

Tray & VFD Cables

VFD Symmetrical XLPE TR

Variable frequency drive - double shielded VFD cable with XLPE insulation and 3 symmetrical grounds, Type TC-ER

NFPA 79
for industrial
machinery



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



Marking for VFD Symmetrical XLPE TR 35681003:

SAB NORTH AMERICA VFD Symmetrical XLPE TR P/N 35681003 (UL) TC-ER 10AWG/3C RHW-2 CDRS + 3 x 14 AWG GNDS 90C Dry/Wet, Oil Resistant 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
Color code:	blackish gray conductors with consecutive white numbers
Stranding:	in layers with 3 tinned ground wires in the interstices
Shielding:	double shield, AMA foil and tinned copper braiding
Jacket material:	special sunlight and oil resistant copolymer
Jacket color:	black (RAL 9005)

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 -40/105°C
static:	
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
Approvals:	UL TC-ER, UL WTTC, cUL CIC-TC, CSA AWM, CE, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:

- interconnection of variable frequency drive control device to variable frequency motors
- WTTC approval
- finer strand for better flexibility
- 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)
- 3 symmetrical grounds
- Class 1 Div 2 per NEC Article 501.4 (B)

item no.	AWG/c kcmil/c	ground wire n x AWG	nominal outer-ø inch 10%	mm 10%	cable weight ≈lbs/mft
▶ 35681403	14/3c	3x18	0.501	12.7	170
▶ 35681203	12/3c	3x16	0.570	14.5	230
▶ 35681003	10/3c	3x14	0.642	16.3	312
▶ 35680803	8/3c	3x14	0.811	20.6	465
▶ 35680603	6/3c	3x12	0.954	24.2	674
▶ 35680403	4/3c	3x12	1.062	27.0	877
▶ 35680203	2/3c	3x10	1.226	31.1	1266
▶ 35680103	1/3c	3x8	1.305	33.1	1545
▶ 35681103	1/0-3c	3x8	1.408	35.8	1757
▶ 35682103	2/0-3c	3x8	1.507	38.3	2167
▶ 35683103	3/0-3c	3x6	1.601	40.7	2508
▶ 35684103	4/0-3c	3x6	1.890	48.0	3060
▶ 35682503	250/3c	3x6	2.005	50.9	3680
▶ 35683503	350/3c	3x2	2.231	56.7	5170
▶ 35685003	500/3c	3x2	2.490	63.2	6353

Other dimensions and colors are possible on request.



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