

TRAY & VFD CABLES

TR 600 black Type TC-ER, MTW UV and oil resistant 90°C and WTTC flexible tray cable



600V c(UL) Type CIC 90°C dry 600V FT1 FT2

Marking for TR 600 black 02841637: SAB BRÖCKSKES · D-VIERSEN · TR 600 black 16 AWG/37c 02841637
 TFFN (UL) Type TC-ER 90°C 600V, Oil Resistant I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTC 90°C 1000V (UL) MTW 16 AWG/37c 600V flexing
 AWM Style 21179 600V c(UL) Type CIC 90°C dry 600V FT1 FT2 FT4 CSA AWM I/II A/B 90°C 1000V FT1 FT2 CE

TR 600 black is a multi-conductor, 600 V, 90°C, UL recognized and CSA approved, UV and oil resistant flexible tray cable. It is also machine tool cable for use as specified in the National Electrical Code (NFPA 70) and the National Fire Protection Association Electrical Standard for industrial machinery (NFPA 70). This cable can be used without conduit (if so specified). The reduced outer diameter permits easy handling and installation in confined areas. Our specially designed PVC jacket passes the stringent requirements of the VDE test 0211 part 1 and H 21.1 oil test providing the best oil resistance available for PVC jacket. TR 600 black tray cable is designed for use in all electrical equipment in dry, damp and wet conditions. Recommended applications are machine control systems, assembly lines, CNC machining centers, grinding machines, bottling equipment, data processing equipment and connections between control panels and machine. TR 600 black is permitted to be used in hazardous (classified) locations Class I, Division 2 per NEC Article 501 (B), UL type is acc. to standard 1277 and NFPA 70 Article 336 (300.20). Wind turbine power and control cable is intended to be installed in cable trays or cable trays with airblow generator. MTW listed cables can be used in NFPA 79 Machine areas.

Construction:

Conductor:	bare copper strands acc. to IEC 60228 class 5 and UL standard 758 table 5.1 + UL 1581 table 20.1
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with consecutive white numbers; green-yellow earth wire from 3 conductors
Stranding:	in layers
Jacket material:	special sunlight and oil resistant PVC
Jacket color:	black

Outstanding features:

- ▶ flexible cable for cable tray use even where sunlight resistance and open wiring is required
- ▶ NFPA 79 for Industrial Machinery
- ▶ WTTC: UL subject 2277
- ▶ TC: UL standard 1277
- ▶ (UL)/(cUL) listed

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTC / CSA-AWM: 1000 V	
Testing voltage:	4000 V	
Min. bending radius <i>fixed installation:</i>	< 12 mm = 3 x O.D. > 12 mm = 4 x O.D.	
<i>free movement:</i>	< 12 mm = 5 x O.D. > 12 mm = 6 x O.D.	
Radiation resistance:	8 x 10 ⁷ cJ/kg	
Temperature:	UL-AWM: up to +105°C -25°C	(UL) / c(UL) / CSA-AWM: up to +90°C
<i>static:</i>		
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4 and CSA FT1, FT2	
Oil resistance I:	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	

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 18 AWG				
02841803	3	0.303	7.7	56
02841804	4	0.327	8.3	67
02841805	5	0.354	9.0	79
02841807	7	0.386	9.8	98
02841809	9	0.469	11.9	130
02841812	12	0.492	12.5	153
02841816	16	0.575	14.6	208
02841818	18	0.602	15.3	224
02841819	19	0.602	15.3	237
02841825	25	0.713	18.1	302
02841827	27	0.713	18.1	314
02841837	37	0.791	20.1	417
02841850	50	0.969	24.6	583
▶ 16 AWG				
02841603	3	0.327	8.3	69
02841604	4	0.354	9.0	83
02841605	5	0.386	9.8	99
02841607	7	0.421	10.7	125
02841608	8	0.484	12.3	149
02841609	9	0.516	13.1	167

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 16 AWG				
02841612	12	0.571	14.5	210
02841616	16	0.630	16.0	267
02841618	18	0.661	16.8	295
02841619	19	0.661	16.8	304
02841625	25	0.783	19.9	390
02841627	27	0.783	19.9	414
02841637	37	0.917	23.3	579
02841641	41	0.984	25.0	643
02841650	50	1.067	27.1	757
02841661	61	1.134	28.8	898
▶ 14 AWG				
02841403	3	0.362	9.2	93
02841404	4	0.394	10.0	113
02841405	5	0.429	10.9	136
02841407	7	0.469	11.9	173
02841409	9	0.606	15.4	243
02841412	12	0.634	16.1	292
02841418	18	0.740	18.8	412
02841425	25	0.925	23.5	590

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 12 AWG				
02841203	3	0.413	10.5	130
02841204	4	0.449	11.4	160
02841205	5	0.492	12.5	194
02841207	7	0.567	14.4	265
▶ 10 AWG				
02841003	3	0.488	12.4	188
02841004	4	0.559	14.2	246
02841005	5	0.614	15.6	298
02841007	7	0.669	17.0	385
▶ 8 AWG				
02840804	4	0.713	18.1	401
02840805	5	0.783	19.9	481
▶ 6 AWG				
02840604	4	0.898	22.8	610
02840605	5	0.988	25.1	739
▶ 4 AWG				
02840404	4	1.079	27.4	915
02840405	5	1.193	30.3	1113
▶ 2 AWG				
02840204	4	1.240	31.5	1296
02840205	5	1.374	34.9	1575

Available with blue conductors (P/N series 0286xxxx), red conductors (P/N series 0298xxxx) and yellow conductors (P/N series 0290xxxx).
 Go to www.sabcable.com for more detail and specifications.

Other dimensions and colors are possible on request.

E-mail: info@sabcable.com



Web site: www.sabcable.com

E
15