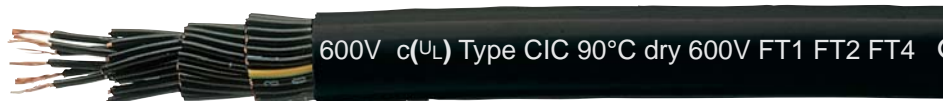


# TRAY CABLES



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



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 CE

TR 600 black is a multi-conductor, 600 V, 90°C, UL recognized, UV and oil resistant flexible tray cable. 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). 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 0281 part 1 and HD 21.1 oil test providing the best oil resistance available for a 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 tools, control systems, assembly lines, CNC machining centers, grinding machines, bottling equipment, data processing equipment and connections between control panels and machines. TR 600 black 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:

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

## Outstanding features:

- Flexible cable for cable tray use even where sunlight resistance and open wiring is required
- NFPA 79 for Industrial Machinery
- New improved with WTTC
- WTTC: UL Subject 2277
- TC: UL Standard 1277
- (UL)(cUL) listed

## Technical data:

<b>Voltage:</b>	<b>UL-AWM / (UL) / c(UL):</b> 600 V <b>(UL) WTTC:</b> 1000 V
<b>Testing voltage:</b>	4000 V
<b>Min. bending radius</b> <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.
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature:</b>	<b>UL-AWM:</b> up to +105°C <b>(UL) / c(UL):</b> up to +90°C
<i>static:</i>	-25°C
<b>Burning characteristics:</b>	(UL) FT4 and c(UL) FT1, FT2, FT4
<b>Oil resistance I:</b>	yes
<b>Sunlight resistance:</b>	yes
<b>Exposed Runs:</b>	yes
<b>Direct Burial:</b>	yes
<b>Machinery Area:</b>	yes
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/25



item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft
<b>➤ 18 AWG</b>				
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
<b>➤ 16 AWG</b>				
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	outer-ø mm	cable weight ≈ lbs/mft
<b>➤ 16 AWG</b>				
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
<b>➤ 14 AWG</b>				
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	outer-ø mm	cable weight ≈ lbs/mft
<b>➤ 12 AWG</b>				
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
<b>➤ 10 AWG</b>				
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
<b>➤ 8 AWG</b>				
02840804	4	0.713	18.1	401
02840805	5	0.783	19.9	481
<b>➤ 6 AWG</b>				
02840604	4	0.898	22.8	610
02840605	5	0.988	25.1	739
<b>➤ 4 AWG</b>				
02840404	4	1.079	27.4	915
02840405	5	1.193	30.3	1113
<b>➤ 2 AWG</b>				
02840204	4	1.240	31.5	1296
02840205	5	1.374	34.9	1575

Other dimensions and colors are possible on request.

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Web site: [www.sabcable.com](http://www.sabcable.com)