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: Uo/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

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 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	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

MINMUM INSULATION RESISTANCE MOhm x km	TRANSFER IMPEDANCE AT 30 MHZ Ω/km	MUTUAL CAPACITANCE (4 CONDUCTORS VERSION) DEPENDING ON THE CROSS-SECTION nF/km	
		Core/Core	Core/Screen
200	<250	70 to 250	110 to 410

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