

# VFD Cables

## VFD XLPE TR

Variable frequency drive - double shielded VFD cable with XLPE insulation  
Type TC-ER



Marking for VFD XLPE TR 35681404:

SAB NORTH AMERICA VFD XLPE TR P/N 35681404 (UL) Type TC-ER 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

### Construction:

<b>Conductor:</b>	tinned copper strands class K
<b>Insulation:</b>	special formulated crosslinked PE, ground wire PVC
<b>Color code:</b>	blackish gray conductors with consecutive white numbers and green/yellow ground
<b>Stranding:</b>	in layers
<b>Shielding:</b>	double shield, AMA foil and tinned copper braiding
<b>Jacket material:</b>	special sunlight and oil resistant copolymer
<b>Jacket color:</b>	black (RAL 9005)

### 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 1000 V
- crosslinked conductors, better for longer installations
- Oil Res I & II
- double shielded (100% shielded)
- Class 1 Div 2 per NEC Article 501.4 (B)

### Technical data:

<b>Voltage:</b>	(UL) / c(UL): 600 V
	CSA-AWM: 1000 V
	(UL) WTTC: 1000 V
<b>Testing voltage:</b>	3000 V
<b>Min. bending radius:</b>	12 x O.D.
<b>Temperature range:</b>	(UL) / c(UL) / CSA-AWM: up to +90°C
<i>static:</i>	-40/105°C
<b>Burning characteristics:</b>	(UL) / CSA FT4
<b>Oil resistance I &amp; II:</b>	yes
<b>Sunlight resistance:</b>	yes
<b>Exposed runs:</b>	yes
<b>Cold bend test:</b>	-40°C
<b>Direct burial:</b>	yes
<b>Approvals:</b>	UL TC-ER, UL WTTC, c(UL) CIC-TC, CSA AWM, CE, RoHS
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30

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

### Larger AWG Sizes - minimums may apply

item no.	AWG/c	outer-ø		cable weight ≈lbs/mft
		±10% inch	±10% mm	
▶ 35681104	1/0-4c	1.565	39.8	2168
▶ 35682104	2/0-4c	1.661	42.2	2550
▶ 35683104	3/0-4c	1.830	46.5	3135
▶ 35684104	4/0-4c	2.083	52.9	3844
▶ 35682504	250/4c	2.217	56.3	4566
▶ 35683504	350/4c	2.471	62.8	6106
▶ 35685004	500/4c	3.121	79.3	8609

2 conductor cable does not have ground

Other dimensions and colors are available on request

item no.	AWG/c	outer-ø		cable weight ≈lbs/mft
		±10% inch	±10% mm	
▶ 35681604	16/4c	0.477	12.1	125
▶ 35681404	14/4c	0.522	13.3	159
▶ 35681204	12/4c	0.592	15.0	214
▶ 35681004	10/4c	0.680	17.3	294
▶ 35680804	8/4c	0.886	22.5	556
▶ 35680604	6/4c	0.968	24.6	736
▶ 35680404	4/4c	1.090	27.7	1079
▶ 35680204	2/4c	1.247	31.7	1550
▶ 35680104	1/4c	1.444	36.7	1190

\* UL TC-ER-JP (joist pull) available upon request