



TRAY CABLES

VFD Combo XLPE Type WTTC

Variable frequency drive - double shielded tray cable with XLPE insulation and shielded pair



(UL) TC-ER 90C DRY/WET 600V OIL RES I/II



Markings for VFD Combo XLPE 35691404: SAB NORTH AMERICA VFD Combo XLPE 14AWG(2.08MM²)/4C + 1PR 14 AWG P/N 35691404 (UL) Type TC-ER Shielded 90C Dry/Wet 600V, Oil Res I & II, Sunlight Resistant, Direct Burial, (UL) WTTC 1000V, (UL) Flexible Motor Supply Cable, c(UL) CIC-TC XLPE 600V FT4, CSA AWM I/II A/B 90C 1000V FT4 RoHS CE

VFD Combo XLPE is a flexible shielded motor supply cable designed for adjustable speed drives and servo systems. Included is an individually shielded pair for wiring a brake or temperature sensor. The cores are insulated with a thicker cross linked insulation providing better heat resistance, low capacitance and better protection against corona discharge. VFD Combo XLPE is UL TC-ER, 600V, UL WTTC, c(UL) CIC/TC, & UL/CSA AWM approved up to 1000V and is 100% shielded with both a foil and braided shield making this cable resistant to Electromagnetic Interference (EMI) from voltage spikes, harmonics, and power distortions frequently associated with variable frequency drives. This cable can be used both indoors and outdoors within or without conduit (exposed run) up to any length. Its unique flame retardant jacket makes the VFD Combo XLPE approved for both cable tray (TC) applications as well as control and instrumentation applications. VFD Combo XLPE is suitable for installations in wet or dry locations (90°C), is UV resistant, and is rated for direct burial. VFD Combo XLPE is permitted to be used in hazardous (classified) locations Class I, Division 2 per NEC Article 501.4 (B), and is UL Type WTTC in acc. to UL standard 2277. Wind Turbine power and control cable (WTTC) is intended to be installed in cable trays or raceways within a wind turbine generator.

Construction:

| | |
|--------------------------|---|
| Conductor: | tinned copper strands class K |
| Insulation: | special formulated crosslinked PE, earth wire PVC |
| Color code: | black conductors with consecutive white numbers and green-yellow earth wire, pair is black with white #5 and #6 |
| Stranding: | in layers |
| Screen (pair): | aluminum foil and drain wire (drain wire same size as pair) |
| Screen (overall): | double shield, AMA foil and tinned copper braiding |
| Jacket material: | special sunlight and oil resistant copolymer |
| Jacket color: | black |

Outstanding features:

- Interconnection of variable frequency drive control device to variable frequency motors
- Shielded pair for a brake or temperature sensor
- TC-ER: UL Standard 1277
- WTTC: UL Subject 2277
- Crosslinked conductors, better for longer installations
- Oil Res I & II
- Double shield (100% shielded)
- Rated for 90°C wet

Technical data:

| | |
|---------------------------------------|---|
| Voltage: | (UL) / c(UL): 600 V CSA-AWM: 1000 V (UL) WTTC: 1000 V |
| Testing voltage U: | 3000 V |
| Min. bending radius: | 12 x O.D. |
| Temperature: | (UL) / c(UL) / CSA-AWM: up to +90°C static: -40°C |
| Burning characteristics: | (UL) / c(UL) FT4, c(UL) / CSA-AWM FT1, FT2 |
| Oil resistant: | yes |
| Sunlight resistance: | yes |
| Exposed Runs: | yes |
| Direct Burial: | yes |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/25 |

| item no. | AWG | Pair | nominal outer ø inch | mm | cable weight lbs/mft |
|----------|-------|--------|-------------------------|------|-------------------------|
| 35691614 | 16/4c | 18/1pr | 0.587 | 14.9 | 144 |
| 35691414 | 14/4c | 18/1pr | 0.628 | 16.0 | 175 |
| 35691404 | 14/4c | 14/1pr | 0.645 | 16.4 | 213 |
| 35691214 | 12/4c | 18/1pr | 0.672 | 17.1 | 231 |
| 35691204 | 12/4c | 14/1pr | 0.688 | 17.5 | 277 |
| 35691004 | 10/4c | 14/1pr | 0.769 | 19.5 | 354 |
| 35690804 | 8/4c | 14/1pr | 0.977 | 24.8 | 536 |
| 35690604 | 6/4c | 14/1pr | 1.021 | 25.9 | 726 |
| 35690404 | 4/4c | 14/1pr | 1.126 | 28.6 | 1011 |
| 35690204 | 2/4c | 14/1pr | 1.267 | 32.2 | 1401 |



temperature resistant down to - 40°C heavy duty application

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