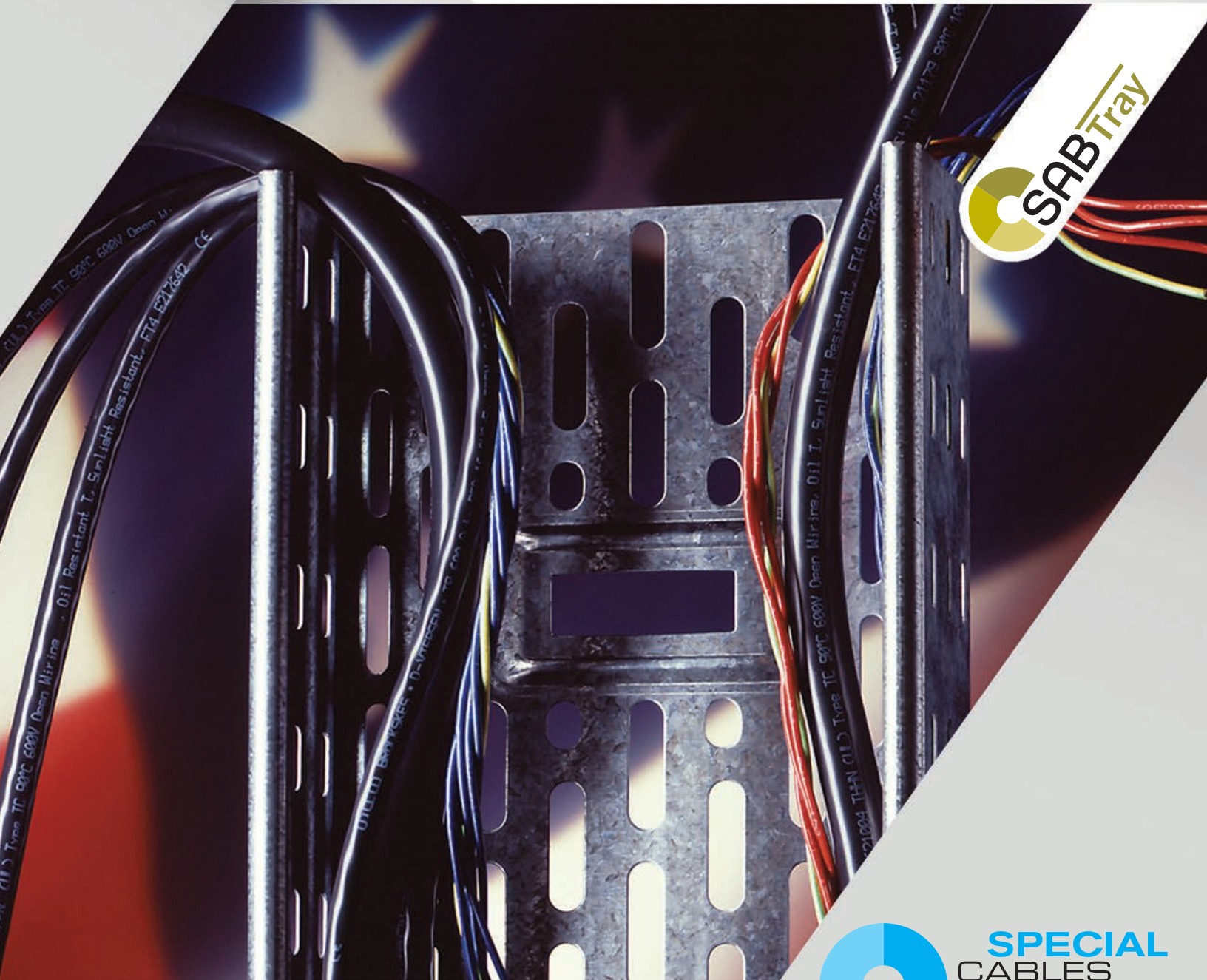
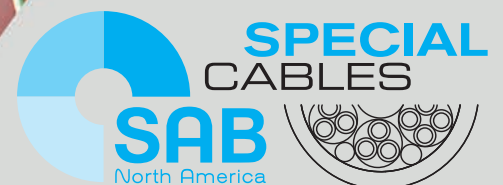


TRAY CABLES

FOR INDUSTRIAL APPLICATIONS



www.sabcable.com
866-722-2974 ■ info@sabcable.com



Tray Cables for Industrial Applications

SAB North America

SAB North America is a focused supplier for the automation, aerospace, medical, high temperature, and robotics industries, providing cable solutions that meet, exceed, and set new standards in the flexible cable market. In addition to flexible cable products, we offer an extensive inventory of high-quality cable accessories including cord grips, grounding glands and other accessories that complement our flexible control and automation cables.

Whatever the need may be, look to SAB North America for Special Cables that can, for example, help minimize maintenance costs and increase productivity, reduce downtime, and solve specific problems. Here is a small sample of some of the challenges that Special Cables from SAB North America can help address:

- Hybrid designs for multiple functions
- Harsh environments
- Difficult applications
- Industry-specific requirements.



SAB North America offers a well-stocked line of UL and CSA-listed tray cables for use in control systems, machinery, conveyors, control panels, assembly and production lines and processing equipment. Each carries a Class 1 Division 2 explosion classification and a WTTTC rating for wind turbines. The lineup features flexible versions as well as round cables that allow installers to pull more cables at a time, thereby avoiding a stiff, complicated setup.

Whether you're a valued distribution partner, an automation house, an integrator, or a contractor to the manufacturer, rest assured that our cables are reliable to maximize production efficiencies. SAB brings world class performance & 75 years of ingenuity to the table.












































SAB Service Advantage...We make it Easy

- Engineering & technical assistance
- Cut to length with no cut charges
- Prepaid freight within US for orders over \$2,500
- Specialty cable designs (1500 ft minimum)
- No minimum on orders from stock
- Free drop shipments (no surcharges)
- 24-hour shipments from stock
- Cord Grips for securing and grounding cables

Tray Cables for Industrial Applications

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Tray Cables for Industrial Applications

Applications



■ Application of flexible power and control tray cable, Type TC, MTW and WTTC

These special multi-conductor cables shall be permitted for use in power, lighting, control and signal circuits in accordance with the National Electrical Code (NEC), NFPA 70 Article 336. They are also approved for use in cable trays, in raceways and in outdoor locations supported by a messenger wire in accordance with Underwriters Laboratories Inc. (UL) Standard of Safety UL 1277 and for class I division 2 circuits as permitted in NEC article 501.10 (B) and for class II division 2 circuits as permitted in NEC article 502.10 (B) and in industrial establishments where the conditions of maintenance and supervision ensure that only qualified persons service the installation, and where the cables are continuously supported and protected against physical damage using mechanical protection, such as struts, angles or channels. These tray cables comply with the crush and impact requirements of Type TC and are identified for such use with the ER marking on the jacket.

Tray cables are for use as exposed runs between a cable tray and the utilization device where the cables are continuously supported and protected against physical damage and are secured at intervals not exceeding 1.8 m (6 feet). Grounding for the utilization equipment shall be provided by an equipment grounding conductor within the cables. These tray cables shall also be permitted to be used in wet locations and are resistant to moisture and corrosive agents. Cables that are surface marked "oil resistant I" have a jacket that is for exposure to mineral oil at temperature not in excess of 60°C (140°F). Marked with "oil resistant II" they have a jacket that is for exposure to mineral oil at temperatures not in excess of 75°C (167°C). The cables are flame retardant and self-extinguishing and sunlight resistant depending on the jacket color. The cables listed as UR AWM or UL MTW can be applied in the NFPA 79 machinery area. These cables are specified for use acc. to National Electrical Code (NFPA 70) and acc. to the National Fire Protection Association Electrical Standard for industrial machinery (NFPA 79). Wind turbine power and control cables are intended to be installed in cable trays or raceways within a wind turbine generator.

