



TRAY CABLES



TR 600 T black

Type TC, MTW, WTTTC and Submersible Pump Cable

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



Marking for TR 600 T black 92221850: SAB - TR 600 T black 92221850 E135319 (UL) Type TC-ER 50C 18 AWG PVC/Nylon 75C Wet or 90C Dry Sun Res Oli Res I + II Dir Bur 600V or MTW Flexing or DP-1 or WTTTC 1000V Class I Div II 90C Dry -40C or Submersible Pump Cable or c(UL) CIC FT4 Outdoor AWM II A/B 90C 600V ROHS CE

TR 600 T black 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 T 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 T 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:

| | |
|-------------------------|--|
| 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 oil & tear resistant pressure extruded copolymer |
| 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 WTTTC
- WTTTC: UL Subject 2277
- TC: UL Standard 1277
- Submersible pump rated

Technical data:

| | |
|--|---|
| Voltage: | UL-AWM / (UL) / c(UL): 600 V (UL) WTTTC: 1000 V |
| Testing voltage: | 4000 V |
| Min. bending radius fixed installation: | < 12 mm = 3 x O.D. > 12 mm = 4 x O.D. |
| free movement: | < 12 mm = 5 x O.D. > 12 mm = 6 x O.D. |
| Temperature: | UL-AWM: up to +105°C static: -40°C (UL) / c(UL): up to +90°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 |

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| item no. | no. of conductors incl. ground | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈ lbs/mft | item no. | no. of conductors incl. ground | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈ lbs/mft | item no. | no. of conductors incl. ground | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈ lbs/mft | | | | | |
|-----------------|--------------------------------|----------------------|--------------------|------------------------|-----------------|--------------------------------|----------------------|--------------------|------------------------|-----------------|--------------------------------|----------------------|--------------------|------------------------|----------------|---|-------|------|------|
| ➤ 18 AWG | | | | | ➤ 16 AWG | | | | | ➤ 12 AWG | | | | | | | | | |
| 92221803 | 3 | 0.284 | 7.2 | 47 | 92221612 | 12 | 0.508 | 12.9 | 193 | 92221204 | 4 | 0.429 | 10.9 | 143 | | | | | |
| 92221804 | 4 | 0.306 | 7.8 | 57 | 92221616 | 16 | 0.567 | 14.4 | 246 | 92221205 | 5 | 0.450 | 11.4 | 170 | | | | | |
| 92221805 | 5 | 0.318 | 8.1 | 66 | 92221618 | 18 | 0.594 | 15.1 | 272 | 92221207 | 7 | 0.508 | 12.9 | 228 | | | | | |
| 92221807 | 7 | 0.355 | 9.0 | 85 | 92221625 | 25 | 0.676 | 16.9 | 360 | ➤ 10 AWG | | | | | | | | | |
| 92221809 | 9 | 0.393 | 10.0 | 104 | 92221641 | 41 | 0.869 | 22.1 | 594 | 92221004 | 4 | 0.480 | 12.2 | 205 | | | | | |
| 92221812 | 12 | 0.438 | 11.1 | 131 | 92221650 | 50 | 0.942 | 23.9 | 707 | 92221005 | 5 | 0.502 | 12.8 | 236 | | | | | |
| 92221818 | 18 | 0.545 | 13.8 | 201 | ➤ 14 AWG | | | | | 92221007 | 7 | 0.630 | 16.0 | 353 | | | | | |
| 92221825 | 25 | 0.619 | 15.7 | 264 | 92221403 | 3 | 0.341 | 8.6 | 82 | ➤ 8 AWG | | | | | | | | | |
| 92221850 | 50 | 0.861 | 21.9 | 515 | 92221404 | 4 | 0.369 | 9.4 | 102 | 92220804 | 4 | 0.704 | 17.9 | 355 | | | | | |
| ➤ 16 AWG | | | | | 92221405 | 5 | 0.385 | 9.8 | 128 | 92220805 | 5 | 0.739 | 18.8 | 426 | | | | | |
| 92221603 | 3 | 0.306 | 7.8 | 60 | 92221407 | 7 | 0.433 | 11.0 | 159 | ➤ 6 AWG | | | | | | | | | |
| 92221604 | 4 | 0.330 | 8.4 | 74 | 92221409 | 9 | 0.483 | 12.3 | 199 | 92220603 | 3 | 0.742 | 18.9 | 389 | | | | | |
| 92221605 | 5 | 0.344 | 8.7 | 86 | 92221412 | 12 | 0.572 | 14.5 | 274 | 92220604 | 4 | 0.812 | 20.6 | 498 | | | | | |
| 92221607 | 7 | 0.385 | 9.8 | 113 | 92221418 | 18 | 0.672 | 17.1 | 389 | 92220605 | 5 | 0.855 | 21.7 | 602 | | | | | |
| 92221608 | 8 | 0.418 | 10.6 | 127 | 92221425 | 25 | 0.808 | 20.5 | 555 | ➤ 4 AWG | | | | | | | | | |
| 92221609 | 9 | 0.428 | 10.9 | 139 | | | | | | 92220403 | 3 | 0.933 | 23.7 | 616 | | | | | |
| | | | | | | | | | | | | | | | 92220404 | 4 | 1.022 | 25.9 | 788 |
| | | | | | | | | | | | | | | | ➤ 2 AWG | | | | |
| | | | | | | | | | | | | | | | 92220203 | 3 | 1.082 | 27.5 | 881 |
| | | | | | | | | | | | | | | | 92220204 | 4 | 1.189 | 30.2 | 1137 |

Other dimensions and colors are possible on request.

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