

TRAY & VFD CABLES



VFD Dual TR Type TC-ER and MTW Variable frequency drive - double insulated tray cable and machine-tool cable



Marking for VFD Dual TR 08620404: SAB BRÖCKSKES · D-VIERSEN · VFD Dual TR 4 AWG/4c 08620404
 THHN (UL) Type TC-ER 90°C 600V, Oil I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTC 90°C 1000V (UL) MTW 4 AWG/4c 600V
 AWM Style 21179 1000V c(UL) Type CIC SHIELDED 4 AWG/4c 90°C dry 600V FT1, FT2, FT4 CSA AWM I/II A/B 90°C 1000V FT1 FT2 CE

VFD Dual TR 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 VFD Dual TR 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 VFD Dual TR is double insulated, has an inner PVC jacket as well as 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 VFD Dual TR can be used to connect alternating current variable frequency drives to alternating current variable frequency motors and is approved with TC-ER to make installations less cumbersome. This motor supply cable is also suitable for installation in wet or dry locations and is UV resistant. The VFD Dual TR 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 Dual TR 100% shielded from excessive interference. VFD Dual TR 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. MTW listed cables can be used in NFPA 79 Machine areas.

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 green-yellow earth wire
Stranding:	in layers
Inner jacket:	special formulated PVC, color black
Screen:	double shield, alu foil and tinned copper braiding
Jacket material:	special sunlight and oil resistant PVC
Jacket color:	black

Outstanding features:

- ▶ Interconnection of variable frequency drive control device to variable frequency motors
- ▶ NFPA 79 for Industrial Machinery
- ▶ inner jacket for extra protection
- ▶ WTTC: UL Subject 2277
- ▶ TC: UL Standard 1277
- ▶ (UL)/(cUL) listed

Technical data:

Voltage:	(UL) / c(UL): 600 V UL-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:	UL-AWM: up to +105°C (UL) / c(UL) / CSA-AWM: 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 N/25

item no.	AWG/c	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 08621804	18/4c	0.390	9.9	95
▶ 08621604	16/4c	0.417	10.6	114
▶ 08621404	14/4c	0.461	11.7	155
▶ 08621204	12/4c	0.508	12.9	196
▶ 08621004	10/4c	0.677	17.2	330
▶ 08620804	8/4c	0.874	22.2	519
▶ 08620604	6/4c	1.035	26.3	731
▶ 08620404	4/4c	1.213	30.8	1027
▶ 08620204	2/4c	1.382	35.1	1408

Other dimensions and colors are possible on request.