Exemplary applications:

| | |
|-------------|-----------------------|
| DC 105 | Type PLTC, ITC, & CMG |
| DC 105 C | Type PLTC, ITC, & CMG |
| DC 105 C TP | Type PLTC, ITC, & CMG |

Recommended for use with computers, data transmission, office equipment, process control equipment and instrumentation, and all other signal and data communications

Exemplary applications:

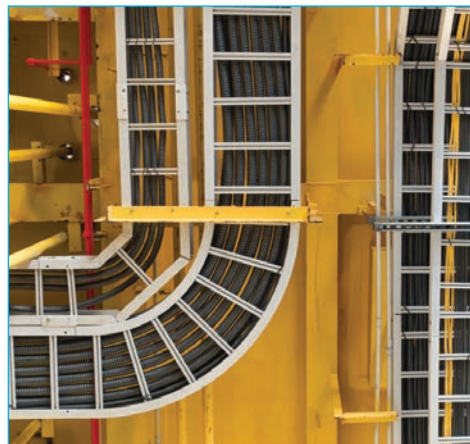
| | |
|-------------|------------------------|
| TR 600 S | Type TC-ER, MTW & WTTC |
| TR 600 S CY | Type TC-ER, MTW & WTTC |
| TR 850 S | Type TC-ER & STOOW |

Recommended applications are machine tools, control systems assembly lines, CNC machining, grinding machines, bottling equipment, data processing equipment and connections between control panels and machines

Exemplary applications:

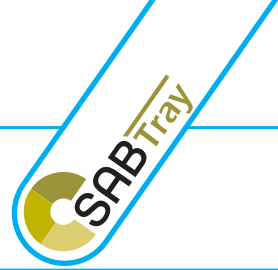
| | |
|------------------|------------|
| TRAY HD TPE | Type TC-ER |
| TR 600 HD | Type TC-ER |
| TR 600 C HD | Type TC-ER |
| TR 600 Auto HD | Type TC-ER |
| TR 600 Auto C HD | Type TC-ER |

In hazardous (classified) areas Class I, Division 2 per NEC Article 501.4 (B), UL Type TC is in accordance with UL standard 1277 and NEC Article 336



Tray Cables for Industrial Applications

Selection Chart



| | | Cable Type | | | | | | | | | | | | | | | | |
|---------------------------|-----------------------------------|------------|----------|-------------|----------|---------------|-------------|------------------|----------|-------------|-----------|-------------|----------------|------------------|--|--|--|--|
| | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | | | | |
| | | DC 105 | DC 105 C | DC 105 C TP | TR 600 S | TR 600 S Gray | TR 600 S CY | TR 600 S CY Gray | TR 850 S | TRAY HD TPE | TR 600 HD | TR 600 C HD | TR 600 Auto HD | TR 600 Auto C HD | | | | |
| Conductors | Numbered conductors | | | | | | | | | | | | | | | | | |
| | Color code chart 2, 4, and 6 | | | | | | | | | | | | | | | | | |
| | Color code chart 3 | | | | | | | | | | | | | | | | | |
| | Colored | | | | | | | | | | | | | | | | | |
| Insulation | Semi-rigid PVC (26-20 AWG) | | | | | | | | | | | | | | | | | |
| | PVC | | | | | | | | | | | | | | | | | |
| | PVC/Nylon | | | | | | | | | | | | | | | | | |
| Shielding | Tinned Copper Braid | | | | | | | | | | | | | | | | | |
| | Foil & Tinned Copper Braid | | | | | | | | | | | | | | | | | |
| | Inner jacket | | | | | | | | | | | | | | | | | |
| Jacket | Gray jacket | PVC | PVC | PVC | | PVC | | PVC | | TPE | | | | | | | | |
| | Black jacket | | | | PVC | | PVC | | TPE | | | | TPE | TPE | | | | |
| | Orange jacket | | | | | | | | | | TPE | TPE | | | | | | |
| Temperature range static* | +105°C | | | | | | | | | | | | | | | | | |
| | +90°C | | | | | | | | | | | | | | | | | |
| | -25°C | | | | | | | | | | | | | | | | | |
| | -40°C | | | | | | | | | | | | | | | | | |
| Voltage | 300 V | | | | | | | | | | | | | | | | | |
| | 600 V | | | | | | | | | | | | | | | | | |
| | 1000 V CSA AWM | | | | | | | | | | | | | | | | | |
| | 1000 V (UL) WTTC | | | | | | | | | | | | | | | | | |
| | Test voltage: 2000 V | | | | | | | | | | | | | | | | | |
| Characteristics | Burning characteristics: FT1, FT4 | | | | | | | | | | | | | | | | | |
| | Cold bend test -25°C | | | | | | | | | | | | | | | | | |
| | Cold bend test -40°C | | | | | | | | | | | | | | | | | |
| | Oil resistance | | | | | | | | | | | | | | | | | |
| | Oil resistance I | | | | | | | | | | | | | | | | | |
| | Oil resistance I & II | | | | | | | | | | | | | | | | | |
| | Sunlight resistance | | | | | | | | | | | | | | | | | |
| | Exposed runs | 1 | 1 | 1 | | | | | | | | | | | | | | |
| | Direct burial | | | | | | | | | | | | | | | | | |
| | Machinery area | | | | | | | | | | | | | | | | | |
| | Continuous Flex | | | | | | | | | | | | | | | | | |

from 18-16 AWG only
 to

*The temperature range for flexible application is mentioned on the corresponding catalog page

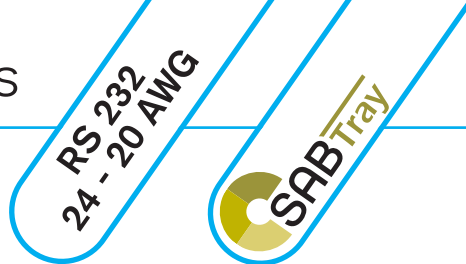


Tray Cables for Industrial Applications

DC 105

Semi-rigid PVC data cable

Type PLTC, ITC, and CMG



(DC 105) - CSA TYPE CMG or AWM I/II A/B 105°C 300V FT4



Marking for DC 105 DC3332203:

SAB North America P/N DC3332203 22AWG/3c (UL) TYPE PLTC or ITC or CMG 105°C (DC 105) - CSA TYPE CMG or AWM I/II A/B 105°C 300V FT4 RoHS CE

Construction:

| | |
|-------------------------|---|
| Conductor: | tinned copper strands |
| Insulation: | semi-rigid PVC |
| 26 - 20 AWG: | PVC/nylon |
| 18 - 16 AWG: | |
| Color code: | |
| 26 - 24 AWG: | color code, chart 2 |
| 22 AWG: | color code, chart 4 |
| 20 - 16 AWG: | color code chart 6 |
| Stranding: | twisted together in layers with non-wicking fillers |
| Jacket material: | PVC |
| Jacket color: | grayish tan (RAL 7032) |

Technical data:

| | |
|---------------------------------------|---|
| Nominal voltage: | 300 V |
| Testing voltage: | 2000 V |
| Min. bending radius: | |
| fixed installation: | 4 x O.D. |
| Temperature range: | -25/+105°C |
| Approvals: | UL: CMG (26-16 AWG) PLTC & ITC (22 - 20 AWG) PLTC-ER & ITC-ER (18 -16 AWG) CSA: CMG/FT4 AWM I/II A/B CE, RoHS |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page O/30 |

Color Code Chart 2:

| no. | Conductor color | no. | Conductor color |
|-----|-----------------|-----|-------------------|
| 1 | black | 14 | green/white |
| 2 | white | 15 | blue/white |
| 3 | red | 16 | black/red |
| 4 | green | 17 | white/red |
| 5 | orange | 18 | orange/red |
| 6 | blue | 19 | blue/red |
| 7 | white/black | 20 | red/green |
| 8 | red/black | 21 | orange/green |
| 9 | green/black | 22 | black/white/red |
| 10 | orange/black | 23 | white/black/red |
| 11 | blue/black | 24 | red/black/white |
| 12 | black/white | 25 | green/black/white |
| 13 | red/white | | |

Color Code Chart 4:

| no. | Conductor color | no. | Conductor color |
|-----|-----------------|-----|--------------------|
| 1 | black | 14 | white/orange |
| 2 | brown | 15 | white/yellow |
| 3 | red | 16 | white/green |
| 4 | orange | 17 | white/blue |
| 5 | yellow | 18 | white/violet |
| 6 | green | 19 | white/gray |
| 7 | blue | 20 | white/black/brown |
| 8 | violet | 21 | white/black/red |
| 9 | gray | 22 | white/black/orange |
| 10 | white | 23 | white/black/yellow |
| 11 | white/black | 24 | white/black/green |
| 12 | white/brown | 25 | white/black/blue |
| 13 | white/red | | |

Color Code Chart 6:

| no. | Conductor color | no. | Conductor color |
|-----|-----------------|-----|-----------------|
| 1 | black | 14 | red/yellow |
| 2 | red | 15 | red/black |
| 3 | white | 16 | white/black |
| 4 | green | 17 | white/red |
| 5 | orange | 18 | white/green |
| 6 | blue | 19 | white/yellow |
| 7 | brown | 20 | white/blue |
| 8 | yellow | 21 | white/brown |
| 9 | violet | 22 | white/orange |
| 10 | gray | 23 | white/gray |
| 11 | pink | 24 | white/violet |
| 12 | tan | 25 | white/black/red |
| 13 | red/green | | |

