

TRAY CABLES



TR 600 S

**Type TC-ER, MTW, WTTTC
and CSA Approved
Cable**

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

TC-ER 90C DRY 75C WET 600V SUN RES DIR BUR



SAB NORTH AMERICA TR 600 S 93331612 16 AWG 12C (UL) TC-ER 90C DRY 75C WET 600V SUN RES DIR BUR OIL RES I/II OR WTTTC 1000V OR MTW "FLEXING" OR DP-1 OR AWM 2586 CSA CIC-TC PVC/N 90°C DRY 75°C WET 600V -25°C SR FT4 OR AWM I/II A/B 90C 1000V FT4 RoHS CE

TR 600 S is a multi-conductor, UL & CSA approved flexible tray cable. It is rated UL TC-ER, MTW, AWM and CSA CIC/TC for 600 V, 90°C and UL WTTTC and CSA AWM 1000V. TR 600 S is UV, oil resistant (Oil Res I & II) and is submersible pump rated (3-7 cond.). This cable can be used without conduit (exposed runs). The reduced outer diameter and improved flexibility permits easy handling and faster installation. TR 600 S 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 S is permitted to be used in hazardous (classified) locations Class I, Division 2 per NEC Article 501.4 (B) and is UL Type TC in acc. to UL standard 1277 and NEC Article 336 (392, 501). Additional uses include wind turbine power and control cable intended to be installed in cable trays or raceways within a wind turbine generator and NFPA 79 Machine areas.

Construction:

| | |
|-------------------------|--|
| Conductor: | bare copper strands Class K (30 AWG multiple strands) |
| 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 oil resistant pressure extruded PVC |
| Jacket color: | black |

Outstanding features:

- ▶ Flexible stranding for easy installation
- ▶ Oil resistant meeting UL Oil Res I and II
- ▶ NFPA 79 for Industrial Machinery
- ▶ UL TC-ER (exposed run)
- ▶ CSA approved for TC
- ▶ Submersible pump (14 AWG ≥, 3 thru 7 cond.)
- ▶ WTTTC: Wind Turbine Tray

Technical data:

| | | |
|---------------------------------------|---|-------------------------|
| Voltage: | (UL) / UL-AWM / CSA: 600 V (UL) WTTTC/ CSA AWM: 1000 V | |
| Testing voltage: | 2000 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. | |
| Temperature: | (UL) / CSA: up to +90°C -40°C | UL-AWM: up to +105°C |
| <i>static:</i> | | |
| Burning characteristics: | (UL) FT4 and CSA FT1, FT2, FT4 | |
| Oil resistance I + II: | yes | |
| Sunlight resistance: | yes | |
| Exposed Runs: | yes | |
| Cold bend test: | -40°C | |
| 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 | mm | cable weight ≈ lbs/mf | item no. | no. of conductors incl. ground | nominal outer - ø inch | mm | cable weight ≈ lbs/mf | item no. | no. of conductors incl. ground | nominal outer - ø inch | mm | cable weight ≈ lbs/mf |
|-----------------|--------------------------------|------------------------|------|-----------------------|-----------------|--------------------------------|------------------------|------|-----------------------|-----------------|--------------------------------|------------------------|------|-----------------------|
| ▶ 18 AWG | | | | | ▶ 16 AWG | | | | | ▶ 10 AWG | | | | |
| 93331802* | 2 | 0.286 | 7.3 | 45 | 93331619 | 19 | 0.646 | 16.4 | 310 | 93331003 | 3 | 0.487 | 12.4 | 179 |
| 93331803 | 3 | 0.300 | 7.6 | 55 | 93331625 | 25 | 0.746 | 18.9 | 395 | 93331004 | 4 | 0.568 | 14.4 | 248 |
| 93331804 | 4 | 0.324 | 8.2 | 67 | 93331634 | 34 | 0.884 | 22.5 | 544 | 93331005 | 5 | 0.618 | 15.7 | 298 |
| 93331805 | 5 | 0.349 | 8.9 | 79 | 93331641 | 41 | 0.945 | 24.0 | 654 | 93331007 | 7 | 0.674 | 17.1 | 403 |
| 93331807 | 7 | 0.376 | 9.6 | 100 | 93331650 | 50 | 1.025 | 26.0 | 756 | ▶ 8 AWG | | | | |
| 93331809 | 9 | 0.432 | 11.0 | 125 | ▶ 14 AWG | | | | | 93330803 | 3 | 0.662 | 16.8 | 309 |
| 93331812 | 12 | 0.480 | 12.2 | 157 | 93331402* | 2 | 0.346 | 8.8 | 65 | 93330804 | 4 | 0.728 | 18.5 | 388 |
| 93331818 | 18 | 0.596 | 15.1 | 244 | 93331403 | 3 | 0.364 | 9.2 | 88 | 93330805 | 5 | 0.826 | 21.0 | 465 |
| 93331825 | 25 | 0.686 | 17.4 | 319 | 93331404 | 4 | 0.396 | 10.1 | 112 | ▶ 6 AWG | | | | |
| 93331850 | 50 | 0.940 | 23.9 | 622 | 93331405 | 5 | 0.430 | 10.9 | 130 | 93330603 | 3 | 0.765 | 19.4 | 443 |
| ▶ 16 AWG | | | | | 93331407 | 7 | 0.472 | 12.0 | 169 | 93330604 | 4 | 0.879 | 22.3 | 580 |
| 93331602* | 2 | 0.306 | 7.8 | 52 | 93331409 | 9 | 0.578 | 14.7 | 236 | 93330605 | 5 | 0.954 | 24.2 | 717 |
| 93331603 | 3 | 0.321 | 8.2 | 70 | 93331412 | 12 | 0.644 | 16.4 | 297 | ▶ 4 AWG | | | | |
| 93331604 | 4 | 0.348 | 8.8 | 81 | 93331418 | 18 | 0.744 | 18.9 | 417 | 93330403 | 3 | 0.966 | 24.5 | 696 |
| 93331605 | 5 | 0.376 | 9.6 | 96 | 93331425 | 25 | 0.904 | 23.0 | 596 | 93330404 | 4 | 1.061 | 26.9 | 845 |
| 93331607 | 7 | 0.412 | 10.5 | 126 | ▶ 12 AWG | | | | | 93330405 | 5 | 1.179 | 29.9 | 1035 |
| 93331608 | 8 | 0.440 | 11.2 | 137 | 93331202* | 2 | 0.385 | 9.8 | 99 | ▶ 2 AWG | | | | |
| 93331609 | 9 | 0.473 | 12.0 | 152 | 93331203 | 3 | 0.403 | 10.2 | 120 | 93330203 | 3 | 1.114 | 28.3 | 977 |
| 93331612 | 12 | 0.527 | 13.4 | 196 | 93331204 | 4 | 0.440 | 11.2 | 150 | 93330204 | 4 | 1.160 | 29.5 | 1215 |
| 93331616 | 16 | 0.613 | 15.6 | 273 | 93331205 | 5 | 0.479 | 12.2 | 189 | 93330205 | 5 | 1.363 | 34.6 | 1575 |
| 93331618 | 18 | 0.646 | 16.4 | 300 | 93331207 | 7 | 0.526 | 13.4 | 240 | | | | | |

Other dimensions and colors are possible on request.
*2 conductor cables are rated UL TC only.

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Web site: www.sabcable.com