## TRAY & VFD CABLES



#### VFD symmetrical Type TC-ER and MTW Lean TR

Variable frequency drive shielded VFD cable and tray cable with three tinned ground wires

### T4 CSA AWM I/II A/B 90°C 1000V FT1 FT2 €€



**Technical data:** 

acc. to RoHS directive of the European Union

see page O/30

Marking for VFD symmetrical Lean TR 08641403: SAB BRÖCKSKES · D-VIERSEN · VFD symmetrical Lean TR 14 AWG/3c 08641403 THHN (UL) Type TC-ER 90°C 600V, Oil I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTC 90°C 1000V (UL) MTW 14 AWG/3c 600V flexing AWM Style 21179 1000V c(UL) Type CIC SHIELDED 14 AWG/3c 90°C dry 600V FT1, FT2, FT4 CSA AWM I/II A/B 90°C 1000V FT1 FT2 (€

VFD symmetrical Lean TR is a flexible shielded motor supply cable designed for automated servo systems. The VFD symmetrical Lean TR contains a symmetrical arrangement of three phase leads and three tinned copper (PE) earth wires. The symmetrical placement of three phase leads and three earth wires ensures proper earthing paths and minimizes the risk of motor failure from common-mode current. This cable can be used without conduit (exposed runs). Its unique flame retardant jacket makes the VFD symmetrical Lean TR rated for 600V suitable for tray cable applications and also as Control and Instrumentation

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Co	ons	tru	cti	on:

Conductor:	tinned copper strands acc. to DIN VDE 0295 class 5 + IEC 60228 class 5 + HD 383 class 5	Voltage:	(UL) / c(UL): UR-AWM/CSA-AW (UL) WTTC:	600 V M: 1000 V 1000 V	
	from 18 AWG - 12 AWG, from 10 AWG - 2 AWG class K in acc. to ASTM B 172	Testing voltage:	conductor/conducto conductor/screen	or 7500 V 3000 V	
Insulation:		Min. bending radius:	12 x O.D.		
insulation:	special formulated PVC/Nylon	Temperature:	UR-AWM:	(UL) / c(UL) / CSA-AWM:	
Color code:	black conductors with consecutive white numbers	static:	up to +105°C -25°C	up to +90°C	
Stranding:	in layers with three tinned ground wires in the fillers	Burning characteristics:	(UL) / c(UL) FT4, c(UL) / CSA-AWM FT1, FT2		
		Oil resistance:	yes		
Screen:	double shield, alu foil and tinned copper braiding	Sunlight resistance:	yes		
Jacket material:	special sunlight and oil resistant PVC	Exposed Runs:	yes		
Jacket color:	black	Direct Burial:	yes		
Jacker COIOL	black	Machinery Area:	yes		
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Absence of

harmful substances:

#### **Outstanding features:**

- interconnection of variable frequency > drive control device to variable frequency motors
- WTTC: UL subject 2277
- TC: UL standard 1277 >
- three tinned ground wires for optimal performance

item no.	AWG/c	ground wire n x AWG	nominal o inch	outer-ø mm	cable weight ≈ lbs/mfl
08641603	16/3c	3 x 20	0.350	8.9	87
08641403	14/3c	3 x 18	0.390	9.9	118
08641203	12/3c	3 x 16	0.445	11.3	169
08641003	10/3c	3 x 16	0.567	14.4	260
08640803	8/3c	3 x 14	0.701	17.8	385
08640603	6/3c	3 x 12	0.866	22.0	555
08640403	4/3c	3 x 12	1.024	26.0	801
08640203	2/3c	3x 6	1.185	30.1	1292
08640103	1/3c	3x 6	1.350	34.3	1761

Other dimensions and colors are possible on request

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#### Web site: www.sabcable.com