| item no. | no. of conductors | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|------------------------|-------------------|----------------------|------|-----------------------|
| ▶ 26 AWG (7/34) | | | | |
| DC3222603 | 3 | 0.156 | 4.0 | 18 |
| DC3222604 | 4 | 0.166 | 4.2 | 20 |
| DC3222606 | 6 | 0.189 | 4.8 | 25 |
| DC3222607 | 7 | 0.192 | 4.9 | 26 |
| DC3222608 | 8 | 0.204 | 5.2 | 28 |
| DC3222610 | 10 | 0.230 | 5.8 | 36 |
| DC3222615 | 15 | 0.261 | 6.6 | 48 |
| DC3222620 | 20 | 0.295 | 7.5 | 58 |
| DC3222625 | 25 | 0.323 | 8.2 | 70 |
| ▶ 24 AWG (7/32) | | | | |
| DC3222402 | 2 | 0.160 | 4.1 | 20 |
| DC3222403 | 3 | 0.167 | 4.2 | 23 |
| DC3222404 | 4 | 0.182 | 4.6 | 24 |
| DC3222405 | 5 | 0.191 | 4.9 | 27 |
| DC3222406 | 6 | 0.204 | 5.2 | 30 |
| DC3222407 | 7 | 0.207 | 5.3 | 31 |
| DC3222408 | 8 | 0.220 | 5.6 | 35 |
| DC3222410 | 10 | 0.249 | 6.3 | 43 |
| DC3222412 | 12 | 0.256 | 6.5 | 49 |
| DC3222415 | 15 | 0.283 | 7.2 | 59 |
| DC3222418 | 18 | 0.303 | 7.7 | 65 |
| DC3222420 | 20 | 0.311 | 7.9 | 70 |
| DC3222425 | 25 | 0.343 | 8.7 | 86 |
| ▶ 22 AWG (7/30) | | | | |
| DC3332202 | 2 | 0.178 | 4.5 | 22 |
| DC3332203 | 3 | 0.190 | 4.8 | 25 |
| DC3332204 | 4 | 0.202 | 5.1 | 29 |
| DC3332205 | 5 | 0.213 | 5.4 | 34 |
| DC3332206 | 6 | 0.228 | 5.8 | 40 |
| DC3332207 | 7 | 0.231 | 5.9 | 41 |
| DC3332208 | 8 | 0.244 | 6.2 | 46 |
| DC3332209 | 9 | 0.261 | 6.6 | 53 |
| DC3332210 | 10 | 0.289 | 7.3 | 60 |
| DC3332212 | 12 | 0.297 | 7.5 | 67 |
| DC3332215 | 15 | 0.317 | 8.1 | 79 |
| DC3332218 | 18 | 0.339 | 8.6 | 87 |
| DC3332220 | 20 | 0.348 | 8.8 | 94 |
| DC3332225 | 25 | 0.385 | 9.8 | 117 |
| DC3332230 | 30 | 0.430 | 10.9 | 143 |
| DC3332240 | 40 | 0.475 | 12.1 | 184 |
| DC3332250 | 50 | 0.517 | 13.1 | 221 |

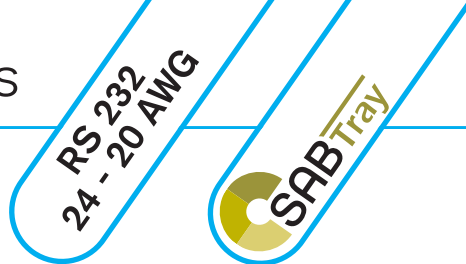
| item no. | no. of conductors | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|---------------------------|-------------------|----------------------|------|-----------------------|
| ▶ 20 AWG (≈ 19/32) | | | | |
| DC3332002 | 2 | 0.196 | 5.0 | 29 |
| DC3332003 | 3 | 0.205 | 5.2 | 35 |
| DC3332004 | 4 | 0.220 | 5.6 | 42 |
| DC3332006 | 6 | 0.254 | 6.5 | 55 |
| DC3332007 | 7 | 0.254 | 6.5 | 52 |
| DC3332008 | 8 | 0.275 | 7.0 | 62 |
| DC3332009 | 9 | 0.303 | 7.7 | 74 |
| DC3332010 | 10 | 0.325 | 8.3 | 80 |
| DC3332012 | 12 | 0.335 | 8.5 | 92 |
| DC3332015 | 15 | 0.358 | 9.1 | 110 |
| DC3332020 | 20 | 0.415 | 10.5 | 143 |
| DC3332025 | 25 | 0.459 | 11.7 | 184 |
| ▶ 18 AWG (19/30) | | | | |
| DC3331802 | 2 | 0.276 | 7.0 | 45 |
| DC3331803 | 3 | 0.29 | 7.4 | 58 |
| DC3331804 | 4 | 0.313 | 8.0 | 70 |
| DC3331805 | 5 | 0.339 | 8.6 | 78 |
| DC3331806 | 6 | 0.366 | 9.3 | 91 |
| DC3331807 | 7 | 0.367 | 9.3 | 98 |
| DC3331808 | 8 | 0.395 | 10.0 | 110 |
| DC3331809 | 9 | 0.423 | 10.7 | 124 |
| DC3331810 | 10 | 0.457 | 11.6 | 144 |
| DC3331812 | 12 | 0.472 | 12.0 | 164 |
| DC3331815 | 15 | 0.507 | 12.9 | 194 |
| DC3331818 | 18 | 0.579 | 14.7 | 244 |
| DC3331820 | 20 | 0.595 | 15.1 | 263 |
| DC3331825 | 25 | 0.662 | 16.8 | 325 |
| DC3331850 | 50 | 0.904 | 23.0 | 621 |
| ▶ 16 AWG (26/30) | | | | |
| DC3331602 | 2 | 0.296 | 7.5 | 54 |
| DC3331603 | 3 | 0.312 | 7.9 | 68 |
| DC3331604 | 4 | 0.337 | 8.6 | 83 |
| DC3331605 | 5 | 0.366 | 9.3 | 95 |
| DC3331606 | 6 | 0.396 | 10.1 | 109 |
| DC3331607 | 7 | 0.397 | 10.1 | 119 |
| DC3331608 | 8 | 0.428 | 10.9 | 134 |
| DC3331609 | 9 | 0.459 | 11.7 | 160 |
| DC3331610 | 10 | 0.497 | 12.6 | 174 |
| DC3331612 | 12 | 0.513 | 13.0 | 199 |
| DC3331615 | 15 | 0.584 | 14.8 | 261 |
| DC3331618 | 18 | 0.629 | 16.0 | 297 |
| DC3331620 | 20 | 0.647 | 16.4 | 330 |
| DC3331625 | 25 | 0.721 | 18.3 | 400 |

Other dimensions and colors are available on request

Tray Cables for Industrial Applications

DC 105 C

Shielded semi-rigid PVC data cable
Type PLTC, ITC, and CMG



CMG OR AWM I/II A/B 105°C 300V FT4 RoHS CE



Marking for DC 105 C DC3332204S:

SAB North America P/N DC3332204S 22AWG/4c (UL) TYPE PLTC OR ITC OR CMG SHIELDED 105°C (DC 105 C) CSA TYPE CMG OR AWM I/II A/B 105°C 300V FT4 RoHS CE

Construction:

| | |
|-------------------------|--|
| Conductor: | tinned copper strands |
| Insulation: | semi-rigid PVC |
| 26 - 20 AWG: | PVC/nylon |
| 18 - 16 AWG: | |
| Color code: | |
| 26 - 24 AWG: | color code, chart 2 |
| 22 AWG: | color code, chart 4 |
| 20 - 16 AWG: | color code chart 6 |
| Stranding: | twisted together in layers with non-wicking fillers |
| Shielding: | double shielding, alu-foil, tinned copper braiding and tinned drain wire |
| Jacket material: | PVC |
| Jacket color: | grayish tan (RAL 7032) |

Technical data:

| | |
|---------------------------------------|--|
| Nominal voltage: | 300 V |
| Testing voltage: | 2000 V |
| Min. bending radius: | 6 x O.D. |
| <i>fixed installation:</i> | |
| Temperature range: | -25/+105°C |
| Approvals: | UL: CMG (26 - 16 AWG) PLTC & ITC (22 - 20 AWG) PLTC-ER & ITC-ER (18 - 16 AWG) CSA: CMG/FT4 AWM I/II A/B CE, RoHS |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page O/30 |

Color Code Chart 2:

| no. | Conductor color | no. | Conductor color |
|-----|-----------------|-----|-------------------|
| 1 | black | 14 | green/white |
| 2 | white | 15 | blue/white |
| 3 | red | 16 | black/red |
| 4 | green | 17 | white/red |
| 5 | orange | 18 | orange/red |
| 6 | blue | 19 | blue/red |
| 7 | white/black | 20 | red/green |
| 8 | red/black | 21 | orange/green |
| 9 | green/black | 22 | black/white/red |
| 10 | orange/black | 23 | white/black/red |
| 11 | blue/black | 24 | red/black/white |
| 12 | black/white | 25 | green/black/white |
| 13 | red/white | | |

Color Code Chart 4:

| no. | Conductor color | no. | Conductor color |
|-----|-----------------|-----|--------------------|
| 1 | black | 14 | white/orange |
| 2 | brown | 15 | white/yellow |
| 3 | red | 16 | white/green |
| 4 | orange | 17 | white/blue |
| 5 | yellow | 18 | white/violet |
| 6 | green | 19 | white/gray |
| 7 | blue | 20 | white/black/brown |
| 8 | violet | 21 | white/black/red |
| 9 | gray | 22 | white/black/orange |
| 10 | white | 23 | white/black/yellow |
| 11 | white/black | 24 | white/black/green |
| 12 | white/brown | 25 | white/black/blue |
| 13 | white/red | | |

