

## FDXCY SERIES

High Performance Flexible VSD Power Cable 0.6/1kV 90°C



### APPLICATIONS:

**VSD Connection** Designed for the connection of AC Variable Speed Drives (VSD) or where a flexible EMC screened cable is required. These cables are flexible for fixed installation as well as occasional flexing without tensile load.

**RFI & EMI Protection** With double screening (CBS & foil tape) and split interstitial earth cores (6mm<sup>2</sup> and above), this cable has optimum screening performance of low frequency and electromagnetic output.

### PRODUCT FEATURES:

- ▶ Helps avoid reactance with other devices outside the plant
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Moisture resistant
- ▶ Resistant to environmental factors such as oxidation, ozone and sunlight
- ▶ To be earthed using an EMC compatible gland
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

### CONSTRUCTION:

**Conductor** Annealed plain copper stranded high flexibility (Class 5).

**Insulation** X-90.

**Screening** 85% tinned copper braid screen c/w 100% foil screen coverage.

**Sheath** SPVC V-90.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -20°C to 90°C / Flexing -5°C to 90°C.

**Maximum Conductor Temperature** 90°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

**Rated Voltage** U<sub>o</sub>/U 0.6/1kV.

**Max AC Operating Voltage** U<sub>o</sub> 0.7kV.


**Minimum Bending Radius** 1.5mm<sup>2</sup> – 25mm<sup>2</sup>: Fixed 4 x cable diameter / Flexing 6 x cable diameter.

35mm<sup>2</sup> – 185mm<sup>2</sup>: Fixed 6 x cable diameter / Flexing 9 x cable diameter.

**Sheath Colour** Black.

**Standard Core Colours** Red, White, Blue, Green/Yellow.

**Relevant Standards** AS/NZS 5000.1, AS/NZS 1125, AS/NZS 3808, IEC 60332-1, **RoHS** Compliant.

Code	No. of Cores x Size		Approx. Stranding Power No. of wires x mm	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Nominal Amps un-enclosed protected from sun @ 30°C fixed application	3 Phase Volt Drop @ 50Hz / MAX. Conductor Temp:
	Power (mm <sup>2</sup> )	Earth (mm <sup>2</sup> )				Fixed Installation Touching 	90°C (Mv/Am)
<b>FDXCY4/1.5</b>	3x1.5 + 1 x 1.5		30/0.25	11.8	194	21	30.000
<b>FDXCY4/2.5</b>	3x2.5 + 1 x 2.5		50/0.25	12.7	250	29	16.400
<b>FDXCY4/4.0</b>	3x4.0 + 1 x 4.0		56/0.30	14.4	322	37	10.200
<b>FDXCY4/6.0</b>	3x6.0 + 3 x 1.5		84/0.30	15.7	406	47	6.800
<b>FDXCY4/10</b>	3x10 + 3 x 1.5		140/0.30	18.0	545	67	4.050
<b>FDXCY4/16</b>	3x16 + 3 x 2.5		126/0.40	20.1	789	89	2.550
<b>FDXCY4/25</b>	3 x 25 + 3 x 4.0		200/0.40	24.4	1154	119	1.62
<b>FDXCY4/35</b>	3 x 35 + 3 x 6.0		280/0.40	26.6	1503	149	1.18
<b>FDXCY4/50</b>	3 x 50 + 3 x 10		400/0.40	31.0	2167	187	0.878
<b>FDXCY4/70</b>	3 x 70 + 3 x 10		356/0.50	34.9	2817	235	0.623
<b>FDXCY4/95</b>	3 x 95 + 3 x 16		485/0.50	39.2	3816	282	0.467
<b>FDXCY4/120</b>	3 x 120 + 3 x 16		614/0.50	43.3	4498	333	0.385
<b>FDXCY4/185</b>	3 x 185 + 3 x 35		944/0.50	53.6	6859	436	0.285
<b>FDXCY4/150</b>	3 x 150 + 3 x 25		765/0.50	48.3	5684	383	0.330
<b>FDXCY4/240</b>	3 x 240 + 3 x 35		1225/0.50	59.9	8785	519	0.245

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