

# VFD Cables for Automation

## VFD Combo XLPE

XLPE insulation plus shielded pair  
Type TC-ER



UL) Type TC-ER 14AWG/3C RHW-2 CDRS + GNDG CDR + 14AWG/1PR 90C Dry/Wet 600V, Oil Res I & II, Sunlight Resistant, Direct Burial, (UL) WTTTC 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:

<b>Conductor:</b>	class K tinned copper stranding
<b>Insulation:</b>	special formulated XLPE
<b>Shielding:</b>	
pair:	aluminum foil and drain wire (drain wire same size as pair)
overall:	double shield, AMA foil and tinned copper braiding
<b>Jacket material:</b>	special sunlight and oil resistant black PVC

### Technical data:

<b>Voltage:</b>	UL/c(UL): 600 V	CSA-AWM: 1000 V	UL WTTTC: 1000 V
<b>Temperature:</b>	UL/c(UL)/CSA-AWM: up to +90°C	static: -40/105°C	
<b>Burning characteristics:</b>	UL/c(UL) FT4		
<b>Color code:</b>	blackish gray #’d conductors with green/yellow ground		

### Outstanding features:

- XLPE insulation for excellent capacitance values
- Shielded pair for temperature sensor or brake
- Oil resistant meeting Oil Res 1 & 2
- Sun Res and Direct Burial approved
- UL TC-ER, UL MTW, UL WTTTC & UL Flexible Motor Supply Cable
- c(UL) CIC-TC, CSA AWM FT 4
- Conductors rated for RHW-2

Part Number	AWG/C	Pair	nominal OD-Ø		Cable weight lbs/mft	Amperaget		Maximum Horse Power Rating*		
			inch	mm		75°	90°	230V	460V	575V
35691614	16/4c	18/1pr	0.573	14.6	144	-	18	-	3	3
35691624D	16/4c	16/1pr	0.580	14.7	210	-	18	-	3	3
35691414	14/4c	18/1pr	0.616	15.6	175	20	25	5	10	10
35691464	14/4c	18/2pr	0.662	16.8	254	20	25	5	10	10
35691424D	14/4c	16/1pr	0.626	15.9	257	20	25	5	10	10
35691404	14/4c	14/1pr	0.628	16.0	213	20	25	5	10	10
35691214	12/4c	18/1pr	0.654	16.6	231	25	30	5	10	15
35691264	12/4c	18/2pr	0.698	17.7	299	25	30	5	10	15
35691224D	12/4c	16/1pr	0.662	16.8	308	25	30	5	10	15
35691204	12/4c	14/1pr	0.667	16.9	277	25	30	5	10	15
35691064	10/4c	18/2pr	0.762	19.4	383	35	40	7 1/2	15	20
35691024D	10/4c	16/1pr	0.738	18.7	417	35	40	7 1/2	15	20
35691004	10/4c	14/1pr	0.736	18.7	354	35	40	7 1/2	15	20
35690864	8/4c	18/2pr	0.961	24.4	576	50	55	10	25	30
35690804	8/4c	14/1pr	0.960	24.4	536	50	55	10	25	30
35690664	6/4c	16/2pr	1.032	26.2	766	65	75	15	30	40
35690604	6/4c	14/1pr	1.030	26.2	726	65	75	15	30	40
35690404	4/4c	14/1pr	1.140	29.0	1011	85	95	20	40	50
35690204	2/4c	14/1pr	1.280	32.5	1401	115	130	30	60	75

D in P/N includes drain wire with overall shield (same AWG as power conductors)

Part Number		EMC Cable Gland						VFD Termination Kit
without Drain Wire	with Drain Wire	Metric Thread		PG Thread		NPT Thread		
		EMC-2	EMC-4	EMC-2	EMC-4	EMC-2	EMC-4	
35691614	35691624D	EM2-25C	EM4-25	EP2-21	EP4-21	EN2-3/4	EN4-3/4	-
35691414	35691424D	EM2-25C	EM4-25	EP2-21	EP4-21	EN2-3/4	EN4-3/4	VFD GRD KIT 14-1
35691404	-	EM2-25C	EM4-25	EP2-21	EP4-21	EN2-3/4	EN4-3/4	VFD GRD KIT 14-1
35691464	-	EM2-25C	EM4-25	EP2-21	EP4-21	EN2-3/4	EN4-3/4	VFD GRD KIT 14-1
35691214	-	EM2-25C	EM4-25	EP2-21	EP4-21	EN2-3/4	EN4-3/4	VFD GRD KIT 14-1
35691204	35691224D	EM2-25C	EM4-25	EP2-21	EP4-21	EN2-3/4	EN4-3/4	VFD GRD KIT 14-1
35691264	-	EM2-25C	EM4-25	EP2-21	EP4-21	EN2-3/4	EN4-3/4	VFD GRD KIT 14-1
35691004	35691024D	EM2-32C	EM4-32	EP2-29	EP4-29	EN2-1	EN4-1	VFD GRD KIT 14-1
35691064	-	EM2-32C	EM4-32	EP2-29	EP4-29	EN2-1	EN4-1	VFD GRD KIT 14-1
35690804	-	EM2-40C	EM4-40	EP2-36	EP4-36	EN2-1	EN4-1 1/4	VFD GRD KIT 14-1
35690864	-	EM2-40C	EM4-40	EP2-36	EP4-36	EN2-1	EN4-1 1/4	VFD GRD KIT 14-1
35690604	-	EM2-40C	EM4-40	EP2-36	EP4-36	-	EN4-1 1/4	VFD GRD KIT 14-1
35690664	-	EM2-40C	EM4-40	EP2-36	EP4-36	-	EN4-1 1/4	VFD GRD KIT 14-1
35690404	-	EM2-40C	EM4-40	EP2-36	EP4-36	-	EN4-1 1/4	VFD GRD KIT 14-1
35690204	-	EM2-50C	EM4-50	EP2-42	EP4-42	-	EN4-1 1/2	VFD GRD KIT 14-1

† 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 (FLO) were determined from NEC Art. 430-250

