YMz1Krvasdlwd 18/30kV Cable

Eland Product Group: B9X

APPLICATION

LSZH Medium Voltage cable with copper conductors offering a lightweight alternative to aluminium 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
18/30kV

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

Minimum Bending Radius
15 x overall diameter

CONSTRUCTION

Conductor
Class 2 Stranded Copper

Inner Semi-Conductive Layer
Semi-Conductive Material

Insulation
XLPE (Cross-Linked Polyethylene)

Outer Semi-Conductive Layer
Semi-Conductive Material

Screen
Copper wires and tape

Outer Sheath
LSZH (Low Smoke Zero Halogen) UV Resistant

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

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			
B9X30KV01050RD	1	50	25	8.10	8.00	0.50	0.40(fully bonded)	2.50	35	1600
B9X30KV01070RD	1	70	25	9.70	8.00	0.50	0.40(fully bonded)	2.50	36	1800
B9X30KV01095RD	1	95	25	11.40	8.00	0.50	0.40(fully bonded)	2.50	38	2200
B9X30KV01120RD	1	120	25	12.65	8.00	0.50	0.40(fully bonded)	2.50	39	2400
B9X30KV01150RD	1	150	25	14.40	8.00	0.50	0.40(fully bonded)	2.50	41	2750
B9X30KV01185RD	1	185	25	15.75	8.00	0.50	0.40(fully bonded)	2.50	42	3100
B9X30KV01240RD	1	240	25	18.20	8.00	0.50	0.40(fully bonded)	2.50	45	3750
B9X30KV01300RD	1	300	25	20.50	8.00	0.50	0.40(fully bonded)	2.50	47	4400
B9X30KV01400RD	1	400	50	23.00	8.00	0.50	0.40(fully bonded)	2.50	50	5500
B9X30KV01500RD	1	500	50	26.00	8.00	0.50	0.40(fully bonded)	2.50	54	6600
B9X30KV01630RD	1	630	50	29.70	8.00	0.50	0.40(fully bonded)	2.50	58	8000

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	7.15	0.387	0.497	251	279	31.3
70	10.01	0.268	0.344	306	348	32.2
95	13.59	0.193	0.248	363	421	32.7
120	17.16	0.153	0.196	410	483	32.9
150	21.45	0.124	0.160	449	540	32.3
185	26.46	0.0991	0.128	503	615	32.4
240	34.32	0.0754	0.0980	576	718	32.5
300	42.90	0.0601	0.0800	641	812	32.9
400	57.20	0.0470	0.0640	697	904	31.1
500	71.50	0.0366	0.0510	769	1011	30.1
630	90.09	0.0283	0.0420	847	1043	-

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