

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 U_o/U 0.6/1kV.

Max AC Operating Voltage U_o 0.7kV.

Minimum Bending Radius 1.5mm² – 16mm²: Fixed 7.5 x cable diameter / Flexing 15 x cable diameter.

25mm² – 185mm²: Fixed 10 x cable diameter / Flexing 20 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	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 ²)	Earth (mm ²)				Fixed Installation Touching	90°C (Mv/Am)	
FDXCY4/1.5	3x1.5 + 1 x 1.5		30/0.25	10.6	175	21		30.000
FDXCY4/2.5	3x2.5 + 1 x 2.5		50/0.25	11.5	212	29		16.400
FDXCY4/4.0	3x4.0 + 1 x 4.0		56/0.30	12.8	288	37		10.200
FDXCY4/6.0	3x6.0 + 3 x 1.5		84/0.30	15.4	400	47		6.800
FDXCY4/10	3x10 + 3 x 1.5		140/0.30	16.8	544	67		4.050
FDXCY4/16	3x16 + 3 x 2.5		126/0.40	19.2	783	89		2.550
FDXCY4/25	3 x 25 + 3 x 4.0		200/0.40	24.6	1154	119		1.610
FDXCY4/35	3 x 35 + 3 x 6.0		280/0.40	27.3	1503	149		1.170
FDXCY4/50	3 x 50 + 3 x 10		400/0.40	32.1	2167	187		0.868
FDXCY4/70	3 x 70 + 3 x 10		356/0.50	35.9	2817	235		0.609
FDXCY4/95	3 x 95 + 3 x 16		485/0.50	42	3816	282		0.450
FDXCY4/120	3 x 120 + 3 x 16		614/0.50	43	4498	333		0.366
FDXCY4/185	3 x 185 + 3 x 35		944/0.50	58	6859	436		0.259