

VFD Cables for Automation

VFD Symmetrical XLPE TR

Flexible VFD cable with 3 symmetrical grounds
Type TC-ER



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



(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:	class K tinned copper stranding
Insulation:	special formulated XLPE
Color code:	blackish gray #’d conductors with green/yellow ground
Stranding:	in layers with 3 tinned ground wires in the interstices
Shielding:	double shield, AMA foil and tinned copper braiding (85% coverage)
Jacket material:	special sunlight and oil resistant black PVC

Technical data:

Voltage:	UL/c(UL):	600 V
	CSA-AWM:	1000 V
	UL WTTC:	1000 V
Temperature:	UL/c(UL)/	
	CSA-AWM:	up to +90°C
	static:	-40/105°C
Burning characteristics:	UL/c(UL) FT4	

Outstanding features:

- XLPE insulation for excellent capacitance values
- Oil resistant meeting Oil Res 1 & 2
- 3 symmetrical grounds for CMC
- Tinned Class K stranding for improved flexibility
- UL TC-ER, UL MTW, UL WTTC & UL Flexible Motor Supply Cable
- c(UL) CIC-TC, CSA AWM FT 4
- Conductors rated for RHW-2

Part Number	AWG/C	Ground	nominal OD-Ø		Cable weight lbs/mft	Amperaget		Maximum Horse Power Rating*		
			inch	mm		75°	90°	230V	460V	575V
35681403	14/3c	3 x 18	0.501	12.7	170	-	25	5	10	15
35681203	12/3c	3 x 16	0.570	14.5	230	25	30	7 1/2	15	20
35681003	10/3c	3 x 14	0.642	16.3	312	35	40	10	20	30
35680803	8/3c	3 x 14	0.811	20.6	465	50	55	15	30	40
35680603	6/3c	3 x 12	0.954	24.2	674	65	75	20	40	50
35680403	4/3c	3 x 12	1.062	27.0	877	85	95	25	50	60
35680203	2/3c	3 x 10	1.226	31.1	1266	115	130	40	75	100

Part Number	EMC Cable Gland						VFD Termination Kit
	Metric Thread		PG Thread		NPT Thread		
	EMC-2	EMC-4	EMC-2	EMC-4	EMC-2	EMC-4	
35681403	EM2-25C	EM4-25	EP2-16	EP4-21	-	EN4-3/4	VFD GRD KIT 14-1
35681203	EM2-25C	EM4-25	EP2-21	EP4-21	EN2-3/4	EN4-3/4	VFD GRD KIT 14-1
35681003	EM2-25C	EM4-25	EP2-21	EP4-21	EN2-3/4	EN4-3/4	VFD GRD KIT 14-1
35680803	EM2-32C	EM4-32	EP2-29	EP4-29	EN2-1	EN4-1	VFD GRD KIT 14-1
35680603	EM2-32C	EM4-40	EP2-36	EP4-36	EN2-1	EN4-1 1/4	VFD GRD KIT 14-1
35680403	EM2-40C	EM4-40	EP2-36	EP4-36	-	EN4-1 1/4	VFD GRD KIT 14-1
35680203	EM2-50C	EM4-50	EP2-42	EP4-42	-	EN4-1 1/2	VFD GRD KIT 14-1

Table shows recommended cable glands. Other thread sizes may be available. Refer to EMC gland pages at the end of this brochure.

† Allowable ampacities are based on no more than three current carrying conductors in a raceway, cable, or direct buried and an ambient temperature of 30°C (2011 NEC Table 310.15(B)(16))
* Maximum Horse Power rating represents the largest HP motor the AWG is recommended for based on horse power (HP) and the full load current (FLC) x 125% per NEC Art. 430-122 (A). Amperes (FLC) were determined from NEC Art. 430-250