



LOW-CAPACITANCE DRIVE CABLE

IEC 60502-1

9 orderable sizes

STANDARD IEC 60502-1	VOLTAGE CLASS 0.6/1 kV	CONDUCTOR Class 5 flexible copper conductor
INSULATION / JACKET Oil and UV resistant sheath		

Construction

- 1 ■ Conductor (per core) – Class 5 flexible copper conductor · 276 × Ø0.4 mm · IEC 60228 cl.5
- 2 ■ Core insulation – Low-capacitance XLPE insulation
- 3 ■ Filler – PP filler
- 4 ■ Shield – Braid shield (C)
- 5 ■ Sheath – Oil and UV resistant sheath

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
Low capacitance XLPE VFD cable 0.6/1 kV 3 x 6 mm ² + 3 symmetrical grounds x 1.5 mm ²	0.6/1 kV	3 x 6 mm ² + 3 symmetrical grounds x 1.5 mm ²	6 mm ²	3.30 Ω/km	Copper tape plus overall copper braid screen	15 mm
Low capacitance XLPE VFD cable 0.6/1 kV 3 x 10 mm ² + 3 symmetrical grounds x 1.5 mm ²	0.6/1 kV	3 x 10 mm ² + 3 symmetrical grounds x 1.5 mm ²	10 mm ²	1.91 Ω/km	Copper tape plus overall copper braid screen	17 mm
Low capacitance XLPE VFD cable 0.6/1 kV 3 x 16 mm ² + 3 symmetrical grounds x 1.5 mm ²	0.6/1 kV	3 x 16 mm ² + 3 symmetrical grounds x 1.5 mm ²	16 mm ²	1.21 Ω/km	Copper tape plus overall copper braid screen	19 mm
Low capacitance XLPE VFD cable 0.6/1 kV 3 x 25 mm ² + 3 symmetrical grounds x 4 mm ²	0.6/1 kV	3 x 25 mm ² + 3 symmetrical grounds x 4 mm ²	25 mm ²	0.780 Ω/km	Copper tape plus overall copper braid screen	22 mm
Low capacitance XLPE VFD cable 0.6/1 kV 3 x 35 mm ² + 3 symmetrical	0.6/1 kV	3 x 35 mm ² + 3 symmetrical	35 mm ²	0.554 Ω/km	Copper tape plus overall	24 mm

Cable reference	Voltage class	Core / ground design	Power conductor	Max DC resistance at 20 °C	EMC screen	OD guide
35 mm ² + 3 symmetrical grounds x 4 mm ²		grounds x 4 mm ²			copper braid screen	
Low capacitance XLPE VFD cable 0.6/1 kV 3 x 50 mm ² + 3 symmetrical grounds x 10 mm ²	0.6/1 kV	3 x 50 mm ² + 3 symmetrical grounds x 10 mm ²	50 mm ²	0.386 Ω/km	Copper tape plus overall copper braid screen	27 mm
Low capacitance XLPE VFD cable 0.6/1 kV 3 x 70 mm ² + 3 symmetrical grounds x 10 mm ²	0.6/1 kV	3 x 70 mm ² + 3 symmetrical grounds x 10 mm ²	70 mm ²	0.272 Ω/km	Copper tape plus overall copper braid screen	31 mm
Low capacitance XLPE VFD cable 0.6/1 kV 3 x 95 mm ² + 3 symmetrical grounds x 16 mm ²	0.6/1 kV	3 x 95 mm ² + 3 symmetrical grounds x 16 mm ²	95 mm ²	0.206 Ω/km	Copper tape plus overall copper braid screen	34 mm
Low capacitance XLPE VFD cable 0.6/1 kV 3 x 120 mm ² + 3 symmetrical grounds x 16 mm ²	0.6/1 kV	3 x 120 mm ² + 3 symmetrical grounds x 16 mm ²	120 mm ²	0.161 Ω/km	Copper tape plus overall copper braid screen	37 mm