

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:

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

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 range:	(UL) / c(UL) / CSA-AWM: up to +90°C
<i>static:</i>	-40/105°C
Burning characteristics:	(UL) / c(UL) FT4, c(UL) / CSA-AWM FT1, FT2
Oil resistance I & II:	yes
Sunlight resistance:	yes
Exposed runs:	yes
Cold bend test:	-40°C
Direct burial:	yes
Approvals:	UL TC-ER, UL WTTC, c(UL) CIC-TC, CSA AWM, CE, RoHS
Absence of harmful substances:	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	nominal outer-ø		cable weight ≈lbs/mft
		inch 10%	mm 10%	
▶ 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

Other dimensions and colors are possible on request.

item no.	AWG/c	nominal outer-ø		cable weight ≈lbs/mft
		inch 10%	mm 10%	
▶ 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