



DRIVE CABLE WITH SIGNAL PAIR

UL 1277 / UL 2277

8 orderable sizes

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| STANDARD UL 1277 / UL 2277 | VOLTAGE CLASS 600 V / 1000 V | CONDUCTOR Class 5 flexible copper conductor |
| INSULATION / JACKET Oil, UV and flame resistant PVC sheath | | |

Construction

- 1 ■ Conductor (per core) – Class 5 flexible copper conductor · 276 × Ø0.4 mm · IEC 60228 cl.5
- 2 ■ Pair insulation – XLPE insulation
- 3 ■ Filler – Bedding / filler
- 4 ■ Overall screen (OS) – Al/polyester foil + drain
- 5 ■ Sheath – Oil, UV and flame resistant PVC 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 |
|---|----------------|---|---------------------|----------------------------|---|----------|
| VFD combo power and signal cable 600 V / 1000 V 3 x 2.5 mm ² + 3 grounds + 1 screened pair | 600 V / 1000 V | 3 x 2.5 mm ² + 3 grounds + 1 screened pair | 2.5 mm ² | 7.98 Ω/km | Overall foil and braid screen with screened signal pair | 14 mm |
| VFD combo power and signal cable 600 V / 1000 V 3 x 4 mm ² + 3 grounds + 1 screened pair | 600 V / 1000 V | 3 x 4 mm ² + 3 grounds + 1 screened pair | 4 mm ² | 4.95 Ω/km | Overall foil and braid screen with screened signal pair | 15 mm |
| VFD combo power and signal cable 600 V / 1000 V 3 x 6 mm ² + 3 grounds + 1 screened pair | 600 V / 1000 V | 3 x 6 mm ² + 3 grounds + 1 screened pair | 6 mm ² | 3.30 Ω/km | Overall foil and braid screen with screened signal pair | 16 mm |

| Cable reference | Voltage class | Core / ground design | Power conductor | Max DC resistance at 20 °C | EMC screen | OD guide |
|--|----------------|--|--------------------|----------------------------|---|----------|
| VFD combo power and signal cable 600 V / 1000 V 3 x 10 mm ² + 3 grounds + 1 screened pair | 600 V / 1000 V | 3 x 10 mm ² + 3 grounds + 1 screened pair | 10 mm ² | 1.91 Ω/km | Overall foil and braid screen with screened signal pair | 18 mm |
| VFD combo power and signal cable 600 V / 1000 V 3 x 16 mm ² + 3 grounds + 1 screened pair | 600 V / 1000 V | 3 x 16 mm ² + 3 grounds + 1 screened pair | 16 mm ² | 1.21 Ω/km | Overall foil and braid screen with screened signal pair | 20 mm |
| VFD combo power and signal cable 600 V / 1000 V 3 x 25 mm ² + 3 grounds + 1 screened pair | 600 V / 1000 V | 3 x 25 mm ² + 3 grounds + 1 screened pair | 25 mm ² | 0.780 Ω/km | Overall foil and braid screen with screened signal pair | 23 mm |
| VFD combo power and signal cable 600 V / 1000 V 3 x 35 mm ² + 3 grounds + 1 screened pair | 600 V / 1000 V | 3 x 35 mm ² + 3 grounds + 1 screened pair | 35 mm ² | 0.554 Ω/km | Overall foil and braid screen with screened signal pair | 25 mm |
| VFD combo power and signal cable 600 V / 1000 V 3 x 50 mm ² + 3 grounds + 1 screened pair | 600 V / 1000 V | 3 x 50 mm ² + 3 grounds + 1 screened pair | 50 mm ² | 0.386 Ω/km | Overall foil and braid screen with screened signal pair | 28 mm |