

## YMz1Krvasdldw 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** U<sub>0</sub>/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**  
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

### 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              |                                |                             |                      |
| 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 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   | 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        | -                                    |

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.