

TRAY & VFD CABLES

VFD Combo DS Type TC-ER and MTW Variable frequency drive - VFD cable with one or two shielded pairs



Marking for VFD Combo DS 08530444: SAB BRÖCKSKES · D-VIERSEN · VFD Combo DS 4 AWG/4c + 16 AWG/2pr 08530444

THHN + TFFN (UL) Type TC-ER 90°C 600V, Oil I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTC 90°C 1000V (UL) MTW 600V flexing AWM Style 21179 1000V c(UL) 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 CE

VFD Combo DS is a flexible shielded motor supply cable designed for automated servo systems. VFD Combo DS comes with one or two shielded pairs for use with a braking motor or temperature sensor (shielded pairs). Its unique flame retardant jacket provides the VFD Combo DS with a rating for 600V suitable for tray, cable application and as Control and Instrumentation Cable, UL AWM recognized and CSA approved for 1000V. The VFD Combo DS has an outer PVC jacket and both foil and braided shield which helps with problems related to voltage spikes, harmonics, and power distortion frequently associated with variable frequency drives. The VFD Combo DS can be used to connect alternating current variable frequency drives to alternating current variable frequency motor drives recommended for making installations less cumbersome. This motor supply cable is also suitable for installation in wet or dry locations and is UV resistant. The 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 cable 100% shielded from excessive interference. 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 intended to be installed in cable trays or raceways within a wind turbine generator.

Construction:

Conductor:	tinned copper strands acc. to DIN VDE 0295 class 5 + IEC 60228 class 5 + HD 383 class 5 from 18 AWG - 12 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 pairs: black conductors with white numbers 5/ 6 & 7/8
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

Technical data:

Voltage:	(UL) / c(UL): 600 V UR-AWM/CSA-AWM: 1000 V (UL) WTTC: 1000 V
Testing voltage:	conductor/conductor 7500 V conductor/screen 3000 V
Min. bending radius:	12 x O.D.
Temperature:	UR-AWM: (UL) / c(UL) / CSA-AWM: up to +105°C up to +90°C <i>static:</i> -25°C
Burning characteristics:	(UL) / c(UL) FT4, c(UL) / CSA-AWM FT1, FT2
Oil resistance:	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 O/30

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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.

Outstanding features:

- ▶ interconnection of variable frequency drive control device to variable frequency motors
- ▶ shielded pairs for brake or temperature sensor
- ▶ WTTC: UL subject 2277
- ▶ TC: UL standard 1277
- ▶ (UL)/(cUL) listed

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