Color Code Chart 6:

| no. | Conductor color | no. | Conductor color |
|-----|-----------------|-----|-----------------|
| 1 | black | 14 | red/yellow |
| 2 | red | 15 | red/black |
| 3 | white | 16 | white/black |
| 4 | green | 17 | white/red |
| 5 | orange | 18 | white/green |
| 6 | blue | 19 | white/yellow |
| 7 | brown | 20 | white/blue |
| 8 | yellow | 21 | white/brown |
| 9 | violet | 22 | white/orange |
| 10 | gray | 23 | white/gray |
| 11 | pink | 24 | white/violet |
| 12 | tan | 25 | white/black/red |
| 13 | red/green | | |

| item no. | no. of conductors | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|------------------------|-------------------|----------------------|-----|-----------------------|
| ▶ 26 AWG (7/34) | | | | |
| DC3222602S | 2 | 0.180 | 4.6 | 27 |
| DC3222603S | 3 | 0.186 | 4.7 | 30 |
| DC3222604S | 4 | 0.196 | 5.0 | 32 |
| DC3222605S | 5 | 0.207 | 5.3 | 34 |
| DC3222606S | 6 | 0.219 | 5.6 | 37 |
| DC3222607S | 7 | 0.221 | 5.6 | 39 |
| DC3222608S | 8 | 0.231 | 5.9 | 43 |
| DC3222610S | 10 | 0.258 | 6.6 | 51 |
| DC3222615S | 15 | 0.289 | 7.3 | 66 |
| DC3222618S | 18 | 0.307 | 7.8 | 70 |
| DC3222625S | 25 | 0.343 | 8.7 | 88 |
| ▶ 24 AWG (7/32) | | | | |
| DC3222403S | 3 | 0.197 | 5.0 | 35 |
| DC3222404S | 4 | 0.209 | 5.3 | 36 |
| DC3222405S | 5 | 0.221 | 5.6 | 39 |
| DC3222406S | 6 | 0.234 | 5.9 | 45 |
| DC3222407S | 7 | 0.236 | 6.0 | 46 |
| DC3222408S | 8 | 0.248 | 6.3 | 51 |
| DC3222409S | 9 | 0.261 | 6.6 | 56 |
| DC3222410S | 10 | 0.288 | 7.3 | 62 |
| DC3222412S | 12 | 0.288 | 7.3 | 67 |
| DC3222415S | 15 | 0.312 | 7.9 | 80 |
| DC3222418S | 18 | 0.332 | 8.4 | 86 |
| DC3222420S | 20 | 0.340 | 8.6 | 92 |
| DC3222425S | 25 | 0.372 | 9.4 | 111 |

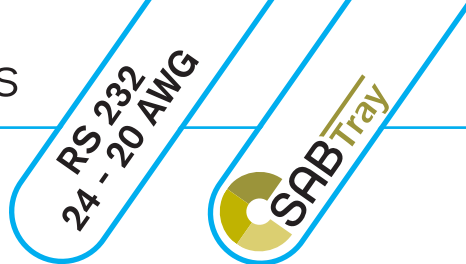
| item no. | no. of conductors | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|---------------------------|-------------------|----------------------|------|-----------------------|
| ▶ 22 AWG (7/30) | | | | |
| DC3332203S | 3 | 0.210 | 5.3 | 40 |
| DC3332204S | 4 | 0.224 | 5.7 | 43 |
| DC3332205S | 5 | 0.237 | 6.0 | 49 |
| DC3332206S | 6 | 0.252 | 6.4 | 54 |
| DC3332207S | 7 | 0.260 | 6.6 | 57 |
| DC3332208S | 8 | 0.267 | 6.8 | 61 |
| DC3332210S | 10 | 0.312 | 7.9 | 77 |
| DC3332212S | 12 | 0.320 | 8.1 | 86 |
| DC3332215S | 15 | 0.339 | 8.6 | 99 |
| DC3332218S | 18 | 0.362 | 9.2 | 110 |
| DC3332220S | 20 | 0.371 | 9.4 | 118 |
| DC3332225S | 25 | 0.433 | 11 | 150 |
| ▶ 20 AWG (≈ 19/32) | | | | |
| DC3332002S | 2 | 0.220 | 5.6 | 42 |
| DC3332003S | 3 | 0.229 | 5.8 | 51 |
| DC3332004S | 4 | 0.244 | 6.2 | 59 |
| DC3332006S | 6 | 0.289 | 7.3 | 73 |
| DC3332008S | 8 | 0.307 | 7.8 | 85 |
| DC3332010S | 10 | 0.348 | 8.8 | 102 |
| DC3332015S | 15 | 0.380 | 9.7 | 135 |
| DC3332020S | 20 | 0.437 | 11.1 | 169 |
| DC3332025S | 25 | 0.481 | 12.2 | 213 |
| ▶ 18 AWG (19/30) | | | | |
| DC3331803S | 3 | 0.314 | 8.0 | 79 |
| DC3331804S | 4 | 0.337 | 8.6 | 92 |
| DC3331806S | 6 | 0.390 | 9.9 | 116 |
| ▶ 16 AWG (26/30) | | | | |
| DC3331603S | 3 | 0.336 | 8.5 | 93 |
| DC3331604S | 4 | 0.361 | 9.2 | 111 |
| DC3331606S | 6 | 0.420 | 10.7 | 139 |

Other dimensions and colors are available on request

Tray Cables for Industrial Applications

DC 105 C TP

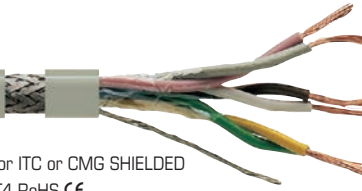
Shielded, semi-rigid, twisted pair, PVC data cable
Type PLTC, ITC, and CMG



AWM I/II A/B 105°C 300V FT4 RoHS CE

Marking for DC 105 C TP DC3332203TP:

SAB North America P/N DC3332203TP 22AWG/3pr (UL) TYPE PLTC or ITC or CMG SHIELDED 105°C (DC 105 CTP) CSA TYPE CMG or AWM I/II A/B 105°C 300V FT4 RoHS CE



Construction:

| | |
|-------------------------|---|
| Conductor: | tinned copper strands |
| Insulation: | |
| 24 - 20 AWG: | semi-rigid PVC |
| 18 - 16 AWG: | PVC/nylon |
| Color code: | color code, chart 3 |
| Stranding: | paired and twisted together in layers with non-wicking fillers |
| Shielding: | double shielding, alu-foil tinned copper braiding and tinned drain wire |
| Jacket material: | PVC |
| Jacket color: | grayish tan (RAL 7032) |

Technical data:

| | |
|---------------------------------------|--|
| Nominal voltage: | 300 V |
| Testing voltage: | 2000 V |
| Min. bending radius: | |
| fixed installation: | 6 x O.D. |
| Temperature range: | -25/+105°C |
| Approvals: | UL: CMG (24 - 16 AWG) PLTC & ITC (22 - 20 AWG) PLTC-ER & ITC-ER (18 - 16 AWG) CSA: CMG/FT4 AWM I/II A/B CE, RoHS |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page O/30 |

Color Code Chart 3:

| Pair no. | color combination |
|----------|--------------------------|
| 1 | black paired with red |
| 2 | black paired with white |
| 3 | black paired with green |
| 4 | black paired with blue |
| 5 | black paired with yellow |
| 6 | black paired with brown |
| 7 | black paired with orange |
| 8 | red paired with white |
| 9 | red paired with green |
| 10 | red paired with blue |
| 11 | red paired with yellow |
| 12 | red paired with brown |
| 13 | red paired with orange |
| 14 | green paired with white |
| 15 | green paired with blue |
| 16 | green paired with yellow |
| 17 | green paired with brown |
| 18 | green paired with orange |
| 19 | white paired with blue |
| 20 | white paired with yellow |
| 21 | white paired with brown |
| 22 | white paired with orange |
| 23 | blue paired with yellow |
| 24 | blue paired with brown |
| 25 | blue paired with orange |

| item no. | no. of pairs | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|------------------------|--------------|----------------------|------|-----------------------|
| ▶ 24 AWG (7/32) | | | | |
| DC3222401TP* | 1 | 0.190 | 4.8 | 31 |
| DC3222402TP | 2 | 0.246 | 6.2 | 44 |
| DC3222403TP | 3 | 0.258 | 6.6 | 51 |
| DC3222404TP | 4 | 0.292 | 7.4 | 57 |
| DC3222405TP | 5 | 0.307 | 7.8 | 65 |
| DC3222406TP | 6 | 0.328 | 8.3 | 73 |
| DC3222408TP | 8 | 0.351 | 8.9 | 85 |
| DC3222409TP | 9 | 0.373 | 9.5 | 97 |
| DC3222415TP | 15 | 0.460 | 11.7 | 151 |
| ▶ 22 AWG (7/30) | | | | |
| DC3332201TP* | 1 | 0.203 | 5.2 | 32 |
| DC3332202TP | 2 | 0.266 | 6.8 | 50 |
| DC3332203TP | 3 | 0.289 | 7.3 | 63 |
| DC3332204TP | 4 | 0.323 | 8.2 | 71 |
| DC3332205TP | 5 | 0.333 | 8.5 | 80 |
| DC3332206TP | 6 | 0.358 | 9.1 | 90 |
| DC3332208TP | 8 | 0.383 | 9.7 | 107 |
| DC3332209TP | 9 | 0.429 | 10.9 | 128 |
| DC3332211TP | 11 | 0.460 | 11.7 | 154 |
| DC3332215TP | 15 | 0.505 | 12.8 | 188 |

