

## VFD 2XSLCYK-J Cable



Eland Product Group: C2B

### APPLICATION

VFD power supply and connecting cable for medium mechanical stresses in fixed installations and forced movements in dry, moist and wet environments for outdoor applications. They are particularly suitable for use with industrial pumps, ventilators, conveyor belts and air-conditioning installations and similar applications.

### CHARACTERISTICS

#### Voltage Rating

Nominal Voltage:  $U_0/U$  0.6/1 kV

Test voltage: 4 kV

Max. operating voltage: A.C. and 3 phase 0.7/1.2 kV

D.C. operation 0.9/1.8 kV

#### Temperature Range

Fixed laying: -40°C to + 70°C

Fixed installation: -15°C to + 70°C

Maximum temperature on conductor: + 90°C

Maximum temperature in short circuit: + 250°C

#### Minimum Bending Radius

Fixed laying: up to 12 mm: 5 x outer diameter

> 12 to 20 mm: 7.5 x outer diameter

> 20 mm: 10 x outer diameter

Flexible application: up to 12 mm: 10 x outer diameter

> 12 to 20 mm: 15 x outer diameter

> 20 mm: 20 x outer diameter

### CONSTRUCTION

#### Conductor

Class 5 flexible red copper

#### Insulation

Special XLPE (Cross-linked Polyethylene) compound

#### Screen

Aluminium tape + PETP foil and tinned copper braid

#### Outer Sheath

Special PVC (Polyvinyl Chloride) compound

#### Core Identification

3 conductors + 3 earth conductors: ● Grey, ● Brown ● Black and ● Green/Yellow divided in interstices

4 cores: ● Green/Yellow, ● Brown, ● Black, ● Grey

#### Sheath Colour

● Black

### STANDARDS

IEC 60228, DIN VDE 0295, DIN VDE 0293-308, HD 308 S2, EN 55011 and DIN VDE 0875 part 1, (CEI UNEL 35016), EN 13501-6,

Flame retardant according to: DIN VDE 0482 part 265-2-1, EN 50265-2-1, IEC 60332-1-2, EN 50399

UV resistant according to DIN VDE 0250

### 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 is compliant with European Regulation EN 50575, the Construction Products Regulation.



This cable meets the requirements of the Low Voltage Directive 2014/35/EU and 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.	NUMBER OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	AWG SIZE	NOMINAL OUTER DIAMETER mm	NOMINAL CABLE WEIGHT kg/km
C2B3+30015	3+3	1.5 + 3x 0.25	16 / 24	12	234
C2B3+30025	3+3	2.5 + 3x 0.5	14 / 20	13	282
C2B3+30040	3+3	4 + 3x 0.75	12 / 19	14	447
C2B3+30060	3+3	6 + 3x 1	10 / 18	16	575
C2B3+3010	3+3	10 + 3x 1.5	8 / 16	18	650
C2B3+3016	3+3	16 + 3x 2.5	6 / 14	20	846
C2B3+3025	3+3	25 + 3x 4	4 / 12	24	1325
C2B3+3035	3+3	35 + 3x 6	2 / 10	26	1840
C2B3+3050	3+3	50 + 3x 10	1 / 8	30	2718
C2B3+3070	3+3	70 + 3x 10	2/0 / 8	34	3470
C2B3+3095	3+3	95 + 3x 16	3/0 / 6	37	4540
C2B3+3120	3+3	120 + 3x 16	4/0 / 6	42	5865
C2B3+3150	3+3	150 + 3x 25	250 MCM / 4	46	6490
C2B3+3185	3+3	185 + 3x 35	350 MCM / 2	51	8595
C2B3+3240	3+3	240 + 3x 42.5	450 MCM / 1	59	11720
C2B3+3300	3+3	300 + 3x 50	550 MCM / 1	65	13380
C2B4G0015	4	1.5	16	11.3	230
C2B4G0025	4	2.5	14	12.4	300
C2B4G0040	4	4	12	13.6	485
C2B4G0060	4	6	10	14.8	630
C2B4G010	4	10	8	17.5	860
C2B4G016	4	16	6	20.2	1290
C2B4G025	4	25	4	24.8	1860
C2B4G035	4	35	2	27.4	2610
C2B4G050	4	50	1	32.0	2950
C2B4G070	4	70	2/0	37.1	3950
C2B4G095	4	95	3/0	41.6	5300
C2B4G120	4	120	4/0	45.2	6600
C2B4G150	4	150	250 MCM	52.0	7040
C2B4G185	4	185	350 MCM	58.1	8380
C2B4G240	4	240	450 MCM	66.1	11300
C2B4G300	4	300	550 MCM	71.5	13800

## ELECTRICAL CHARACTERISTICS

MINIMUM INSULATION RESISTANCE MΩm x km	RADIATION RESISTANCE cJ/kg	MAXIMUM COUPLING RESISTANCE DEPENDING ON THE CROSS-SECTION Ωm/km	MUTUAL CAPACITANCE (4 CONDUCTORS VERSION) DEPENDING ON THE CROSS-SECTION nF/km	
			Core/Core	Core/Screen
200	80x10 <sup>6</sup>	250	70 to 250	110 to 410

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.