

VFD Power Supply and Connecting Cable

1.50mm² to 35.0mm²

LSZH-HFFR Sheath

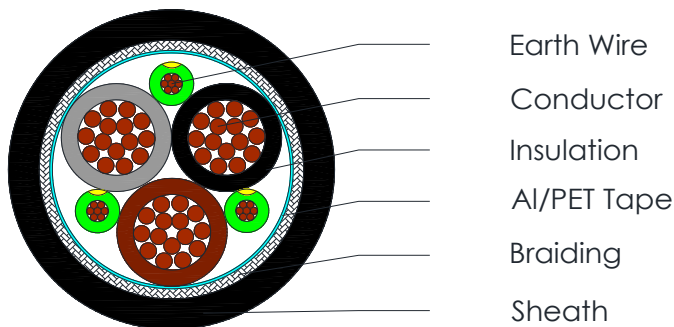


C I 5023 TO C I 5043

Applications

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.

Cross Section Drawing



Design

Unit	Properties
Conductor	Class 5 flexible plain copper wire
Insulation	Cross-linked Polyethylene (XLPE) 3 Conductors + 3 Earth conductors: Grey, Brown, Black and Green/Yellow divided in interstices 3 Cores: Green/Yellow, Brown, Blue 4 Cores: Green/Yellow, Brown, Black and Grey
Screen	Al/PET Tape
Braiding	Tinned Copper Wire
Outer Sheath Material	Halogen Free, Flame Retardant (HFFR/LSZH) Standard Colour: Black
Standard Put Up Length	305m

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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C15023 TO C15043

Electrical Characteristics at 20°C

Voltage Rating (KV)				Temperature Range (°C)				Min. Bending Radius (mm)	
Nominal Voltage U0/U	Test Voltage	Max. Operating Voltage A.C. and 3phase	D.C. Operation	Fixed laying	Fixed installation	Max. temperature on Conductor	Max. temperature in short circuit	Fixed laying	Flexible application
0.6/1.0	4.0	0.7/1.2	0.9/1.8	-40~+70	-15 ~ +70	+90	+250	7.5*OD	15*OD

Conductor Gauge (sq mm)	Max DC Resistance (Ohm/km)	Transfer impedance (MOhm/m) in the frequency range up to 100 MHz
1.5	< 14	<100
2.5	< 8.4	<100
4.0	< 5.0	<100
6.0	< 3.3	<100
10.0	< 1.91	<100
16.0	< 1.21	<100
25.0	< 0.78	<100
35.0	< 0.554	<100

Constructional Information

P/N	Number of Cores	Cross Sectional Area (mm ²)	Size (AWG)	Overall Diameter (mm)	Nom. Weight (kg/km)
C15023	3+3	3x 1.5 + 3x 0.25	16/24	12	234
C15024	3+3	3x 2.5 + 3x 0.5	14/20	13	282
C15025	3+3	3x 4 + 3x 0.75	12/19	14	447
C15026	3+3	3x 6 + 3x 1	10/18	16	575
C15027	3+3	3x 10 + 3x 1.5	8/16	18	650
C15028	3+3	3x 16 + 3x 2.5	6/14	20	846
C15029	3+3	3x 25 + 3x 4	4/12	24	1325
C15030	3+3	3x 35 + 3x 6	2/10	26	1840
C15031	3	1.5	16	10.3	173
C15032	3	2.5	14	11.3	225
C15033	3	4.0	12	12.5	364
C15034	3	6.0	10	13.5	473
C15035	3	16	6	18.3	967
C15036	4	1.5	16	11.3	230
C15037	4	2.5	14	12.4	300
C15038	4	4.0	12	13.6	485
C15039	4	6.0	10	14.8	630
C15040	4	10	8	17.5	860
C15041	4	16	6	20.2	1290
C15042	4	25	4	24.8	1860
C15043	4	35	2	27.4	2610

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Reference Standards

VDE 2050	IEC 60228
DIN VDE 0295	DIN VDE 0875 part1, (CEI UNEL 35016)
DIN VDE 0293-308	EN 13501-6
HD 308 S2	DIN VDE 0482 part 2650201
DIN VDE 0250	EN 50265-2-1
IEC 61196-1 or ANSIIINEMA WC 61	EN 50399
EN 55011	IEC60332-1
RoHS directives	IEC60332-24