

HDXCY SERIES

Ultra Performance Flexible Rubber
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.

Pumping Suitable for permanent submersion up to 500 metres.

PRODUCT FEATURES:

- ▶ Extra durable rubber sheath
- ▶ Prevents reactance with other devices outside the plant
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Water and moisture resistant
- ▶ Resistant to environmental factors such as oxidation, ozone and sunlight
- ▶ To be earthed using an EMC compatible gland
- ▶ Suitable for permanent submersion to 500 metres (*See Technical Section*)
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

See over for full product table ▶

CONSTRUCTION:

Conductor Annealed plain copper stranded high flexibility (Class 5).

Insulation Black sheathed cables are up to 6.0mm² XLPE X-90, 10mm² and above and 5 core EPR.

Screening 3 and 4 core up to 4.0mm² aluminium / mylar tape plus tinned copper braid, 4 core 6mm² and above tinned copper braid and split earth cores, 5 core aluminium / mylar tape plus tinned copper braid (all copper braids are minimum 85% coverage plus either aluminium / mylar foil tape or split interstitial earth cores to give even greater EMC protection).

Sheath Black up to 6.0mm² NBR, Black 10mm² and above and 5 core CPE.

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_o/U 0.6/1kV.

Max AC Operating Voltage U_o 0.7kV.

Minimum Bending Radius Fixed 7.5 x cable diameter / Flexing 15 x cable diameter.

Sheath Colour Black.

Standard Core Colours


3 Core – Red, Black, Green/Yellow.

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

5 Core – Red, White, Blue, Black, Green/Yellow.

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

HDXY SERIES continued

Code	No. of Cores x Size		Approx. Stranding Power	Approx. Overall Diameter	Approx. Diameter Under Screen	Approx. Weight	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)	No. of wires x mm	(mm)	(mm)	(Kg/Km)	Fixed Installation Touching 	90°C (Mv/Am)
HDXY3/1.5	2 x 1.5 + 1 x 1.5		30/0.25	12.5	8.6	155	25	30.000
HDXY3/2.5	2 x 2.5 + 1 x 2.5		50/0.25	13.5	9.6	195	33	16.400
HDXY4/1.5	3 x 1.5 + 1 x 1.5		30/0.25	13.5	9.5	195	21	30.000
HDXY4/2.5	3 x 2.5 + 1 x 2.5		50/0.25	14.5	10.6	245	29	16.400
HDXY4/4.0	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 6.0mm² to 150.0mm² for optimal screening</i>								
HDXY4/6.0	3 x 6.0 + 3 x 1.5		190/0.20	19.5	16.0	445	47	6.800
HDXY4/10	3 x 10.0 + 3 x 1.5		312/0.20	21.5	17.9	675	67	4.050
HDXY4/16	3 x 16.0 + 3 x 2.5		484/0.20	23.5	19.5	955	89	2.550
HDXY4/25	3 x 25.0 + 3 x 4.0		777/0.20	28.5	24.5	1455	119	1.610
HDXY4/35	3 x 35.0 + 3 x 6.0		1094/0.20	32.0	25.7	2200	149	1.170
HDXY4/50	3 x 50.0 + 3 x 10.0		1552/0.20	40.0	32.7	3211	187	0.868
HDXY4/70	3 x 70.0 + 3 x 10.0		2192/0.20	43.3	35.0	3950	235	0.609
HDXY4/95	3 x 95.0 + 3 x 16.0		2928/0.20	48.7	40.5	5126	282	0.450
HDXY4/120	3 x 120.0 + 3 x 16.0		888/0.40	51.3	43.0	5925	333	0.366
HDXY4/150	3 x 150.0 + 3 x 25.0		1118/0.40	58.5	49.3	7146	374	0.307
HDXY5/2.5	4 x 2.5 + 1 x 2.5		50/0.25	18.7	13.6	533	29	16.400
HDXY5/4.0	4 x 4.0 + 1 x 4.0		127/0.21	23.0	14.9	610	37	10.200
HDXY5/6.0	4 x 6.0 + 1 x 6.0		84/0.30	24.0	16.5	952	47	6.800