| item no. | no. of pairs | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|---------------------------|--------------|----------------------|------|-----------------------|
| ▶ 20 AWG (≈ 19/32) | | | | |
| DC3332001TP | 1 | 0.220 | 5.6 | 42 |
| DC3332002TP | 2 | 0.305 | 7.7 | 67 |
| DC3332003TP | 3 | 0.321 | 8.2 | 80 |
| DC3332004TP | 4 | 0.345 | 8.8 | 95 |
| DC3332006TP | 6 | 0.422 | 10.7 | 129 |
| DC3332009TP | 9 | 0.482 | 12.2 | 180 |
| DC3332015TP | 15 | 0.572 | 14.5 | 254 |
| ▶ 18 AWG (19/30) | | | | |
| DC3331801TP | 1 | 0.300 | 7.6 | 68 |
| DC3331802TP | 2 | 0.415 | 10.5 | 106 |
| DC3331803TP | 3 | 0.439 | 11.2 | 128 |
| DC3331804TP | 4 | 0.476 | 12.1 | 162 |
| DC3331806TP | 6 | 0.595 | 15.1 | 231 |
| DC3331809TP | 9 | 0.686 | 17.4 | 312 |
| DC3331815TP | 15 | 0.823 | 20.9 | 461 |
| ▶ 16 AWG (26/30) | | | | |
| DC3331601TP | 1 | 0.320 | 8.1 | 78 |
| DC3331602TP | 2 | 0.448 | 11.4 | 124 |
| DC3331603TP | 3 | 0.474 | 12.0 | 162 |
| DC3331604TP | 4 | 0.515 | 13.1 | 192 |

*DC3222401TP & DC3332201TP: black paired with white color code



Tray Cables for Industrial Applications



TR 600 S

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



Marking for TR 600 S 93331641:

SAB NORTH AMERICA TR 600 S 93331641 16 AWG/41C (UL) TC-ER 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:

| | |
|-------------------------|--|
| 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 ground from 3 conductors |
| Stranding: | in layers |
| Jacket material: | special oil resistant pressure extruded PVC |
| Jacket color: | black (RAL 9005) |

Technical data:

| | |
|--|---|
| Voltage: | UL-AWM / (UL) / CSA: 600 V (UL) WTTC: 1000 V |
| Testing voltage: | 2500 V |
| Min. bending radius: <i>fixed installation:</i> <i>free movement:</i> | 4 x O.D. 6 x O.D. |
| Temperature range: | UL -AWM (UL) / CSA: up to +105°C up to +90°C <i>static:</i> -40°C |
| 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 |
| Approvals: | UL TC-ER, UL MTW, UL AWM, UL WTTC, CSA CIC-TC, CSA AWM, CE, RoHS |
| Absence of harmful substances: | 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 runs)
- CSA approved for TC
- Submersible pump (14 AWG ≥ 3 thru 7 cond.)
- WTTC: Wind Turbine tray cable
- 90°C Wet rated
- 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 | | | | |
| 93331802* | 2 | 0.286 | 7.3 | 45 |
| 93331803 | 3 | 0.300 | 7.6 | 55 |
| 93331804 | 4 | 0.324 | 8.2 | 67 |
| 93331805 | 5 | 0.349 | 8.9 | 79 |
| 93331807 | 7 | 0.376 | 9.6 | 100 |
| 93331809 | 9 | 0.432 | 11.0 | 125 |
| 93331812 | 12 | 0.480 | 12.2 | 157 |
| 93331818 | 18 | 0.596 | 15.1 | 244 |
| 93331825 | 25 | 0.686 | 17.4 | 319 |
| 93331850 | 50 | 0.940 | 23.9 | 622 |
| ▶ 16 AWG | | | | |
| 93331602* | 2 | 0.306 | 7.8 | 52 |
| 93331603 | 3 | 0.321 | 8.2 | 70 |
| 93331604 | 4 | 0.348 | 8.8 | 81 |
| 93331605 | 5 | 0.376 | 9.6 | 96 |
| 93331607 | 7 | 0.412 | 10.5 | 126 |
| 93331608 | 8 | 0.440 | 11.2 | 137 |
| 93331609 | 9 | 0.473 | 12.0 | 152 |
| 93331612 | 12 | 0.527 | 13.4 | 196 |
| 93331616 | 16 | 0.613 | 15.6 | 273 |
| 93331618 | 18 | 0.646 | 16.4 | 300 |
| 93331619 | 19 | 0.646 | 16.4 | 310 |
| 93331625 | 25 | 0.746 | 18.9 | 395 |
| 93331634 | 34 | 0.884 | 22.5 | 544 |
| 93331637 | 37 | 0.896 | 22.8 | 592 |
| 93331641 | 41 | 0.945 | 24.0 | 654 |
| 93331650 | 50 | 1.025 | 26.0 | 756 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|-----------------|--------------------------------|----------------------|------|-----------------------|
| ▶ 14 AWG | | | | |
| 93331402* | 2 | 0.346 | 8.8 | 65 |
| 93331403 | 3 | 0.364 | 9.2 | 88 |
| 93331404 | 4 | 0.396 | 10.1 | 112 |
| 93331405 | 5 | 0.430 | 10.9 | 130 |
| 93331407 | 7 | 0.472 | 12.0 | 169 |
| 93331409 | 9 | 0.578 | 14.7 | 236 |
| 93331412 | 12 | 0.644 | 16.4 | 297 |
| 93331418 | 18 | 0.744 | 18.9 | 417 |
| 93331425 | 25 | 0.904 | 23.0 | 596 |
| ▶ 12 AWG | | | | |
| 93331202* | 2 | 0.385 | 9.8 | 99 |
| 93331203 | 3 | 0.403 | 10.2 | 120 |
| 93331204 | 4 | 0.440 | 11.2 | 150 |
| 93331205 | 5 | 0.479 | 12.2 | 189 |
| 93331207 | 7 | 0.526 | 13.4 | 240 |
| ▶ 10 AWG | | | | |
| 93331003 | 3 | 0.487 | 12.4 | 179 |
| 93331004 | 4 | 0.568 | 14.4 | 248 |
| 93331005 | 5 | 0.618 | 15.7 | 298 |
| 93331007 | 7 | 0.674 | 17.1 | 403 |
| ▶ 8 AWG | | | | |
| 93330803 | 3 | 0.662 | 16.8 | 309 |
| 93330804 | 4 | 0.728 | 18.5 | 388 |
| 93330805 | 5 | 0.826 | 21.0 | 465 |
| ▶ 6 AWG | | | | |
| 93330603 | 3 | 0.765 | 19.4 | 443 |
| 93330604 | 4 | 0.879 | 22.3 | 580 |
| 93330605 | 5 | 0.954 | 24.2 | 717 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|------------------|--------------------------------|----------------------|------|-----------------------|
| ▶ 4 AWG | | | | |
| 93330403 | 3 | 0.966 | 24.5 | 696 |
| 93330404 | 4 | 1.061 | 26.9 | 845 |
| 93330405 | 5 | 1.179 | 29.9 | 1035 |
| ▶ 2 AWG | | | | |
| 93330203 | 3 | 1.114 | 28.3 | 977 |
| 93330204 | 4 | 1.160 | 29.5 | 1215 |
| 93330205 | 5 | 1.363 | 34.6 | 1575 |
| ▶ 1 AWG | | | | |
| 93330104 | 4 | 1.401 | 35.6 | 1588 |
| ▶ 1/0 AWG | | | | |
| 93331104 | 4 | 1.458 | 37.0 | 1971 |
| ▶ 2/0 AWG | | | | |
| 93332104 | 4 | 1.588 | 40.3 | 2301 |
| ▶ 3/0 AWG | | | | |
| 93333104 | 4 | 1.733 | 44.0 | 2946 |
| ▶ 4/0 AWG | | | | |
| 93334104 | 4 | 1.841 | 46.8 | 3459 |
| ▶ 250 MCM | | | | |
| 93332504 | 4 | 2.138 | 54.3 | 4538 |
| ▶ 350 MCM | | | | |
| 93333504 | 4 | 2.335 | 59.3 | 5591 |
| ▶ 500 MCM | | | | |
| 93335004 | 4 | 2.815 | 71.5 | 8065 |

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

UL TC-ER-JP (joist pull) available upon request



866-722-2974 • www.sabcable.com

Tray Cables for Industrial Applications

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 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:

| | |
|-------------------------|--|
| 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 ground from 3 conductors |
| Stranding: | in layers |
| Wrapping: | fleece tape |
| Shielding: | tinned copper braiding (85% coverage) |
| Jacket material: | special oil resistant pressure extruded PVC |
| Jacket color: | black (RAL 9005) |

