

# FDCY SERIES

High Performance Flexible VSD Power Cable 0.6/1kV 80°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.

### 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** PVC.  
**Screening** 85% tinned copper braid screen.  
**Sheath** SPVC.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -40°C to 80°C / Flexing -15°C to 70°C.  
**Maximum Conductor Temperature** 80°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** Fixed 6 x cable diameter / Flexing 15 x cable diameter.  
**Sheath Colour** Black.  
**Standard Core Colours** Black (Numbered) Plus / Green/Yellow Earth.  
**Relevant Standards** IEC60228, EN50525-2-51, IEC 60332-1,  
**RoHS** Compliant, Conform to 2014/35/E4CE

Code	No. of Cores x Size	Approx. Stranding Power	Approx. Overall Diameter	Approx. Weight	Nominal Amps	3 Phase Volt Drop
		No. of wires x mm	(mm)	(Kg/Km)	un-enclosed protected from sun @ 30°C fixed application Fixed Installation Touching 	@ 50Hz / MAX. Conductor Temp: 80°C (Mv/Am)
<b>FDCY5/2.5</b>	5 x 2.5	50/0.25	15	457	20	16.400
<b>FDCY5/4.0</b>	5 x 4.0	56/0.30	17.3	661	25	10.200