor operating temperature: 90°C  
Maximum short circuit temperature: 250°C

## CONSTRUCTION

### Conductor

Class 2 stranded Copper

### Conductor Screen

Semi-conducting XLPE (Cross-Linked Polyethylene)

### Insulation

XLPE (Cross-Linked Polyethylene)

### Insulation Screen

Semi-conducting XLPE (Cross-Linked Polyethylene)

### Longitudinal waterblock

Semi-conducting swellable tape

### Metallic Screen

Copper wires screen + counter helix copper tape

### Longitudinal waterblock

Swellable tape

### Outer Sheath

PE (Polyethylene)

### Sheath Colour

● Red

## STANDARDS

National NBN HD 620 / 10B-A

## ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab<sup>®</sup>, 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.



FS 672069

EMS 672067

OHS 672066

## REGULATORY COMPLIANCE

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





## DIMENSIONS - 8.7/15 (17.5)kV

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL INSULATION THICKNESS mm	NOMINAL SCREEN SECTIONAL AREA mm <sup>2</sup>	NOMINAL SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B4I15KV01025	1	25	4.5	16	2.6	30.5	960
B4I15KV01050	1	50	4.5	16	2.6	33.0	1220
B4I15KV01150	1	150	4.5	25	2.9	40.0	2460
B4I15KV01240	1	240	4.5	25	3.1	44.0	3470
B4I15KV01630	1	630	4.5	35	3.5	56.0	7600
B4I15KV011000	1	1000	4.5	35	3.7	68.0	11620

## ELECTRICAL CHARACTERISTICS 8.7/15 (17.5)kV

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITY - INSTALLED IN GROUND		CURRENT CARRYING CAPACITY - IN AIR	
	TREFOIL A	FLAT A	TREFOIL A	FLAT A
25	154	167	165	190
50	224	242	237	275
150	418	436	470	539
240	546	558	633	717
630	871	823	1086	1177
1000	1049	974	1357	1442

## DIMENSIONS - 12/20 (24)kV

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL INSULATION THICKNESS mm	NOMINAL SCREEN SECTIONAL AREA mm <sup>2</sup>	NOMINAL SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B4I20KV01050	1	50	5.5	16	2.6	35.0	1310
B4I20KV01095	1	95	5.5	25	2.7	39.0	1980
B4I20KV01150	1	150	5.5	25	3.0	42.0	2600
B4I20KV01240	1	240	5.5	25	3.1	46.0	3600
B4I20KV01400	1	400	5.5	35	3.3	52.0	5250

## ELECTRICAL CHARACTERISTICS 12/20 (24)kV

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITY - INSTALLED IN GROUND		CURRENT CARRYING CAPACITY - IN AIR	
	TREFOIL A	FLAT A	TREFOIL A	FLAT A
50	217	234	239	276
95	318	335	363	416
150	404	418	473	539
240	526	534	635	717
400	667	647	836	922



## DIMENSIONS - 18/30 (36)kV

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL INSULATION THICKNESS mm	NOMINAL SCREEN SECTIONAL AREA mm <sup>2</sup>	NOMINAL SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B4I30KV01050	1	50	8.0	16	2.8	41.0	1600
B4I30KV01095	1	95	8.0	25	2.9	44.0	2310
B4I30KV01150	1	150	8.0	25	3.2	47.0	2960
B4I30KV01240	1	240	8.0	25	3.3	51.0	4000
B4I30KV01400	1	400	8.0	35	3.5	57.0	5700
B4I30KV01630	1	630	8.0	35	3.7	63.0	8270
B4I30KV011000	1	1000	8.0	35	4.0	76.0	12450

## ELECTRICAL CHARACTERISTICS 18/30 (36)kV

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITY - INSTALLED IN GROUND		CURRENT CARRYING CAPACITY - IN AIR	
	TREFOIL A	FLAT A	TREFOIL A	FLAT A
50	217	232	243	275
95	318	334	367	414
150	404	418	477	537
240	526	535	639	714
400	668	650	841	918
630	843	794	1097	1180
1000	1017	938	1373	1450