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
- Class 1 Div 2 per NEC Article 501.4 (B)

Technical data:

| | |
|--|--|
| Voltage: | UL-AWM / (UL) / CSA: 600 V (UL) WTTC: 1000 V |
| Testing voltage: | 2500 V |
| Min. bending radius: <i>fixed installation:</i> <i>free movement:</i> | 6 x O.D. 8 x O.D. |
| Temperature range: <i>static:</i> | UL -AWM (UL) / CSA: up to +105°C up to +90°C -40°C |
| 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 |
| Approvals: | UL TC-ER, UL MTW, UL AWM, UL WTTC, CSA CIC-TC, CSA AWM, CE, RoHS |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page O/30 |

| 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 |
| ▶ 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) available upon request

Tray Cables for Industrial Applications



TR 600 S gray

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



-25°C SR FT4 OR AWM I/II A/B 90C 1000V FT4 RoHS CE

Marking for TR 600 S 93351641:

SAB NORTH AMERICA TR 600 S 93351641 16 AWG/41C (UL) TC-ER 90C DRY 75C WET 600V SUN RES DIR BUR OIL RES I/II OR WTTC 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

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 ground from 3 conductors |
| Stranding: | in layers |
| Jacket material: | special oil resistant pressure extruded PVC |
| Jacket color: | gray (RAL 7000) |

Technical data:

| | |
|--|---|
| Voltage: | UL-AWM / (UL) / CSA: 600 V (UL) WTTC: 1000 V |
| Testing voltage: | 2500 V |
| Min. bending radius: <i>fixed installation:</i> <i>free movement:</i> | 4 x O.D. 6 x O.D. |
| Temperature range: | UL -AWM (UL) / CSA: up to +105°C up to +90°C <i>static:</i> -40°C |
| 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 |
| Approvals: | UL TC-ER, UL MTW, UL AWM, UL WTTC, CSA CIC-TC, CSA CIC, CSA AWM, CE, RoHS |
| Absence of harmful substances: | 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
- 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 | | | | |
| 93351802* | 2 | 0.286 | 7.3 | 45 |
| 93351803 | 3 | 0.300 | 7.6 | 55 |
| 93351804 | 4 | 0.324 | 8.2 | 67 |
| 93351805 | 5 | 0.349 | 8.9 | 79 |
| 93351807 | 7 | 0.376 | 9.6 | 100 |
| 93351809 | 9 | 0.432 | 11.0 | 125 |
| 93351812 | 12 | 0.480 | 12.2 | 157 |
| 93351818 | 18 | 0.596 | 15.1 | 244 |
| 93351825 | 25 | 0.686 | 17.4 | 319 |
| 93351850 | 50 | 0.940 | 23.9 | 622 |
| ▶ 16 AWG | | | | |
| 93351602* | 2 | 0.306 | 7.8 | 52 |
| 93351603 | 3 | 0.321 | 8.2 | 70 |
| 93351604 | 4 | 0.348 | 8.8 | 81 |
| 93351605 | 5 | 0.376 | 9.6 | 96 |
| 93351607 | 7 | 0.412 | 10.5 | 126 |
| 93351608 | 8 | 0.440 | 11.2 | 137 |
| 93351609 | 9 | 0.473 | 12.0 | 152 |
| 93351612 | 12 | 0.527 | 13.4 | 196 |
| 93351616 | 16 | 0.613 | 15.6 | 273 |
| 93351618 | 18 | 0.646 | 16.4 | 300 |
| 93351619 | 19 | 0.646 | 16.4 | 310 |
| 93351625 | 25 | 0.746 | 18.9 | 395 |
| 93351634 | 34 | 0.884 | 22.5 | 544 |
| 93351641 | 41 | 0.945 | 24.0 | 654 |
| 93351650 | 50 | 1.025 | 26.0 | 756 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|-----------------|--------------------------------|----------------------|------|-----------------------|
| ▶ 14 AWG | | | | |
| 93351402* | 2 | 0.346 | 8.8 | 65 |
| 93351403 | 3 | 0.364 | 9.2 | 88 |
| 93351404 | 4 | 0.396 | 10.1 | 112 |
| 93351405 | 5 | 0.430 | 10.9 | 130 |
| 93351407 | 7 | 0.472 | 12.0 | 169 |
| 93351409 | 9 | 0.578 | 14.7 | 236 |
| 93351412 | 12 | 0.644 | 16.4 | 297 |
| 93351418 | 18 | 0.744 | 18.9 | 417 |
| 93351425 | 25 | 0.904 | 23.0 | 596 |
| ▶ 12 AWG | | | | |
| 93351202* | 2 | 0.385 | 9.8 | 99 |
| 93351203 | 3 | 0.403 | 10.2 | 120 |
| 93351204 | 4 | 0.440 | 11.2 | 150 |
| 93351205 | 5 | 0.479 | 12.2 | 189 |
| 93351207 | 7 | 0.526 | 13.4 | 240 |
| ▶ 10 AWG | | | | |
| 93351003 | 3 | 0.487 | 12.4 | 179 |
| 93351004 | 4 | 0.568 | 14.4 | 248 |
| 93351005 | 5 | 0.618 | 15.7 | 298 |
| 93351007 | 7 | 0.674 | 17.1 | 403 |
| ▶ 8 AWG | | | | |
| 93350803 | 3 | 0.662 | 16.8 | 309 |
| 93350804 | 4 | 0.728 | 18.5 | 388 |
| 93350805 | 5 | 0.826 | 21.0 | 465 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|----------------|--------------------------------|----------------------|------|-----------------------|
| ▶ 6 AWG | | | | |
| 93350603 | 3 | 0.765 | 19.4 | 443 |
| 93350604 | 4 | 0.879 | 22.3 | 580 |
| 93350605 | 5 | 0.954 | 24.2 | 717 |
| ▶ 4 AWG | | | | |
| 93350403 | 3 | 0.966 | 24.5 | 696 |
| 93350404 | 4 | 1.061 | 26.9 | 845 |
| 93350405 | 5 | 1.179 | 29.9 | 1035 |
| ▶ 2 AWG | | | | |
| 93350203 | 3 | 1.114 | 28.3 | 977 |
| 93350204 | 4 | 1.160 | 29.5 | 1215 |
| 93350205 | 5 | 1.363 | 34.6 | 1575 |

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

Tray Cables for Industrial Applications



TR 600 S CY gray

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



Marking for TR 600 S CY gray 93361604:

SAB NORTH AMERICA TR 600 S CY 93361604 16 AWG/ 4C (UL) TC-ER 90C DRY 75C 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:

| | |
|-------------------------|--|
| 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 ground from 3 conductors |
| Stranding: | in layers |
| Wrapping: | fleece tape |
| Shielding: | tinned copper braiding (85% coverage) |
| Jacket material: | special oil resistant pressure extruded PVC |
| Jacket color: | gray (RAL 7000) |

Technical data:

| | |
|--|---|
| Voltage: | UL-AWM / (UL) / CSA: 600 V (UL) WTTC: 1000 V |
| Testing voltage: | 2500 V |
| Min. bending radius: <i>fixed installation:</i> <i>free movement:</i> | 6 x O.D. 8 x O.D. |
| Temperature range: <i>static:</i> | UL -AWM (UL) / CSA: up to +105°C up to +90°C -40°C |
| 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 |
| Approvals: | UL TC-ER, UL MTW, UL AWM, UL WTTC, CSA CIC-TC, CSA CIC, CSA AWM, CE, RoHS |
| Absence of harmful substances: | 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
- Class 1 Div 2 per NEC Article 501.4 (B)

