

# MDXCY SERIES

High Performance Flexible VSD  
Marine / 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.

**Marine** Flexible tinned copper VSD cable for installation in super yachts and other marine applications.

**Pumping** Suitable for permanent submersion up to 200 metres.

### PRODUCT FEATURES:

- ▶ Helps avoid reactance with other devices outside the plant
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Moisture resistant
- ▶ Suitable for permanent submersion to 200 metres
- ▶ 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 tinned copper stranded high flexibility (Class 5).

**Insulation** X-90.

**Bedding** SPVC V-90HT.

**Screening** Up to 6.0mm 85% tinned copper braid screen c/w 100% foil screen coverage, 10mm and above 85% tinned copper braid screen, plus split earths.

**Sheath** SPVC V-90HT.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -40°C to 90°C / Flexing -20°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** Fixed 7.5 x cable diameter / Flexing 15 x cable diameter.

#### Sheath Colour

3 Core - Black.

4 Core - (1.5mm to 6.0mm) Black & Clear.


4 Core - (10mm above) Black.

#### Standard Core Colours

3 Core – Red, Black, Green/Yellow.

4 Core – Red, White, Blue, Green/Yellow.

**Relevant Standards** IEC 60228, IEC 60332-1, AS/NZS 5000.1, AS/NZS 1125, AS/NZS 3008, **RoHS** Compliant.

Code	No. of Cores x Size		Approx. Stranding Power No. of wires x mm	Approx. Overall Diameter (mm)	Approx. Diameter Under Screen (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>MDXCY3/1.5</b>	2 x 1.5 + 1 x 1.5		30/0.25	12.5	8.6	155	25	30.000
<b>MDXCY3/2.5</b>	2 x 2.5 + 1 x 2.5		50/0.25	13.5	9.6	195	33	16.400
<b>MDXCY4/1.5</b>	3 x 1.5 + 1 x 1.5		30/0.25	13.5	9.5	195	21	30.000
<b>MDXCY4/2.5</b>	3 x 2.5 + 1 x 2.5		50/0.25	14.5	10.6	245	29	16.400
<b>MDXCY4/4.0</b>	3 x 4.0 + 1 x 4.0		56/0.30	16.5	12.7	350	37	10.200
<i>Note – split earth conductor 4 core 6.0mm<sup>2</sup> to 150.0mm<sup>2</sup> for optimal screening</i>								
<b>MDXCY4/6.0</b>	3 x 6.0 + 3 x 1.5		190/0.20	19.5	16.0	445	47	6.800
<b>MDXCY4/10</b>	3 x 10.0 + 3 x 1.5		312/0.20	21.5	17.9	675	67	4.050
<b>MDXCY4/16</b>	3 x 16.0 + 3 x 2.5		484/0.20	23.5	19.5	955	89	2.550

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