

VFD Cables for Automation

VFD XLPE Auto TR

Continuous flex and oil resistant VFD Cable with XLPE insulation
Type TC-ER



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



(UL) Type TC-ER 14AWG/4C RHW-2 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:	class M tinned copper stranding
Insulation:	special formulated XLPE
Color code:	blackish gray #’d conductors with green/yellow ground
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)/	up to +90°C
	CSA-AWM:	
	static:	
Burning characteristics:	UL/c(UL) FT4	

Outstanding features:

- XLPE insulation for excellent capacitance values
- Oil resistant meeting Oil Res 1 & 2
- Sun Res and Direct Burial approved
- Class M stranding for continuous flexing
- 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	nominal OD-Ø		Cable weight lbs/mft	Amperaget		Maximum Horse Power Rating*		
		inch	mm		75°	90°	230V	460V	575V
35781604	16/4c	0.512	13.0	129	-	18	2	3	5
35781404	14/4c	0.569	14.5	164	20	25	5	10	15
35781204	12/4c	0.646	16.4	220	25	30	7 1/2	15	20
35781004	10/4c	0.704	17.9	303	35	40	10	20	30
35780804	8/4c	0.909	23.1	567	50	55	15	30	40
35780604	6/4c	0.988	25.1	758	65	75	20	40	50
35780404	4/4c	1.173	29.8	1111	85	95	25	50	60

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	
35781604	EM2-25	EM4-20C	EP2-16	EP4-16	EN2-3/4	EN4-1/2C	-
35781404	EM2-25C	EM4-25	EP2-21	EP4-21	EN2-3/4	EN4-3/4	VFD GRD KIT 14-1
35781204	EM2-25C	EM4-25	EP2-21	EP4-21	EN2-3/4	EN4-3/4	VFD GRD KIT 14-1
35781004	EM2-32C	EM4-32	EP2-29	EP4-29	EN2-3/4	EN4-3/4	VFD GRD KIT 14-1
35780804	EM2-32C	EM4-32	EP2-29	EP4-29	EN2-1	EN4-1	VFD GRD KIT 14-1
35780604	EM2-40C	EM4-40	EP2-36	EP4-36	-	EN4-1 1/4	VFD GRD KIT 14-1
35780404	EM2-40C	EM4-40	EP2-36	EP4-36	-	EN4-1 1/4	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