

ELAND[®] CABLES

EAXCVB Cable



Eland Product Group: B4Y

APPLICATION

Medium voltage cables for distribution networks; also for connection to generation units and plant and process connection. To be laid directly in ground, outdoors, indoors and in cable ducts.

CHARACTERISTICS

Voltage Rating Uo/U (Um) 8.7/15 (17.5)kV 12/20 (24)kV 18/30 (36)kV

Temperature Rating

Maximum conductor operating temperature: 90°C Initial temperature at S.C.C for metallic screen: 80°C Maximum conductor temperature during S.C: 250°C

Minimum Bending Radius

10 x overall diameter

CONSTRUCTION

Conductor Class 2 stranded aluminium conductor

Conductor Screen Semi-conductive material

Insulation XLPE (Cross-Linked Polyethylene)

Insulation Screen Semi-conductive material

Screen Copper wires

Sheath PVC (Polyvinyl Chloride)

Sheath Colour

Red

STANDARDS

EN 60228, IEC 60502-2

Generally to HD620 10B

Flame Retardant according to IEC/EN 60332-1-2

THE CABLE LAB® AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability



REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].





DIMENSIONS 8.7/15 (17.5)KV

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL SCREEN CROSS SECTIONAL AREA mm ²	MINIMUM SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B4Y15KV01050	1	50	16	1.24	23.8	691
B4Y15KV01095	1	95	16	1.24	27.1	901.8
B4Y15KV01150	1	150	25	1.4	31.3	1257.7
B4Y15KV01240	1	240	25	1.88	34.6	1578.4
B4Y15KV01400	1	400	35	1.56	40.1	2258.6
B4Y15KV01630	1	630	35	1.72	48.4	3263.5

ELECTRICAL CHARACTERISTICS 8.7/15 (17.5)KV

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM CONDUCTOR DC RESISTANCE AT 20 °C Ω/Km	MAXIMUM CONDUCTOR AC RESISTANCE AT OPERATING TEMP. AND 50HZ Ω/Km	CAPACITANCE µF/Km	CHARGING CURRENT A/Km	DIELECTRIC LOSSES W/Km	REACTANCE AT 50 HZ ohm/km	CONDUCTOR S.C.C FOR 1 SEC KA	COPPER SCREEN S.C.C FOR 1 SEC KA		T RATING
									Laid in ground	Laid in free air
50	0.641	0.822	0.214	0.586	20.37	0.128	4.69	1.75	180	184
95	0.32	0.411	0.267	0.73	25.39	0.116	8.90	1.75	265	280
150	0.206	0.265	0.327	0.895	31.16	0.107	14.06	2.73	338	369
240	0.125	0.161	0.383	1.047	36.42	0.101	22.49	2.73	431	505
400	0.0778	0.101	0.464	1.27	44.20	0.094	37.48	3.82	548	675
630	0.0469	0.062	0.596	1.629	56.70	0.090	59.03	3.82	731	912

Laying conditions at trefoil formation are as below:

-Soil thermal resistivity 100 °C.Cm/Watt

-Burial depth 0.8 m

- -Ground temperature 20 °C
- -Air temperature 30 °C
- -Frequency 50 Hz

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.



DIMENSIONS 12/20 (24)KV

ELAND PART NO.	NO. OF CORES		SECTIONAL AREA	NOMINAL OVERALL DIAMETER	NOMINAL WEIGHT kg/km
		Conductor	Copper Wire Screen	mm	
B4Y20KV01050	1	50	16	33	950
B4Y20KV01095	1	95	16	36	1150
B4Y20KV01150	1	150	25	39	1500
B4Y20KV01240	1	240	25	44	1850
B4Y20KV01400	1	400	35	49	2550

ELECTRICAL CHARACTERISTICS 12/20 (24)KV

	SECTIONAL AREA m ²	CURRENT CARRYING CAPACITY Amps		
Conductor	Copper Wire Screen	In Ground	In Air	
50	16	172	185	
95	16	251	280	
150	25	319	366	
240	25	417	496	
400	35	535	660	

DIMENSIONS 18/30 (36)KV

ELAND PART NO.	NO. OF CORES		SECTIONAL AREA	NOMINAL OVERALL DIAMETER	NOMINAL WEIGHT kg/km
		Conductor	Copper Wire Screen	mm	
B4Y30KV01050	1	50	16	41	1190
B4Y30KV01095	1	95	16	43	1450
B4Y30KV01150	1	150	25	47	1800
B4Y30KV01240	1	240	25	51	2230
B4Y30KV01400	1	400	35	56	2920

ELECTRICAL CHARACTERISTICS 18/30 (36)KV

NOMINAL CROSS	CURRENT CARRYING CAPACITY Amps			
		In Trefoil		
Conductor	Copper Wire Screen	In Ground	In Air	
50	16	175	187	
95	16	256	281	
150	25	324	365	
240	25	426	494	
400	35	545	654	

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