

Marking for Servo VFD Combo DS 08530444: SAB BRÖCKSKES · D-VIERSEN · Servo VFD Combo DS 4 AWG/4c + 16 AWG/2pr 08530444 THHN + TFFN (\u0175L) Type TC-ER 90°C 600V, Oil I, Sunlight Resistant, Direct Burial, FT4 (\u0175L) WTTC 90°C 1000V (\u0175L) MTW 600V flexing AWM Style 21179 1000V c(\u0175L) Type CIC SHIELDED 4 AWG/4c + 16 AWG/2pr 90°C dry 600V FT1, FT2, FT4 CSA AWM I/II A/B 90°C 1000V FT1 FT2 CC

Servo VFD Combo DS is a flexible shielded motor supply cable designed for automated servo systems. Also machine-tool cable for use as specified in the National Electrical Code (NFPA 70) and in the National Fire Protection Association Electrical Standard for Industrial Machinery (NFPA 79). This cable can be used without conduit (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 AWM recognized and CSA 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 recommended 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). Wind turbine power and control cable is interference.

## Construction:

Conductor:	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		
Insulation:	special formulated PVC/Nylon		
Color code:	black conductors with consecutive white numbers and a green-yellow earth wire		
Stranding:	signal conductors in pairs		
Screen:	pairwise with alu foil, tinned copper drain wire AWG 26 and braided with tinned copper wires		
Wrapping:	pairwise with PETP foil		
Stranding:	screened signal pair(s) and power conductors in layers		
Wrapping:	non-woven tape		
Screen :	double shield, alu foil and tinned copper braiding		
Jacket material:	special sunlight and oil resistant PVC		
Jacket color:	black		

Voltage:	(UL) / c(UL): 600 ∨ UL-AWM/CSA-AWM: 1000 ∨ (UL) WTTC: 1000 ∨			
Testing voltage U:	conductor/conductor 7500 V conductor/screen 3000 V			
Min. bending radius:	12 x O.D.			
Temperature: static:	UL-AWM: (UL) / c(UL) / CSA-AWM:   up to +105°C up to +90°C   -25°C up to +90°C			
Burning characteristics:	(UL) / c(UL) FT4, c(UL) / CSA-AWM FT1, FT2			
Oil resistant:	yes			
Sunlight resistance:	yes			
Exposed Runs:	yes			
Direct Burial:	yes			
Machinery Area:	yes			
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/25			

**Technical data:** 

## Outstanding features:

- Interconnection of variable frequency drive control device to variable frequency motors
- NFPA 79 for Industrial Machinery
- New improved with WTTC
- WTTC: UL Subject 2277
- TC: UL Standard 1277
- (UL)/(cUL) listed

item no.	dimensions	nominal inch	outer-ø 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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