

VFD Cables

VFD Combo XLPE

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



FT4 CSA AWM I/II A/B 90°C 1000V FT1 FT2 CE

Marking for VFD Combo XLPE 35691404:

SAB NORTH AMERICA VFD Combo XLPE P/N 35691404 (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) 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, ground wire: PVC, pair: PVC/Nylon
Color code:	blackish gray conductors with consecutive white numbers and green/yellow ground, pair is black with white #5 and #6
Stranding:	in layers
Shielding (pair):	aluminum foil and drain wire (drain wire same size as pair)
Shielding (overall):	double shield, AMA foil and tinned copper braiding
Jacket material:	special sunlight and oil resistant copolymer
Jacket color:	black (RAL 9005)

Outstanding features:

- interconnection of variable frequency drive control device to variable frequency motors
- shielded pairs for a brake or temperature sensor
- WTTC: UL subject 2277
- 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)
- rated for UL 90°C wet
- Class 1 Div 2 per NEC Article 501.4 (B)

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
Burning characteristics:	(UL) / c(UL) FT4, c(UL) / CSA-AWM FT1, FT2
Oil resistance I & II:	yes
Sunlight resistance:	yes
Exposed runs:	yes
Cold bend test:	-40°C
Direct burial:	yes
Approvals:	UL TC-ER, UL WTTC, c(UL) CIC-TC, CSA AWM, CE, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30



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

item no.	AWG/c	AWG/pair	nominal outer-ø		cable weight ≈lbs/mft
			inch 10%	mm 10%	
▶ 35691614	16/4c	18/1pr	0.573	14.6	144
▶ 35691624D	16/4c	16/1pr	0.580	14.7	210
▶ 35691414	14/4c	18/1pr	0.616	15.6	175
▶ 35691404	14/4c	14/1pr	0.628	16.0	213
▶ 35691424D	14/4c	16/1pr	0.626	15.9	257
▶ 35691464	14/4c	18/2pr	0.662	16.8	254
▶ 35691214	12/4c	18/1pr	0.654	16.6	231
▶ 35691224D	12/4c	16/1pr	0.662	16.8	308
▶ 35691204	12/4c	14/1pr	0.667	16.9	277
▶ 35691264	12/4c	18/2pr	0.698	17.7	299
▶ 35691004	10/4c	14/1pr	0.736	18.7	354
▶ 35691024D	10/4c	16/1pr	0.746	18.9	417

item no.	AWG/c	AWG/pair	nominal outer-ø		cable weight ≈lbs/mft
			inch 10%	mm 10%	
▶ 35691064	10/4c	18/2pr	0.762	19.4	383
▶ 35690804	8/4c	14/1pr	0.960	24.4	536
▶ 35690864	8/4c	18/2pr	0.961	24.4	576
▶ 35690604	6/4c	14/1pr	1.030	26.2	726
▶ 35690664	6/4c	16/2pr	1.032	26.2	766
▶ 35690404	4/4c	14/1pr	1.140	29.0	1011
▶ 35690464	4/4c	14/2pr	1.192	30.3	1068
▶ 35690204	2/4c	14/1pr	1.280	32.5	1401

Other dimensions and colors are possible on request.

D means drain wire in P/N

* UL TC-ER-JP (joist pull) available upon request