YMz1Krvasdlwd-AL 8.7/15kV Cable

Eland Product Group: B1E

APPLICATION

LSZH Medium Voltage cable with aluminium conductors offering a lightweight alternative to copper conductor alternatives. Suitable for use in conduit and for fixed, protected installation. For installations where fire, smoke emission and toxic fume create a potential risk to life and equipment.

CHARACTERISTICS

Voltage Rating Uo/U
8.7/15kV

Temperature Rating
Fixed: 0°C to +90°C
Maximum Conductor Short-Circuit Temp up to 5 sec: 250°C

Minimum Bending Radius
Single Core: 15 x overall diameter
Multi Core: 12 x overall diameter

CONSTRUCTION

Conductor
Class 2 Stranded Aluminium

Inner Semi-Conductive Layer
Semi-Conductive Material

Insulation
XLPE (Cross-Linked Polyethylene)

Outer Semi-Conductive Layer
Semi-Conductive Material

Screen
Copper wires and tape

Tape
Longitudinal and Radial Water Blocking

Outer Sheath
LSZH (Low Smoke Zero Halogen) UV Resistant

Core Identification
3 Core: ● Brown ● Black ● Grey

Sheath Colour
● Red

STANDARDS

Generally to HD 620-10J / NEN 3620
Flame Retardant to IEC/EN 60332-1-2, IEC/EN 60332-3-24 Cat.C

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

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL CROSS SECTIONAL AREA OF SCREEN mm²	NOMINAL DIAMETER OVER CONDUCTOR mm	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF SEMI-CONDUCTIVE LAYER mm		NOMINAL THICKNESS OF SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
						Inner	Outer			
B1E15KV01050RD	1	50	25	8.10	4.50	0.50	0.40(fully bonded)	2.50	28	1000
B1E15KV01070RD	1	70	25	9.70	4.50	0.50	0.40(fully bonded)	2.50	29	1100
B1E15KV01095RD	1	95	25	11.40	4.50	0.50	0.40(fully bonded)	2.50	31	1200
B1E15KV01120RD	1	120	25	12.60	4.50	0.50	0.40(fully bonded)	2.50	32	1300
B1E15KV01150RD	1	150	25	14.10	4.50	0.50	0.40(fully bonded)	2.50	34	1400
B1E15KV01185RD	1	185	25	15.80	4.50	0.50	0.40(fully bonded)	2.50	35	1600
B1E15KV01240RD	1	240	25	18.10	4.50	0.50	0.40(fully bonded)	2.50	38	1800
B1E15KV01300RD	1	300	25	20.20	4.50	0.50	0.40(fully bonded)	2.50	40	2000
B1E15KV01400RD	1	400	50	23.00	4.50	0.50	0.40(fully bonded)	2.50	43	2600
B1E15KV01500RD	1	500	50	26.00	4.50	0.50	0.40(fully bonded)	2.50	47	3000
B1E15KV01630RD	1	630	50	30.10	4.50	0.50	0.40(fully bonded)	2.50	51	3500
B1E15KV03050RD	3	50	70	8.10	4.50	0.50	0.40(fully bonded)	3.20	54	3000
B1E15KV03070RD	3	70	70	9.70	4.50	0.50	0.40(fully bonded)	3.20	58	3250
B1E15KV03095RD	3	95	70	11.40	4.50	0.50	0.40(fully bonded)	3.20	62	3750
B1E15KV03120RD	3	120	70	12.60	4.50	0.50	0.40(fully bonded)	3.20	65	4000
B1E15KV03150RD	3	150	70	14.10	4.50	0.50	0.40(fully bonded)	3.20	68	4400
B1E15KV03185RD	3	185	70	15.80	4.50	0.50	0.40(fully bonded)	3.20	72	4900
B1E15KV03240RD	3	240	70	18.10	4.50	0.50	0.40(fully bonded)	3.20	77	5750
B1E15KV03300RD	3	300	70	20.20	4.50	0.50	0.40(fully bonded)	3.20	81	6400

ELECTRICAL CHARACTERISTICS

Single Core

NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL SHORT-CIRCUIT OF CONDUCTOR CURRENT FOR 1 SECOND kA	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/km	CONDUCTER AC RESISTANCE BY MAXIMUM TEMPERATURE Ω/km	CURRENT CARRYING CAPACITY A		CONDUCTOR LOSSES IN THE GROUND kW/km
				In Ground 20°C	In Air 30°C	
50	4.70	0.0641	0.825	194	215	31.0
70	6.58	0.0443	0.570	236	269	31.7
95	8.93	0.320	0.412	281	327	32.5
120	11.28	0.253	0.328	318	377	33.2
150	14.10	0.206	0.268	350	424	32.8
185	17.39	0.164	0.213	393	485	32.9
240	22.56	0.125	0.163	453	573	33.4
300	28.20	0.100	0.132	507	652	33.9
400	37.60	0.0778	0.103	559	741	32.2
500	47.00	0.0605	0.0810	622	383	31.3
630	59.22	0.0469	0.0640	679	851	-

UK T 020 7241 8787 | F 020 7241 8700 | sales@elandcables.com | www.elandcables.com
International T +44 20 7241 8740 | F +44 20 7241 8700 | international@elandcables.com

ELECTRICAL CHARACTERISTICS

Multi Core

NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL SHORT-CIRCUIT OF CONDUCTOR CURRENT FOR 1 SECOND kA	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/km	CONDUCTER AC RESISTANCE BY MAXIMUM TEMPERATURE Ω/km	CURRENT CARRYING CAPACITY A		CONDUCTOR LOSSES IN THE GROUND kW/km
				In Ground 20°C	In Air 30°C	
50	4.70	0.641	0.825	162	160	65.0
70	6.58	0.443	0.570	199	199	67.7
95	8.93	0.320	0.412	238	242	70.0
120	11.28	0.253	0.328	271	280	72.3
150	14.10	0.206	0.268	304	318	74.3
185	17.39	0.164	0.213	345	365	76.1
240	22.56	0.125	0.163	401	431	48.6
300	28.20	0.100	0.132	453	492	-