

# TRAY CABLES



## Servo VFD Combo DS Variable frequency drive - tray cable with overall copper screen



Marking for Servo VFD Combo DS 08530444:

BRÖCKSKES · D-VIERSEN · Servo VFD Combo DS 4 AWG/4c + 16 AWG/2pr 08530444 (UL) Type TC-ER 90°C 600V, Oil I, Sunlight Resistant, Direct Burial, FT4 AWM Style 21179 105°C 1000V c(UL) Type CIC 90°C dry 600V FT1 FT2 FT4 CSA AWM I/II A/B 90°C 1000V FT1 FT2

Servo VFD Combo DS is a flexible shielded motor supply cable designed for automated servo systems. This cable can be used without jacket (exposed runs). Its unique flame retardant jacket makes the Servo VFD Combo DS rated for 600V suitable for tray cable application and also as Control and Instrumentation Cable, UL and CSA AWM approved for 1000 Volt. The Servo VFD Combo DS has an outer PVC jacket and both a foil and a braid shield which helps with problems related to voltage spikes, harmonics, and power distortions frequently associated with variable frequency drives. The Servo VFD Combo DS can be used to connect alternating current variable frequency drives to alternating current variable frequency motors and is approved for up to 50' of open wiring to make installations less cumbersome. This motor supply cable is also suitable for installation in wet or dry locations and is UV resistant. The Servo VFD Combo DS can be used in indoor or outdoor applications and is rated for direct burial. The combination of the braid and foil shield makes the VFD DS 100% shielded from excessive interference. Servo VFD Combo DS is permitted to be used in hazardous (classified) locations class I, Division 2 per NEC Article 501.4 (B), UL Type TC is in acc. to UL standard 1277 and NEC Article 336 (392, 501).

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to DIN VDE 0295 class 5 + IEC 60228 class 5 + HD 383 class 5 from 18 AWG - 14 AWG, from 10 AWG - 2 AWG class k in acc. to ASTM B 172
<b>Insulation:</b>	special formulated PVC/Nylon
<b>Color code:</b>	black conductors with consecutive white numbers and a green-yellow earth wire
<b>Stranding:</b>	signal conductors in pairs
<b>Screen:</b>	pairwise with alu foil, tinned copper drain wire AWG 26 and braided with tinned copper wires
<b>Wrapping:</b>	pairwise with PETP foil
<b>Stranding:</b>	screened signal pair(s) and power conductors in layers
<b>Wrapping:</b>	non-woven tape
<b>Screen :</b>	double shield, alu foil and tinned copper braiding
<b>Jacket material:</b>	special sunlight and oil resistant PVC
<b>Jacket color:</b>	black

### Outstanding features:

- Interconnection of variable frequency drive control device to variable frequency motors

### Technical data:

<b>Voltage:</b>	(UL) / c(UL): 600 V UL-AWM/CSA-AWM: 1000 V
<b>Testing voltage U:</b>	conductor/conductor 7500 V conductor/screen 3000 V
<b>Min. bending radius:</b>	7.5 x O.D.
<b>Temperature :</b>	UL-AWM: up to +105°C (UL) / c(UL) / CSA-AWM: up to +90°C
<b>Burning characteristics:</b>	(UL) / c(UL) FT4, c(UL) / CSA-AWM FT1, FT2
<b>Oil resistant:</b>	yes
<b>Sunlight resistance:</b>	yes
<b>Exposed Runs:</b>	yes
<b>Direct Burial:</b>	yes
<b>Absence of harmful substances:</b>	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page M/25

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item no.	dimensions	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 08531614	16 AWG/4c + 18 AWG/1pr	0.469	11.9	140
▶ 08531604	16 AWG/4c + 14 AWG/1pr	0.516	13.1	174
▶ 08531464	14 AWG/4c + 18 AWG/2pr	0.693	17.6	262
▶ 08531414	14 AWG/4c + 18 AWG/1pr	0.504	12.8	170
▶ 08531404	14 AWG/4c + 14 AWG/1pr	0.555	14.1	207
▶ 08531264	12 AWG/4c + 18 AWG/2pr	0.724	18.4	300
▶ 08531214	12 AWG/4c + 18 AWG/1pr	0.563	14.3	224
▶ 08531204	12 AWG/4c + 14 AWG/1pr	0.610	15.5	269
▶ 08531064	10 AWG/4c + 18 AWG/2pr	0.756	19.2	371
▶ 08531004	10 AWG/4c + 14 AWG/1pr	0.689	17.5	344
▶ 08530864	8 AWG/4c + 18 AWG/2pr	0.937	23.8	541
▶ 08530804	8 AWG/4c + 14 AWG/1pr	0.878	22.3	520
▶ 08530644	6 AWG/4c + 16 AWG/2pr	1.043	26.5	733
▶ 08530604	6 AWG/4c + 14 AWG/1pr	1.024	26.0	705
▶ 08530444	4 AWG/4c + 16 AWG/2pr	1.217	30.9	1015
▶ 08530404	4 AWG/4c + 14 AWG/1pr	1.157	29.4	982

Other dimensions and colors are possible on request.

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Web site: [www.sabcable.com](http://www.sabcable.com)