



HIGHER-VOLTAGE EMC DRIVE CABLE

IEC 60502-1

9 orderable sizes

STANDARD IEC 60502-1	VOLTAGE CLASS 1.8/3 kV	CONDUCTOR Class 5 flexible copper conductor
INSULATION / JACKET LSZH		

Construction

- 1 ■ Conductor (per core) – Class 5 flexible copper conductor · 196 × Ø0.4 mm · IEC 60228 cl.5
- 2 ■ Core insulation – XLPE or drive-grade cross-linked insulation
- 3 ■ Filler – PP filler
- 4 ■ Shield – Braid shield (C)
- 5 ■ Sheath – LSZH

Size selection — all available cross-sections

Cable reference	Voltage class	Core / ground design	Power conductor	Max DC resistance at 20 °C	EMC screen	OD guide
1.8/3 kV LSZH EMC VFD cable 1.8/3 kV 3 x 25 mm ² + 3 symmetrical grounds x 4 mm ²	1.8/3 kV	3 x 25 mm ² + 3 symmetrical grounds x 4 mm ²	25 mm ²	0.780 Ω/km	Aluminium/polyester tape plus tinned copper braid screen	28 mm
1.8/3 kV LSZH EMC VFD cable 1.8/3 kV 3 x 35 mm ² + 3 symmetrical grounds x 4 mm ²	1.8/3 kV	3 x 35 mm ² + 3 symmetrical grounds x 4 mm ²	35 mm ²	0.554 Ω/km	Aluminium/polyester tape plus tinned copper braid screen	30 mm
1.8/3 kV LSZH EMC VFD cable 1.8/3 kV 3 x 50 mm ² + 3 symmetrical grounds x 10 mm ²	1.8/3 kV	3 x 50 mm ² + 3 symmetrical grounds x 10 mm ²	50 mm ²	0.386 Ω/km	Aluminium/polyester tape plus tinned copper braid screen	33 mm
1.8/3 kV LSZH EMC VFD cable 1.8/3 kV 3 x 70 mm ² + 3 symmetrical grounds x 10 mm ²	1.8/3 kV	3 x 70 mm ² + 3 symmetrical grounds x 10 mm ²	70 mm ²	0.272 Ω/km	Aluminium/polyester tape plus tinned copper braid screen	37 mm

Cable reference	Voltage class	Core / ground design	Power conductor	Max DC resistance at 20 °C	EMC screen	OD guide
1.8/3 kV LSZH EMC VFD cable 1.8/3 kV 3 x 95 mm ² + 3 symmetrical grounds x 16 mm ²	1.8/3 kV	3 x 95 mm ² + 3 symmetrical grounds x 16 mm ²	95 mm ²	0.206 Ω/km	Aluminium/polyester tape plus tinned copper braid screen	40 mm
1.8/3 kV LSZH EMC VFD cable 1.8/3 kV 3 x 120 mm ² + 3 symmetrical grounds x 16 mm ²	1.8/3 kV	3 x 120 mm ² + 3 symmetrical grounds x 16 mm ²	120 mm ²	0.161 Ω/km	Aluminium/polyester tape plus tinned copper braid screen	43 mm
1.8/3 kV LSZH EMC VFD cable 1.8/3 kV 3 x 150 mm ² + 3 symmetrical grounds x 25 mm ²	1.8/3 kV	3 x 150 mm ² + 3 symmetrical grounds x 25 mm ²	150 mm ²	0.129 Ω/km	Aluminium/polyester tape plus tinned copper braid screen	47 mm
1.8/3 kV LSZH EMC VFD cable 1.8/3 kV 3 x 185 mm ² + 3 symmetrical grounds x 25 mm ²	1.8/3 kV	3 x 185 mm ² + 3 symmetrical grounds x 25 mm ²	185 mm ²	0.106 Ω/km	Aluminium/polyester tape plus tinned copper braid screen	50 mm
1.8/3 kV LSZH EMC VFD cable 1.8/3 kV 3 x 240 mm ² + 3 symmetrical grounds x 25 mm ²	1.8/3 kV	3 x 240 mm ² + 3 symmetrical grounds x 25 mm ²	240 mm ²	0.0801 Ω/km	Aluminium/polyester tape plus tinned copper braid screen	55 mm