

VFD Cables for Automation

VFD XLPE TR Lean

XLPE insulated, double shielded and flexible VFD cable with reduced O.D.

Type TC-ER



(UL) Type TC-ER 14AWG/3C XHHN-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:	class K 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)/	
	CSA-AWM:	up to +90°C
	static:	-40/105°C
Burning characteristics:	UL/c(UL) FT4	

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 1000V
- recommended for installations up to 100ft
- Oil Res I & II
- double shield (100% shielded)

Part Number	AWG/C	nominal OD-Ø		Cable weight lbs/mft	Amperaget		Maximum Horse Power Rating*		
		inch	mm		75°	90°	230V	460V	575V
35661804	18/4c	0.383	9.7	94		14	1	2	3
35661604	16/4c	0.423	10.7	120		18	2	3	5
35661404	14/4c	0.468	11.9	153	20	25	5	10	15
35661204	12/4c	0.530	13.4	207	25	30	7 1/2	15	20
35661004	10/4c	0.606	15.4	286	35	40	10	20	30
35660804	8/4c	0.814	20.7	471	50	55	15	30	40

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	
35661804	EM2-20	EM4-20	EP2-13	EP4-13	EN2-1/2	EN4-1/2	VFD GRD KIT 14-1
35661604	EM2-20	EM4-20	EP2-13	EP4-13	EN2-1/2	EN4-1/2	VFD GRD KIT 14-1
35661404	EM2-25	EM4-20	EP2-16	EP4-16	EN2-1/2	EN4-1/2C	VFD GRD KIT 14-1
35661204	EM2-25C	EM4-25	EP2-21	EP4-21	EN2-3/4	EN4-3/4	VFD GRD KIT 14-1
35661004	EM2-25C	EM4-25	EP2-21	EP4-21	EN2-3/4	EN4-3/4	VFD GRD KIT 14-1
35660804	EM2-32	EM4-32	EP2-29	EP4-29	EN2-1	EN4-3/1	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