| item no. | no. of conductors incl. ground | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈lbs/mft |
|-----------------|--------------------------------|----------------------|--------------------|-----------------------|
| ▶ 18 AWG | | | | |
| 93361803 | 3 | 0.324 | 8.2 | 71 |
| 93361804 | 4 | 0.348 | 8.8 | 85 |
| 93361805 | 5 | 0.373 | 9.5 | 95 |
| 93361807 | 7 | 0.400 | 10.2 | 120 |
| 93361809 | 9 | 0.455 | 11.6 | 149 |
| 93361812 | 12 | 0.504 | 12.8 | 185 |
| 93361818 | 18 | 0.617 | 15.7 | 270 |
| 93361825 | 25 | 0.710 | 18.0 | 365 |
| ▶ 16 AWG | | | | |
| 93361603 | 3 | 0.345 | 8.8 | 83 |
| 93361604 | 4 | 0.372 | 9.4 | 100 |
| 93361605 | 5 | 0.400 | 10.2 | 116 |
| 93361607 | 7 | 0.430 | 10.9 | 145 |
| 93361609 | 9 | 0.492 | 12.5 | 187 |
| 93361612 | 12 | 0.579 | 14.7 | 245 |
| 93361618 | 18 | 0.664 | 16.9 | 335 |
| 93361625 | 25 | 0.770 | 19.6 | 445 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈lbs/mft |
|-----------------|--------------------------------|----------------------|--------------------|-----------------------|
| ▶ 14 AWG | | | | |
| 93361403 | 3 | 0.388 | 9.9 | 108 |
| 93361404 | 4 | 0.420 | 10.7 | 131 |
| 93361405 | 5 | 0.454 | 11.5 | 155 |
| 93361407 | 7 | 0.490 | 12.4 | 190 |
| 93361412 | 12 | 0.662 | 16.8 | 350 |
| 93361418 | 18 | 0.764 | 19.4 | 482 |
| 93361425 | 25 | 0.924 | 23.5 | 701 |
| ▶ 12 AWG | | | | |
| 93361203 | 3 | 0.427 | 10.8 | 145 |
| 93361204 | 4 | 0.464 | 11.8 | 178 |
| 93361205 | 5 | 0.506 | 12.9 | 210 |
| ▶ 10 AWG | | | | |
| 93361003 | 3 | 0.562 | 14.3 | 190 |
| 93361004 | 4 | 0.568 | 14.4 | 250 |
| 93361005 | 5 | 0.643 | 16.3 | 350 |
| 93361007 | 7 | 0.695 | 17.7 | 408 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈lbs/mft |
|----------------|--------------------------------|----------------------|--------------------|-----------------------|
| ▶ 8 AWG | | | | |
| 93360804 | 4 | 0.759 | 19.3 | 447 |
| ▶ 6 AWG | | | | |
| 93360604 | 4 | 0.915 | 23.2 | 672 |
| ▶ 4 AWG | | | | |
| 93360404 | 4 | 1.097 | 27.9 | 993 |
| ▶ 2 AWG | | | | |
| 93360204 | 4 | 1.271 | 32.3 | 1455 |


Other dimensions and colors are available on request

Tray Cables for Industrial Applications



TR 850 S

UV and oil resistant 90°C flexible tray cable - flexible cord
Type TC-ER and STOOW

W 105C 600V FT1 OR AWM I/II A/B 105C 1000V FT4 CE 



Marking for TR 850 S 8501205:

SAB NORTH AMERICA 12AWG/5C (UL) TYPE TC-ER 90C DRY 75C WET 600V SUN RES DIR BUR OIL RES I/II OR
TYPE STOOW 105C 600V OR WTTC 1000V OR c(UL) CIC-TC PVC 600V FT4 --- CSA STOOW 105C 600V FT1 OR AWM I/II A/B 105C 1000V FT4 CE

Construction:

| | |
|-------------------------|--|
| Conductor: | bare copper strands class K |
| Insulation: | special formulated PVC |
| Color code: | 3c- black, white, green/yellow; 4c- black, white, red, green/yellow; 5c- black, white red, brown, green/yellow; 7c- black numbered plus green/yellow ground |
| Stranding: | in layers |
| Jacket material: | special sunlight and oil resistant PVC |
| Jacket color: | black (RAL 9005) |

Technical data:

| | |
|--|---|
| Voltage: | UL-TC / STOOW / CSA STOOW: 600 V (UL) WTTC / CSA AWM: 1000 V |
| Testing voltage: | 2500 V |
| Min. bending radius: <i>fixed installation:</i> <i>free movement:</i> | 4 x O.D. 6 x O.D. |
| Temperature range: <i>static:</i> | UL / CSA STOOW (UL) / c(UL): up to +105°C up to +90°C -40°C |
| Burning characteristics: | (UL) FT4 and c(UL) FT1, FT2, FT4 |
| Oil resistance I & II: | yes |
| Sunlight resistance: | yes |
| Exposed runs: | yes |
| Direct burial: | yes |
| Machinery area: | yes |
| Approvals: | UL TC-ER, UL WTTC, UR AWM, c(UL) CIC-TC, CSA AWM, CE, RoHS |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page O/30 |

Outstanding features:



- flexible cable for cable tray use even where sunlight resistance is required.
- UL STOOW / CSA STOOW
- Class I Div I for flexible use only

| item no. | no. of conductors incl. ground | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|-----------------|--------------------------------|----------------------|------|-----------------------|
| ▶ 18 AWG | | | | |
| 08501803 | 3 | 0.363 | 9.2 | 77 |
| 08501804 | 4 | 0.394 | 10.0 | 95 |
| 08501805 | 5 | 0.462 | 11.7 | 133 |
| 08501807 | 7 | 0.495 | 12.6 | 157 |
| ▶ 16 AWG | | | | |
| 08501603 | 3 | 0.392 | 10.0 | 96 |
| 08501604 | 4 | 0.422 | 10.7 | 111 |
| 08501605 | 5 | 0.497 | 12.6 | 159 |
| 08501607 | 7 | 0.535 | 13.6 | 192 |
| ▶ 14 AWG | | | | |
| 08501403 | 3 | 0.541 | 13.7 | 170 |
| 08501404 | 4 | 0.584 | 14.8 | 208 |
| 08501405 | 5 | 0.656 | 16.7 | 264 |
| 08501407 | 7 | 0.708 | 18.0 | 324 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|-----------------|--------------------------------|----------------------|------|-----------------------|
| ▶ 12 AWG | | | | |
| 08501203 | 3 | 0.614 | 15.6 | 232 |
| 08501204 | 4 | 0.640 | 16.3 | 329 |
| 08501205 | 5 | 0.716 | 18.2 | 329 |
| 08501207 | 7 | 0.773 | 19.6 | 418 |
| ▶ 10 AWG | | | | |
| 08501003 | 3 | 0.696 | 17.7 | 307 |
| 08501004 | 4 | 0.742 | 18.8 | 378 |
| 08501005 | 5 | 0.819 | 20.8 | 445 |
| 08501007 | 7 | 0.850 | 21.6 | 544 |
| ▶ 8 AWG | | | | |
| 08500804 | 4 | 0.990 | 25.1 | 623 |
| ▶ 6 AWG | | | | |
| 08500604 | 4 | 1.120 | 28.4 | 828 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|----------------|--------------------------------|----------------------|------|-----------------------|
| ▶ 4 AWG | | | | |
| 08500404 | 4 | 1.277 | 32.4 | 1174 |
| ▶ 2 AWG | | | | |
| 08500204 | 4 | 1.442 | 36.6 | 1578 |

Other dimensions and colors are available on request



Tray Cables for Industrial Applications



TRAY HD TPE

Heavy duty tray cable
Type TC-ER



600V FT4 CSA AWM I/II A/B 90C 600V FT4 RoHS CE



Marking for TRAY HD TPE 94441842:

SAB NORTH AMERICA TRAY HD TPE 18 AWG 42c P/N 94441842 (UL) TC-ER 90C DRY 75C WET 600V OIL RES I/II SUN RES DIR BUR OR
WTTC 1000V OR AWM 21270 105C 600V OR c (UL) CIC-TC PVC/N 600V FT4 CSA AWM I/II A/B 90C 600V FT4 RoHS CE

Construction:

| | |
|-------------------------|---|
| Conductor: | bare copper strands class K |
| Insulation: | special formulated PVC/nylon |
| Color code: | blue with numerical print* one with white-blue conductor and one green/yellow ground** *Alpha-Numeric Alternate and Inverted, ie: 1-ONE |
| Stranding: | in layers |
| Jacket material: | TPE |
| Jacket color: | gray (RAL 7000) |

Technical data:

| | |
|---------------------------------------|--|
| Voltage: | UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 1000 V |
| Testing voltage: | 2500 V |
| Min. bending radius: | 7.5 x O.D. |
| Temperature range: | UL-AWM (UL) / c(UL) / CSA-AWM: up to +105°C up to +90°C <i>static:</i> -40°C |
| Burning characteristics: | (UL) FT4 and c(UL) FT1, FT2, FT4 |
| Oil resistance I & II: | yes |
| Exposed runs: | yes |
| Cold bend test: | -40°C |
| Approvals: | UL TC-ER, UL AWM, UL WTTC, c(UL) CIC-TC, CSA AWM, CE, RoHS |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page O/30 |
| Alt. Color code: | ** Add B at the end of Part No. for Black conductors: black conductors with numbers; and green/yellow ground ** Add R at the end of Part No. for Red conductors: red conductors with numbers; and green/yellow ground |

Outstanding features:

- heavy duty tray cable and control and instrumentation cable
- UL-AWM recognized for 105°C
- extremely oil resistant
- WTTC: UL subject 2277
- TC: UL standard 1277
- CSA listed
- NFPA 79 for Industrial Machinery
- c(UL) CIC-TC FT4
- 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 | | | | |
| 94441803 | 3 | 0.295 | 7.5 | 55 |
| 94441805 | 5 | 0.343 | 8.7 | 79 |
| 94441807 | 7 | 0.370 | 9.4 | 100 |
| 94441811 | 11 | 0.465 | 11.8 | 149 |
| 94441812 | 12 | 0.476 | 12.1 | 157 |
| 94441819 | 19 | 0.583 | 14.8 | 247 |
| 94441825 | 25 | 0.677 | 17.2 | 319 |
| 94441833 | 33 | 0.736 | 18.7 | 391 |
| 94441842 | 42 | 0.815 | 20.7 | 498 |
| 94441849 | 49 | 0.906 | 23.0 | 607 |
| 94441865 | 65 | 1.008 | 25.6 | 675 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|-----------------|--------------------------------|----------------------|------|-----------------------|
| ▶ 16 AWG | | | | |
| 94441603 | 3 | 0.323 | 8.2 | 70 |
| 94441605 | 5 | 0.409 | 10.4 | 96 |
| 94441607 | 7 | 0.539 | 13.7 | 166 |
| 94441611 | 11 | 0.555 | 14.1 | 191 |
| 94441612 | 12 | 0.634 | 16.1 | 196 |
| 94441619 | 19 | 0.642 | 16.3 | 307 |
| 94441625 | 25 | 0.736 | 18.7 | 395 |
| 94441633 | 33 | 0.815 | 20.7 | 475 |
| 94441642 | 42 | 0.949 | 24.1 | 612 |
| 94441649 | 49 | 1.004 | 25.5 | 748 |
| 94441665 | 65 | 1.122 | 28.5 | 998 |

