



TRAY CABLES



TR 600 blue Type TC, MTW and WTTC

UV and oil resistant 90°C flexible tray cable and machine-tool cable

**NFPA 79
for Industrial
Machinery**



Marking for TR 600 blue 02861637:

SAB BRÖCKSKES · D-VIERSEN · TR 600 blue 16 AWG/37c 02861637 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 blue 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 blue 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 blue 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:	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:	blue 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
- New improved with WTTC
- WTTC: UL Subject 2277
- TC: UL Standard 1277
- (UL)(cUL) listed

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 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 (UL) / c(UL): up to +90°C <i>static:</i> -25°C
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4
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 N/25

item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft
➤ 18 AWG				
02861803	3	0.303	7.7	56
02861804	4	0.327	8.3	67
02861805	5	0.354	9.0	79
02861807	7	0.386	9.8	98
02861809	9	0.469	11.9	130
02861812	12	0.492	12.5	153
02861816	16	0.575	14.6	208
02861818	18	0.602	15.3	224
02861819	19	0.602	15.3	237
02861825	25	0.713	18.1	302
02861827	27	0.713	18.1	314
02861837	37	0.791	20.1	417
02861850	50	0.969	24.6	583
➤ 16 AWG				
02861603	3	0.327	8.3	69
02861604	4	0.354	9.0	83
02861605	5	0.386	9.8	99
02861607	7	0.421	10.7	125
02861608	8	0.484	12.3	149
02861609	9	0.516	13.1	167

item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft
➤ 16 AWG				
02861612	12	0.571	14.5	210
02861616	16	0.630	16.0	267
02861618	18	0.661	16.8	295
02861619	19	0.661	16.8	304
02861625	25	0.783	19.9	390
02861627	27	0.783	19.9	414
02861637	37	0.917	23.3	579
02861641	41	0.984	25.0	643
02861650	50	1.067	27.1	757
02861661	61	1.134	28.8	898
➤ 14 AWG				
02861403	3	0.362	9.2	93
02861404	4	0.394	10.0	113
02861405	5	0.429	10.9	136
02861407	7	0.469	11.9	173
02861409	9	0.606	15.4	243
02861412	12	0.634	16.1	292
02861418	18	0.740	18.8	412
02861425	25	0.925	23.5	590

item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft
➤ 12 AWG				
02861203	3	0.413	10.5	130
02861204	4	0.449	11.4	160
02861205	5	0.492	12.5	194
02861207	7	0.567	14.4	265
➤ 10 AWG				
02861003	3	0.488	12.4	188
02861004	4	0.559	14.2	246
02861005	5	0.614	15.6	298
02861007	7	0.669	17.0	385
➤ 8 AWG				
02860804	4	0.713	18.1	401
02860805	5	0.783	19.9	481
➤ 6 AWG				
02860604	4	0.898	22.8	610
02860605	5	0.988	25.1	739
➤ 4 AWG				
02860404	4	1.079	27.4	915
02860405	5	1.193	30.3	1113
➤ 2 AWG				
02860204	4	1.240	31.5	1296
02860205	5	1.374	34.9	1575

Other dimensions and colors are possible on request.

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Web site: www.sabcable.com