

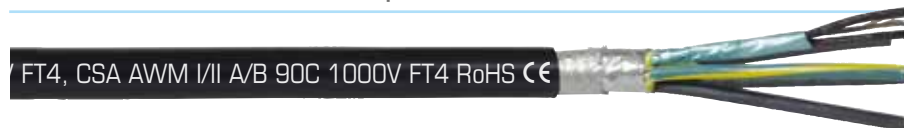
Servo Motor Cables

VFD Combo XLPE type TC-ER

Variable frequency drive - double shielded VFD cable with XLPE insulation and screened pair

NFPA 79
for industrial plants

SABVFD



marking example:

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

Application: VFD Combo XLPE is a flexible shielded motor supply cable designed for adjustable speed drives and servo systems. Included is an individually shielded pair for wiring a brake or temperature sensor. The cores are insulated with a thicker cross linked insulation providing better heat resistance, low capacitance and better protection against corona discharge.

Construction:

Conductor:	tinned copper strands class K
Insulation:	crosslinked PE, earth wire: PVC, pair: PVC/Nylon
Colour code:	blackish cores with consecutive numbers and green-yellow earth wire, pair is black with white numbers 5 and 6
Stranding:	in layers
Screen (pair):	aluminum foil and drain wire (drain wire same size as pair)
Screen (overall):	double shield, AMA foil and tinned copper braiding
Sheath material:	special sunlight and oil resistant copolymer
Sheath colour:	black (RAL 9000)

Technical data:

Voltage (UL) / c(UL):	600 V
CSA-AWM / (UL) WTTC:	1000 V
Testing voltage:	3000 V
Min. bending radius:	12 x d
Temperature range	(UL) / c(UL) / CSA-AWM: up to +90 °C -40/+105 °C
fixed laying:	
Fire performance:	(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
Absence of harmful substances:	acc. to RoHS directive of the European Union, see chapter N „Technical data“

Outstanding features:

- » interconnection of variable frequency drive control device to variable frequency motors
- » shielded pairs for a brake or temperature sensor
- » UL 90°C wet
- » WTTC: UL subject 2277
- » TC-ER: UL standard 1277
- » flexible UL-motor connection cable 1000 V
- » crosslinked conductors, better for longer installations
- » oil resistance I & II
- » double shield (100% shielded)
- » Class 1 Div 2 per NEC Article 501.4 (B)

Temperature resistant down to -40°C
Heavy duty application

item no.	cross section/ no. of cores AWG/c	no. of pair/ cross section AWG/pr	outer-ø ± 10% mm	cable weight ≈ kg/km
35691614	16/4c	18/1pr	14,6	144
35691624D	16/4c	16/1pr	14,7	210
35691414	14/4c	18/1pr	15,6	175
35691404	14/4c	14/1pr	16,0	213
35691424D	14/4c	16/1pr	15,9	257
35691464	14/4c	18/2pr	16,8	254
35691214	12/4c	18/1pr	16,6	231
35691224D	12/4c	16/1pr	16,8	308
35691204	12/4c	14/1pr	16,9	277
35691264	12/4c	18/2pr	17,7	299
35691004	10/4c	14/1pr	18,7	354
35691024D	10/4c	16/1pr	18,9	417

item no.	cross section/ no. of cores AWG/c	no. of pair/ cross section AWG/pr	outer-ø ± 10% mm	cable weight ≈ kg/km
35691064	10/4c	18/2pr	19,4	383
35690804	8/4c	14/1pr	24,4	536
35690864	8/4c	18/2pr	24,4	576
35690604	6/4c	14/1pr	26,2	726
35690664	6/4c	16/2pr	26,2	766
35690404	4/4c	14/1pr	29,0	1011
35690464	4/4c	14/2pr	30,3	1068
35690204	2/4c	14/1pr	32,5	1401

Other dimensions and colours are possible on request.

D = drain wire.

UL TC-ER-JP (joist pull) available on request.