

Aflex® XLPE/NBR 90°C 0.6/1kV Screened Flexible Variable Speed Drive Cables

Transparent or Black
Sheath up to 35mm²
Black only over 35mm²



Cable Construction

- 1. Conductors:**
Conductors extra fine annealed copper wires.
- 2. Insulation:**
XLPE 90°C
- 3. Screening:**
Aluminium/Mylar tape plus tinned copper braid.
- 4. Sheath:**
Black Sheath 90°C flexible NBR Elastomer, Clear sheath 90° flexible PVC, all resistant to most oils, acids & solvents.
- 5. UV stabilised and flame retardant.**
- 6. Minimum Braid Coverage 80%**
Aluminium/Mylar Coverage 100%

Temperature Range

-30 to +90°C

Related Voltage

0.6/1kV

Relevant Standards

AS 3008.1.1, AS 5000.1, IEC 60332-1

Maximum Conductor Temperature

90°C

Core Colours

2 & E Red, Black, Green/Yellow
3 & E, Red, White, Blue, Green/Yellow

Sheath Colours

Black or Clear

Bending Radius

Fixed <20mm 7.5 x dia. >20mm x 10 dia.
Flexing <20mm 15 x dia. >20mm x 20 dia.

Typical Uses

Aflex/EMV cables have been designed for connection of AC Variable speed drives and incorporates an aluminium/mylar tape plus a tinned copper braiding.

6mm² and above have 3 split earth cores for optimum performance against low and high frequencies (RFI) and electromagnetic (EMI) so that RFI/EMI may not react with other devices outside the plant.

The screening should be earthed at both ends using EMC compatible glands that ensure contact around the circumference of the cable screening.

The materials used in the manufacture of these cables are RoHS Compliant.

Technical Data

Part Number	Power Cores mm ²	Earth Cores mm ²	Nominal O.D. mm	N.O.D. under screen	Approx. Cable Weight Kg/Km	Amps 40°C Spaced	3 Phase V.D. Mv/A/M
HDXY03/1.5BK	2 x 1.5	1 x 1.5	12.5	8.6	155	24	29.4
HDXY03/2.5BK	2 x 2.5	1 x 2.5	13.5	9.6	195	34	17.6
HDXY04/1.5BK	3 x 1.5	1 x 1.5	13.5	9.5	195	20	29.4
HDXY04/2.5BK	3 x 2.5	1 x 2.5	14.5	10.6	245	28	17.6
HDXY04/4.0BK	3 x 4	1 x 4	16.5	12.7	350	38	10.9
HDXY04/6.0BK	3 x 6	3 x 1.5	19.5	16.0	445	48	7.29
HDXY03/1.5CLR	2 x 1.5	1 x 1.5	12.5	8.6	155	24	29.4
HDXY03/2.5CLR	2 x 2.5	1 x 2.5	13.5	9.6	195	34	17.6
HDXY04/1.5CLR	3 x 1.5	1 x 1.5	13.5	9.5	195	20	29.4
HDXY04/2.5CLR	3 x 2.5	1 x 2.5	14.5	10.6	245	28	17.6
HDXY04/4.0CLR	3 x 4	1 x 4	16.5	12.7	350	38	10.9
HDXY04/6.0CLR	3 x 6	3 x 1.5	19.5	16.0	445	48	7.29
HDXY04/10CLR	3 x 10	3 x 1.5	21.5	17.9	675	66	4.38
HDXY04/16CLR	3 x 16	3 x 2.5	23.5	19.5	955	88	2.68
HDXY04/25CLR	3 x 25	3 x 4	28.5	24.5	1455	120	1.62
HDXY04/35CLR	3 x 35	3 x 6	32.0	25.7	2200	145	1.19
HDXY04/50CLR	3 x 50	3 x 10	33.0	27.2	2600	180	0.902

Ambient temperature conversion factors	Ambient Temperature (°C)		25	30	35	40	45	50
	Derating Factors		1.15	1.10	1.05	1.0	0.94	0.88