

## VFD 9YSLCYK-J Cable



Eland Product Group: C2C

### APPLICATION

Flexible power supply cables for inverters, and connections to frequency converters including those using variable speeds (UV resistant). Double screened low capacitance design for EMC performance. Suitable for use in dry, damp and wet rooms, with good resistance to acids, caustic solutions and oils. Suitable for free as well as static use, but not suitable for continuously moving applications under tensile load or if during flexing. Commonly used in the paper, chemical and in heavy industry.

### CHARACTERISTICS

#### Voltage Rating

Nominal Voltage: U<sub>0</sub>/U 0.6/1 kV  
 UL 1000V  
 Test voltage: 4 kV

#### Temperature Range

Fixed: -50°C to + 90°C  
 Flexible: -5°C to + 90°C

UL Fixed: -40°C to + 80°C  
 UL Flexible: -5°C to + 80°C

#### Minimum Bending Radius

Single bending: 4 x outer diameter  
 Multiple bending: 20 x outer diameter

### CONSTRUCTION

#### Conductor

Class 5 flexible copper

#### Insulation

PP (Polypropylene) compound

#### Screen

Aluminium tape + PETP foil

#### Metallic Braid

TCWB (Tinned Copper Wire Braid)

#### Outer Sheath

PVC (Polyvinyl Chloride)

#### Core Identification

3 cores + 3 earth: ● 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, NFPA 79 Ed 08, UV resistant, EN 61800-3, EN VDE

Flame retardant according to: DIN VDE 0482 part 265-2-1, EN 50265-2-1, IEC 60332-1-2, UL VW-1, CSA FT-1

### 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 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>	NOMINAL OUTER DIAMETER mm	NOMINAL CABLE WEIGHT kg/km	AWG no.
C2C3+30015	3+3	1.5 + 3 G 0.25	11.4	140	16 / 24
C2C3+30025	3+3	2.5 + 3 G 0.5	12.9	220	14 / 20
C2C3+30040	3+3	4 + 3 G 0.75	13.6	323	12 / 10
C2C3+30060	3+3	6 + 3 G 1	15.2	420	10 / 18
C2C3+3010	3+3	10 + 3 G 1.5	17.4	615	8 / 16
C2C3+3016	3+3	16 + 3 G 2.5	20	819	6 / 14
C2C3+3025	3+3	25 + 3 G 4	24.3	1325	4 / 12
C2C3+3035	3+3	35 + 3 G 6	27.5	1718	2 / 10
C2C3+3050	3+3	50 + 3 G 10	31.1	2399	1 / 8
C2C3+3070	3+3	70 + 3 G 10	37.1	3056	2/0 / 8
C2C3+3095	3+3	95 + 3 G 16	40	4162	3/0 / 6
C2C3+3120	3+3	120 + 3 G 16	42.6	5074	4/0 / 6
C2C3+3150	3+3	150 + 3 G 25	50	6128	250 MCM / 4
C2C3+3185	3+3	185 + 3 G 35	55.6	7820	350 MCM / 2
C2C4G0015	4	1.5	10.5	230	16
C2C4G0025	4	2.5	11.8	300	14
C2C4G0040	4	4	13.3	485	12
C2C4G0060	4	6	14.9	630	10
C2C4G010	4	10	17.7	860	8
C2C4G016	4	16	21.5	1290	6
C2C4G025	4	25	26.3	1860	4
C2C4G035	4	35	29.7	2610	2
C2C4G050	4	50	34.1	2950	1
C2C4G070	4	70	40.9	3950	2/0
C2C4G095	4	95	45.4	5300	3/0
C2C4G120	4	120	49.8	6600	4/0
C2C4G150	4	150	56.1	7043	250 MCM
C2C4G185	4	185	61.4	8384	350 MCM
C2C4G240	4	240	67.9	12150	450 MCM

## ELECTRICAL CHARACTERISTICS

MINIMUM INSULATION RESISTANCE MΩm x km	TRANSFER IMPEDANCE AT 30 MHZ Ω/km	MUTUAL CAPACITANCE (4 CONDUCTORS VERSION) DEPENDENT ON THE CROSS-SECTION nF/km	
		Core/Core	Core/Screen
200	<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.