

TRAY & VFD CABLES

Compliant with NFPA 79
2018: Article "4.2.2.8
Circuits Supplied from Power
Conversion Equipment"



VFD XLPE TR D Type TC-ER

Variable frequency drive -
double shielded VFD cable with
drain wire and XLPE insulation



600V FT4, CSA AWM I/II A/B 90C 1000V FT4 RoHS CE

Marking for VFD XLPE TR D 35681404D:

SAB NORTH AMERICA VFD XLPE TR D P/N 35681404D (UL) Type TC-ER-JP 14AWG/3C RHW-2 CDRS + GNDG CDR 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 D 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 D is UL TC-ER, 600V, UL WTTC, UL 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 runs) up to any length. Its unique flame retardant jacket makes the VFD XLPE TR D approved for both cable tray (TC) applications as well as control and instrumentation applications. VFD XLPE TR D is suitable for installations in wet or dry locations, is UV resistant, and is rated for direct burial. VFD XLPE TR D 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. with 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:	blackish/gray conductors with consecutive white numbers and green-yellow earth wire
Stranding:	in layers
Screen:	double shield, AMA foil and tinned copper braiding with drain wire
Jacket material:	special sunlight and oil resistant copolymer
Jacket color:	black

Outstanding features:

- interconnection of variable frequency drive control device to variable frequency motors
- UL 90°C wet
- WTTC: UL subject 2277
- TC-ER: UL standard 1277
- UL flexible motor supply cable 1000V
- crosslinked conductors, better for longer installations
- Oil Res I & II
- double shield (100% shielded)
- drain wire included
- UL TC-ER-JP (joist pull)*

Technical data:

Voltage:	(UL) / c(UL): 600 V CSA-AWM: 1000 V (UL) WTTC: 1000 V
Testing voltage:	3000 V
Min. bending radius:	12 x O.D.
Temperature:	(UL) / c(UL) / CSA-AWM: up to +90°C static: -40/+105°C
Burning characteristics:	(UL) / c(UL) FT4, c(UL) / CSA-AWM FT1, FT2
Oil resistance:	yes
Sunlight resistance:	yes
Exposed Runs:	yes
Cold bend test:	-40°C
Direct Burial:	yes
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

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	AWG/c	drain wire AWG	nominal inch	outer-ø mm	10%	cable weight ≈ lbs/ft
➤ 35681604D	16/4c	16	0.493	12.5	144	
➤ 35681404D	14/4c	14	0.522	13.3	180	
➤ 35681204D	12/4c	12	0.592	15.0	237	
➤ 35681004D	10/4c	10	0.680	17.3	327	
➤ 35680804D	8/4c	4x14	0.886	22.5	620	
➤ 35680604D	6/4c	4x12	0.974	24.7	805	
➤ 35680404D	4/4c	4x10	1.090	27.7	1150	
➤ 35680204D	2/4c	4x8	1.247	31.7	1600	

Other dimensions and colors are possible on request

* UL TC-ER-JP (joist pull) added Sept. 1, 2021



- Temperature resistant down to -40°C.
- Heavy duty application.

E-mail: info@sabcable.com



Web site: www.sabcable.com