



# TRAY CABLES



## TR 600 Auto red

Type TC,  
MTW and  
WTTC

UV and oil resistant  
90°C flexible tray cable and  
machine-tool cable which  
could be used in cable track



600V c(UL) Type CIC 90°C dry 600V FT1 FT2 FT4 CE

Marking for TR 600 Auto red 32111625:

SAB BRÖCKSKES · D-VIERSEN · TR 600 Auto red 16 AWG/25c 32111625 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/25c 600V AWM Style 21179 600V c(UL) Type CIC 90°C dry 600V FT1 FT2 FT4 CE

TR 600 red is a multi-conductor, 600 V, 90°C, UL approved, 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 red 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 red is permitted to be used in hazardous (classified) locations class 1, 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 3
<b>Insulation:</b>	special formulated PVC/Nylon
<b>Color code:</b>	red conductors with numbers; white-blue ground wire and 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

### Technical data:

<b>Voltage:</b>	UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 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.	
<i>continuous flexing:</i>	12 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 -25°C	<b>(UL) / c(UL):</b> up to +90°C
<i>static:</i>		
<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-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/25	

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
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#### ▶ 18 AWG

32111803	3	0.303	7.7	56
32111804	4	0.327	8.3	67
32111805	5	0.354	9.0	84
32111807	7	0.413	10.5	111
32111809	9	0.469	11.9	141
32111812	12	0.492	12.5	156
32111816	16	0.575	14.6	212
32111818	18	0.602	15.3	235
32111819	19	0.630	16.0	253
32111825	25	0.713	18.1	309

#### ▶ 16 AWG

32111603	3	0.327	8.3	71
32111604	4	0.354	9.0	87
32111605	5	0.386	9.8	101
32111607	7	0.453	11.5	142
32111608	8	0.484	12.3	163
32111609	9	0.516	13.1	181
32111612	12	0.571	14.5	218
32111616	16	0.630	16.0	276
32111618	18	0.661	16.8	304
32111619	19	0.693	17.6	329
32111625	25	0.783	19.9	406

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
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#### ▶ 14 AWG

32111403	3	0.390	9.9	103
32111404	4	0.421	10.7	124
32111405	5	0.461	11.7	155
32111407	7	0.571	14.5	224
32111409	9	0.650	16.5	290
32111412	12	0.685	17.4	322
32111418	18	0.799	20.3	464
32111425	25	0.996	25.3	649

#### ▶ 12 AWG

32111203	3	0.425	10.8	140
32111204	4	0.465	11.8	173
32111205	5	0.539	13.7	220
32111207	7	0.630	16.0	288

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
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#### ▶ 10 AWG

32111003	3	0.524	13.3	199
32111004	4	0.571	14.5	246
32111005	5	0.626	15.9	302
32111007	7	0.736	18.7	392

#### ▶ 8 AWG

32110804	4	0.736	18.7	429
32110805	5	0.811	20.6	530

#### ▶ 6 AWG

32110604	4	0.898	22.8	616
32110605	5	0.988	25.1	737

#### ▶ 4 AWG

32110404	4	1.098	27.9	972
32110405	5	1.217	30.9	1116

#### ▶ 2 AWG

32110204	4	1.268	32.2	1308
32110205	5	1.406	35.7	1592

Other dimensions and colors are possible on request.

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