

# Tray & VFD Cables

## TR 600 S CY

UV and oil resistant 90°C shielded flexible tray cable  
Type TC-ER, MTW, WTTC, and CSA approved



SR FT4 OR AWM I/II A/B 90C 1000V FT4 RoHS CE



Marking for TR 600 S CY 93341604:

SAB NORTH AMERICA TR 600 S CY 93341604 16 AWG/ 4C (UL) TC-ER-JP 90C DRY/WET 600V SUN RES DIR BUR OIL RES I/II OR WTTC 1000V OR

MTW "FLEXING" OR DP-1 OR AWM 2586 105°C 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

### Construction:

|                         |                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------|
| <b>Conductor:</b>       | bare copper strands class K (30 AWG multiple strands)                                  |
| <b>Insulation:</b>      | special formulated PVC/Nylon                                                           |
| <b>Color code:</b>      | black conductors with consecutive white numbers; green/yellow ground from 3 conductors |
| <b>Stranding:</b>       | in layers                                                                              |
| <b>Wrapping:</b>        | fleece tape                                                                            |
| <b>Shielding:</b>       | tinned copper braiding (85% coverage)                                                  |
| <b>Jacket material:</b> | special oil resistant pressure extruded PVC                                            |
| <b>Jacket color:</b>    | black (RAL 9005)                                                                       |

### Technical data:

|                                                                                    |                                                                        |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| <b>Voltage:</b>                                                                    | <b>UL-AWM / (UL) / CSA:</b> 600 V<br><b>(UL) WTTC:</b> 1000 V          |
| <b>Testing voltage:</b>                                                            | 2000 V                                                                 |
| <b>Min. bending radius:</b><br><i>fixed installation:</i><br><i>free movement:</i> | 6 x O.D.<br>8 x O.D.                                                   |
| <b>Temperature range:</b><br><i>static:</i>                                        | <b>UL -AWM</b> up to +105°C<br>-40°C<br><b>(UL) / CSA:</b> up to +90°C |
| <b>Burning characteristics:</b>                                                    | (UL) FT4 and CSA FT1, FT2, FT4                                         |
| <b>Oil resistance I &amp; II:</b>                                                  | yes                                                                    |
| <b>Sunlight resistance:</b>                                                        | yes                                                                    |
| <b>Exposed runs:</b>                                                               | yes                                                                    |
| <b>Cold bend test:</b>                                                             | -40°C                                                                  |
| <b>Direct burial:</b>                                                              | yes                                                                    |
| <b>Machinery area:</b>                                                             | yes                                                                    |
| <b>Approvals:</b>                                                                  | UL TC-ER-JP, UL MTW, UL AWM, UL WTTC, CSA CIC-TC, CSA AWM, CE, RoHS    |
| <b>Absence of harmful substances:</b>                                              | acc. to RoHS directive of the European Union see page O/30             |

### 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.)
- WTTC: Wind Turbine tray cable
- 90°C Wet rated
- UL TC-ER JP (joist pull)\*
- Class 1 Div 2 per NEC Article 501.4 (B)

| item no. | no. of conductors incl. ground | nominal outer-ø inch | mm   | cable weight ≈lbs/mft |
|----------|--------------------------------|----------------------|------|-----------------------|
| ▶ 18 AWG |                                |                      |      |                       |
| 93341803 | 3                              | 0.324                | 8.2  | 71                    |
| 93341804 | 4                              | 0.348                | 8.8  | 85                    |
| 93341805 | 5                              | 0.373                | 9.5  | 95                    |
| 93341807 | 7                              | 0.400                | 10.2 | 120                   |
| 93341809 | 9                              | 0.455                | 11.6 | 149                   |
| 93341812 | 12                             | 0.504                | 12.8 | 185                   |
| 93341818 | 18                             | 0.617                | 15.7 | 270                   |
| 93341825 | 25                             | 0.710                | 18.0 | 365                   |
| ▶ 16 AWG |                                |                      |      |                       |
| 93341603 | 3                              | 0.345                | 8.8  | 83                    |
| 93341604 | 4                              | 0.372                | 9.4  | 100                   |
| 93341605 | 5                              | 0.400                | 10.2 | 116                   |
| 93341607 | 7                              | 0.430                | 10.9 | 145                   |
| 93341609 | 9                              | 0.492                | 12.5 | 187                   |
| 93341612 | 12                             | 0.579                | 14.7 | 245                   |
| 93341618 | 18                             | 0.664                | 16.9 | 335                   |
| 93341625 | 25                             | 0.770                | 19.6 | 445                   |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | mm   | cable weight ≈lbs/mft |
|----------|--------------------------------|----------------------|------|-----------------------|
| ▶ 14 AWG |                                |                      |      |                       |
| 93341403 | 3                              | 0.388                | 9.9  | 108                   |
| 93341404 | 4                              | 0.420                | 10.7 | 131                   |
| 93341405 | 5                              | 0.454                | 11.5 | 155                   |
| 93341407 | 7                              | 0.490                | 12.4 | 190                   |
| 93341412 | 12                             | 0.662                | 16.8 | 350                   |
| 93341418 | 18                             | 0.764                | 19.4 | 482                   |
| 93341425 | 25                             | 0.924                | 23.5 | 701                   |
| ▶ 12 AWG |                                |                      |      |                       |
| 93341203 | 3                              | 0.427                | 10.8 | 145                   |
| 93341204 | 4                              | 0.464                | 11.8 | 178                   |
| 93341205 | 5                              | 0.506                | 12.9 | 210                   |
| 93341207 | 7                              | 0.578                | 14.7 | 307                   |
| ▶ 10 AWG |                                |                      |      |                       |
| 93341003 | 3                              | 0.562                | 14.3 | 190                   |
| 93341004 | 4                              | 0.568                | 14.4 | 250                   |
| 93341005 | 5                              | 0.643                | 16.3 | 350                   |
| 93341007 | 7                              | 0.695                | 17.7 | 408                   |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | mm   | cable weight ≈lbs/mft |
|----------|--------------------------------|----------------------|------|-----------------------|
| ▶ 8 AWG  |                                |                      |      |                       |
| 93340804 | 4                              | 0.759                | 19.3 | 447                   |
| ▶ 6 AWG  |                                |                      |      |                       |
| 93340604 | 4                              | 0.915                | 23.2 | 672                   |
| 93340605 | 5                              | 0.936                | 23.8 | 766                   |
| ▶ 4 AWG  |                                |                      |      |                       |
| 93340404 | 4                              | 1.097                | 27.9 | 993                   |
| ▶ 2 AWG  |                                |                      |      |                       |
| 93340204 | 4                              | 1.271                | 32.3 | 1455                  |

Other dimensions and colors are available on request

\* UL TC-ER-JP (joist pull) added Sept. 1, 2021