



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/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, CSAAWM 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 PE insulation providing better heat resistance low capacitance and better protection against corona discharge. VFD Combo XLPE is UL TC-ER, 600V, UL WTTC, Flexible Motor Supply Cable 1000V 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 1 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
- UL Flexible Motor Supply Cable 1000V
- 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 <i>static:</i> -40°C to +105°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	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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