

## YMz1Krvasdldw 12/20kV 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  
12/20kV

**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

**Tape**

Longitudinal and Radial Water Blocking

**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

### 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.



### 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™.





## DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL CROSS SECTIONAL AREA OF SCREEN mm <sup>2</sup>	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			
B9X20KV01050RD	1	50	25	8.10	5.50	0.50	0.40(fully bonded)	2.50	30	1300
B9X20KV01070RD	1	70	25	9.70	5.50	0.50	0.40(fully bonded)	2.50	31	1600
B9X20KV01095RD	1	95	25	11.40	5.50	0.50	0.40(fully bonded)	2.50	33	1900
B9X20KV01120RD	1	120	25	12.65	5.50	0.50	0.40(fully bonded)	2.50	34	2200
B9X20KV01150RD	1	150	25	14.40	5.50	0.50	0.40(fully bonded)	2.50	36	2500
B9X20KV01185RD	1	185	25	15.75	5.50	0.50	0.40(fully bonded)	2.50	37	2800
B9X20KV01240RD	1	240	25	18.20	5.50	0.50	0.40(fully bonded)	2.50	40	3500
B9X20KV01300RD	1	300	25	20.50	5.50	0.50	0.40(fully bonded)	2.50	42	4000
B9X20KV01400RD	1	400	50	23.00	5.50	0.50	0.40(fully bonded)	2.50	45	5100
B9X20KV01500RD	1	500	50	26.00	5.50	0.50	0.40(fully bonded)	2.50	48	6250
B9X20KV01630RD	1	630	50	29.70	5.50	0.50	0.40(fully bonded)	2.50	52	7500

## ELECTRICAL CHARACTERISTICS

### Single Core

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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	7.15	0.387	0.497	250	279	31.1
70	10.01	0.268	0.344	304	347	31.8
95	13.59	0.193	0.248	361	420	32.3
120	17.16	0.153	0.196	407	483	32.5
150	21.45	0.124	0.160	445	540	31.7
185	26.46	0.0991	0.128	498	614	31.7
240	34.32	0.0754	0.0980	569	718	31.7
300	42.90	0.0601	0.0800	633	813	32.1
400	57.20	0.0470	0.0640	686	904	30.1
500	71.50	0.0366	0.0510	756	1011	29.1
630	90.09	0.0283	0.0420	843	1070	-

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.