

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 (6mm² 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 Uo/U 0.6/1kV.

Max AC Operating Voltage Uo 0.7kV.

Minimum Bending Radius 1.5mm² – 25mm²: Fixed 4 x cable diameter / Flexing 6 x cable diameter.

35mm² – 240mm²: 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 50001, 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 an enclosed protected from sun @ 30°C fixed application		3 Phase Volt Drop @ 50Hz / MAX. Conductor Temp: 90°C (Mv/A/m)
	Power (mm ²)	Earth (mm ²)				Fixed Installation Touching		
FDXCY4/1.5	3x1.5 + 1x1.5		30/0.25	11.8	194	21		30.000
FDXCY4/2.5	3x2.5 + 1x2.5		50/0.25	12.7	250	29		16.400
FDXCY4/4.0	3x4.0 + 1x4.0		56/0.30	14.4	322	37		10.200
FDXCY4/6.0	3x6.0 + 3x1.5		84/0.30	15.7	406	47		6.800
FDXCY4/10	3x10 + 3x1.5		140/0.30	18.0	545	67		4.050
FDXCY4/16	3x16 + 3x2.5		126/0.40	20.1	789	89		2.550
FDXCY4/25	3x25 + 3x4.0		200/0.40	24.4	1154	119		1.62
FDXCY4/35	3x35 + 3x6.0		280/0.40	26.6	1503	149		1.18
FDXCY4/50	3x50 + 3x10		400/0.40	31.0	2167	187		0.878
FDXCY4/70	3x70 + 3x10		356/0.50	34.9	2817	235		0.623
FDXCY4/95	3x95 + 3x16		485/0.50	39.2	3816	282		0.467
FDXCY4/120	3x120 + 3x16		614/0.50	43.3	4498	333		0.385
FDXCY4/150	3x150 + 3x25		765/0.50	48.3	5684	383		0.330
FDXCY4/185	3x185 + 3x25		944/0.50	53.6	6859	436		0.285
FDXCY4/240	3x240 + 3x35		1225/0.50	59.9	8785	519		0.245