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 particulary suitable for use with industrial pumps, ventilators, conveyor belts and air-conditioning installations and similar applications.

CHARACTERISTICS

Voltage Rating
Nominal Voltage: Uo/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

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

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, 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.	NUMBER OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	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

MINMUM INSULATION RESISTANCE MOhm x km	RADIATION RESISTANCE cJ/kg	MAXIMUM COUPLING RESISTANCE DEPENDING ON THE CROSS-SECTION Ohm/km	MUTUAL CAPACITANCE (4 CONDUCTORS VERSION) DEPENDING ON THE CROSS-SECTION nF/km	
			Core/Core	Core/Screen
200	$80x10^6$	250	70 to 250	110 to 410

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