

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 U₀/U 0.6/1kV.


Max AC Operating Voltage U₀ 0.7kV.

Minimum Bending Radius Fixed 15 x cable diameter / Flexing 10 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 ²)	Earth (mm ²)				Fixed Installation Touching 	90°C (Mv/Am)
FDXCY4/25	3 x 25 + 3 x 4.0		200/0.40	24.6	1135	119	1.610
FDXCY4/35	3 x 35 + 3 x 6.0		280/0.40	27.3	1497	149	1.170
FDXCY4/50	3 x 50 + 3 x 10		400/0.40	32.1	2143	187	0.868
FDXCY4/70	3 x 70 + 3 x 10		356/0.50	35.9	2779	235	0.609
FDXCY4/95	3 x 95 + 3 x 16		485/0.50	42	3680	282	0.450
FDXCY4/120	3 x 120 + 3 x 16		614/0.50	43	4498	333	0.366