



# TRAY CABLES

## VFD XLPE TR Type WTTC

Variable frequency drive -  
double shielded tray cable with  
XLPE insulation



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



Markings for VFD XLPE TR 35681404: SAB NORTH AMERICA VFD XLPE TR 14AWG/4C P/N 35681404 (UL)  
Type TC-ER 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 XLPE TR is a flexible shielded motor supply cable designed for adjustable speed drives and servo systems. The cores are insulated with a thicker cross linked insulation providing better heat resistance, low capacitance and better protection against corona discharge. VFD XLPE TR 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. It's unique flame retardant jacket makes the VFD XLPE TR approved for both cable tray (TC) applications as well as control and instrumentation applications. VFD XLPE TR is suitable for installations in wet or dry locations, is UV resistant, and is rated for direct burial. VFD XLPE TR 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:

<b>Conductor:</b>	tinned copper strands class K
<b>Insulation:</b>	special formulated crosslinked PE, earth wire PVC
<b>Color code:</b>	black conductors with consecutive white numbers and green-yellow earth wire
<b>Stranding:</b>	in layers
<b>Screen:</b>	double shield, AMA foil and tinned copper braiding
<b>Jacket material:</b>	special sunlight and oil resistant copolymer
<b>Jacket color:</b>	black

### Outstanding features:

- Interconnection of variable frequency drive control device to variable frequency motors
- TC-ER: UL Standard 1277
- UL Flexible Motor Supply Cable 1000V
- WTTC: UL Subject 2277
- Crosslinked conductors
- Oil Res I & II
- Double shield (100% shielded)

### Technical data:

<b>Voltage:</b>	(UL) / c(UL): 600 V CSA-AWM: 1000 V (UL) WTTC: 1000 V
<b>Testing voltage U:</b>	3000 V
<b>Min. bending radius:</b>	12 x O.D.
<b>Temperature:</b>	(UL) / c(UL) / CSA-AWM: up to +90°C <i>static:</i> -40°C to +105°C
<b>Burning characteristics:</b>	(UL) / c(UL) FT4, c(UL) / CSA-AWM FT1, FT2
<b>Oil resistant:</b>	yes
<b>Sunlight resistance:</b>	yes
<b>Exposed Runs:</b>	yes
<b>Direct Burial:</b>	yes
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/25

Item no.	AWG	nominal inch ± 10%	outer-ø mm ± 10%	cable weight ≈ lbs/mft
➤ 35681604	16/4c	0.499	12.7	125
➤ 35681404	14/4c	0.535	13.6	159
➤ 35681204	12/4c	0.592	15.0	214
➤ 35681004	10/4c	0.683	17.3	294
➤ 35680804	8/4c	0.893	22.7	556
➤ 35680604	6/4c	1.018	25.9	736
➤ 35680404	4/4c	1.161	29.5	1079
➤ 35680204	2/4c	1.342	34.1	1550

Other dimensions and colors are possible on request.



temperature  
resistant  
down to - 40°C  
heavy duty  
application