

YMz1Krvasdldw-AL 18/30kV 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 U₀/U
18/30kV

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

Multi Cores: ● Brown ● Black ● Grey

Sheath Colour

● Red

STANDARDS

Generally to HD 620-10J / NEN 3620

Fire Resistant to IEC/EN 60332-1-2, IEC/EN 60332-3-24 Cat.C

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.



8578



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® as meeting the requirements of the BSI RoHS Trusted Kitemark™.



KM 634287





DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL CROSS SECTIONAL AREA OF SCREEN mm ²	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			
B1E30KV01050RD	1	50	25	8.10	4.50	0.50	0.40(fully bonded)	2.50	35	1300
B1E30KV01070RD	1	70	25	9.70	4.50	0.50	0.40(fully bonded)	2.50	36	1400
B1E30KV01095RD	1	95	25	11.40	4.50	0.50	0.40(fully bonded)	2.50	38	1600
B1E30KV01120RD	1	120	25	12.60	4.50	0.50	0.40(fully bonded)	2.50	39	1700
B1E30KV01150RD	1	150	25	14.10	4.50	0.50	0.40(fully bonded)	2.50	41	1800
B1E30KV01185RD	1	185	25	15.80	4.50	0.50	0.40(fully bonded)	2.50	42	2000
B1E30KV01240RD	1	240	25	18.10	4.50	0.50	0.40(fully bonded)	2.50	45	2250
B1E30KV01300RD	1	300	25	20.20	4.50	0.50	0.40(fully bonded)	2.50	47	2500
B1E30KV01400RD	1	400	50	23.00	4.50	0.50	0.40(fully bonded)	2.50	50	3100
B1E30KV01500RD	1	500	50	26.00	4.50	0.50	0.40(fully bonded)	2.50	54	3500
B1E30KV01630RD	1	630	50	30.10	4.50	0.50	0.40(fully bonded)	2.50	58	4000
B1E30KV03050RD	3	50	70	8.10	4.50	0.50	0.40(fully bonded)	3.20	70	4250
B1E30KV03070RD	3	70	70	9.70	4.50	0.50	0.40(fully bonded)	3.20	74	4750
B1E30KV03095RD	3	95	70	11.40	4.50	0.50	0.40(fully bonded)	3.20	78	5200
B1E30KV03120RD	3	120	70	12.60	4.50	0.50	0.40(fully bonded)	3.20	80	5500
B1E30KV03150RD	3	150	70	14.10	4.50	0.50	0.40(fully bonded)	3.20	83	6100

ELECTRICAL CHARACTERISTICS

Single Core

NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL SHORT-CIRCUIT OF CONDUCTOR CURRENT FOR 1 SECOND kA	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/km	CONDUCTOR 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	196	217	31.7
70	6.58	0.0443	0.570	238	270	32.3
95	8.93	0.320	0.412	284	328	33.2
120	11.28	0.253	0.328	322	378	34.0
150	14.10	0.206	0.268	355	425	33.8
185	17.39	0.164	0.213	400	485	34.1
240	22.56	0.125	0.163	461	572	34.6
300	28.20	0.100	0.132	516	649	35.1
400	37.60	0.0778	0.103	572	737	33.7
500	47.00	0.0605	0.0810	638	835	33.0
630	59.22	0.0469	0.0640	709	880	-

ELECTRICAL CHARACTERISTICS

Multi Core

NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL SHORT-CIRCUIT OF CONDUCTOR CURRENT FOR 1 SECOND kA	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/km	CONDUCTOR AC RESISTANCE BY MAXIMUM TEMPERATURE Ω/km	CURRENT CARRYING CAPACITY A	
				In Ground 20°C	In Air 30°C
50	4.70	0.641	0.825	168	168
70	6.58	0.443	0.570	207	210
95	8.93	0.320	0.412	247	254
120	11.28	0.253	0.328	282	294
150	14.10	0.206	0.268	315	333

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.