Other dimensions and colors are available on request



Possible on request:

- with black jacket as well as red conductors

Tray Cables for Industrial Applications



TR 600 HD

Heavy duty tray cable

Type TC-ER



600V FT4 CSA AWM I/II A/B 90C 600V FT4 RoHS CE



Marking for TR 600 HD 32301604:

SAB NORTH AMERICA TR 600 HD 16 AWG 4c P/N 32301604 (UL) TC-ER 90C DRY 75C WET 600V OIL RES I/II SUN RES DIR BUR OR WTTTC 1000V OR AWM 21270 105C 600V OR c(UL) CIC-TC PVC/N 600V FT4 CSA AWM I/II A/B 90C 600V FT4 RoHS CE

Construction:

| | |
|-------------------------|---|
| Conductor: | bare copper strands class K |
| Insulation: | special formulated PVC/Nylon |
| Color code: | black with numerical print* and one green/yellow ground** *Alpha-Numeric Alternate and Inverted, ie: 1-One |
| Stranding: | in layers |
| Jacket material: | TPE |
| Jacket color: | orange |

Technical data:

| | |
|---------------------------------------|---|
| Voltage: | UL-AWM / UL / c(UL): 600 V (UL) WTTTC: 1000 V |
| Testing voltage: | 2500 V |
| Min. bending radius: | 7.5 x O.D. |
| Temperature range: | UL-AWM (UL) / c(UL) / CSA-AWM: up to +105°C up to +90°C -40°C |
| Burning characteristics: | (UL) FT4 and c(UL) FT1, FT2, FT4 |
| Oil resistance I & II: | yes |
| Exposed runs: | yes |
| Cold bend test: | -40°C |
| Approvals: | UL TC-ER, UL AWM, UL WTTTC, c(UL) CIC-TC, CSA AWM, CE, RoHS |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page O/30 |
| Alt. Color code: | ** Add B at the end of Part No. for Blue conductors: blue conductors with numbers; one white-blue conductor and green/yellow ground ** Add R at the end of Part No. for Red conductors: red conductors with numbers; one white-red conductor and green/yellow ground |

Outstanding features:

- heavy duty tray cable and control and instrumentation cable
- UL-AWM recognized for 105°C
- extremely oil resistant
- WTTTC: UL subject 2277
- TC: UL standard 1277
- CSA listed
- NFPA 79 for Industrial Machinery
- c(UL) CIC-TC FT4
- 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 | | | | |
| 32301803 | 3 | 0.300 | 7.6 | 55 |
| 32301804 | 4 | 0.324 | 8.2 | 67 |
| 32301805 | 5 | 0.349 | 8.9 | 79 |
| 32301807 | 7 | 0.376 | 9.6 | 100 |
| 32301812 | 12 | 0.480 | 12.2 | 157 |
| 32301818 | 18 | 0.596 | 15.1 | 244 |
| 32301825 | 25 | 0.685 | 17.4 | 319 |
| ▶ 16 AWG | | | | |
| 32301603 | 3 | 0.321 | 8.2 | 70 |
| 32301604 | 4 | 0.348 | 8.8 | 81 |
| 32301605 | 5 | 0.376 | 9.6 | 96 |
| 32301607 | 7 | 0.412 | 10.5 | 166 |
| 32301612 | 12 | 0.527 | 13.4 | 196 |
| 32301618 | 18 | 0.646 | 16.4 | 300 |
| 32301625 | 25 | 0.746 | 18.9 | 395 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|-----------------|--------------------------------|----------------------|------|-----------------------|
| ▶ 14 AWG | | | | |
| 32301403 | 3 | 0.364 | 9.2 | 88 |
| 32301404 | 4 | 0.396 | 10.1 | 92 |
| 32301405 | 5 | 0.434 | 11.0 | 130 |
| 32301407 | 7 | 0.472 | 12.0 | 169 |
| 32301412 | 12 | 0.644 | 16.4 | 297 |
| ▶ 12 AWG | | | | |
| 32301203 | 3 | 0.403 | 10.2 | 120 |
| 32301204 | 4 | 0.440 | 11.2 | 150 |
| 32301205 | 5 | 0.479 | 12.2 | 182 |
| 32301207 | 7 | 0.526 | 13.4 | 240 |
| 32301212 | 12 | 0.719 | 18.3 | 420 |
| ▶ 10 AWG | | | | |
| 32301003 | 3 | 0.506 | 12.9 | 179 |
| 32301004 | 4 | 0.590 | 15.0 | 248 |
| 32301005 | 5 | 0.642 | 16.3 | 298 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|----------------|--------------------------------|----------------------|------|-----------------------|
| ▶ 8 AWG | | | | |
| 32300804 | 4 | 0.756 | 19.2 | 385 |
| 32300805 | 5 | 0.826 | 21.0 | 465 |
| ▶ 6 AWG | | | | |
| 32300603 | 3 | 0.767 | 19.5 | 426 |
| 32300604 | 4 | 0.878 | 22.3 | 580 |
| ▶ 4 AWG | | | | |
| 32300404 | 4 | 1.061 | 26.9 | 845 |
| 32300405 | 5 | 1.179 | 29.9 | 1035 |
| ▶ 2 AWG | | | | |
| 32300204 | 4 | 1.235 | 31.4 | 1278 |
| 32300205 | 5 | 1.363 | 34.6 | 1575 |
| ▶ 1 AWG | | | | |
| 32300104 | 4 | 1.403 | 35.6 | 1605 |

Other dimensions and colors are available on request



Possible on request:

- with gray or black jacket as well as blue or red conductors

* For blue conductors add B at end of P/N, for red add an R, ie 32301404B

Tray Cables for Industrial Applications

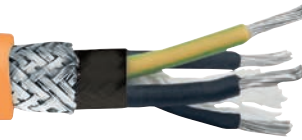


TR 600 C HD

Shielded heavy duty tray cable

Type TC-ER

300V FT4 CSA AWM I/II AB SOC 90C 600V FT4 RoHS



Marking for TR 600 C HD 32401604:

SAB NORTH AMERICA TR 600 C HD 16 AWG 4c P/N 32401604 (UL) TC-ER 90C DRY 75C WET 600V OIL RES I/II SUN RES DIR BUR OR WTTC 1000V OR AWM 21270 105C 600V OR c (UL) CIC-TC PVC/N 600V FT4 CSA AWM I/II A/B 90C 600V FT4 RoHS CE

Construction:

| | |
|-------------------------|---|
| Conductor: | bare copper strands class K |
| Insulation: | special formulated PVC/Nylon |
| Color code: | black with numerical print* and one green/yellow earth ground** *Alpha-Numeric Alternate and Inverted, ie: 1-ONE |
| Stranding: | in layers |
| Inner jacket: | PVC, color black |
| Shielding: | tinned copper braiding, 85% coverage |
| Jacket material: | TPE |
| Jacket color: | orange |

Outstanding features:



- heavy duty tray cable and control and instrumentation cable
- UL-AWM recognized for 105°C
- extremely oil resistant
- WTTC: UL subject 2277
- TC: UL standard 1277
- CSA listed
- NFPA 79 for Industrial Machinery
- c(UL) CIC-TC FT4
- Class 1 Div 2 per NEC Article 501.4 (B)

Technical data:

| | |
|---------------------------------------|---|
| Voltage: | UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 1000 V |
| Testing voltage: | 2500 V |
| Min. bending radius: | 7.5 x O.D. |
| Temperature range: | UL-AWM (UL) / c(UL) / CSA-AWM: static: up to +105°C up to +90°C -40°C |
| Burning characteristics: | (UL) FT4 and c(UL) FT1, FT2, FT4 |
| Oil resistance I & II: | yes |
| Exposed runs: | yes |
| Cold bend test: | -40°C |
| Approvals: | UL TC-ER, UL AWM, UL WTTC, c(UL) CIC-TC, CSA AWM, CE, RoHS |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page O/30 |
| Alt. Color code: | ** Add B at the end of Part No. for Blue conductors: blue conductors with numbers; one white-blue conductor and green/yellow ground ** Add R at the end of Part No. for Red conductors: red conductors with numbers; one white-red conductor and green/yellow ground |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|-----------------|--------------------------------|----------------------|------|-----------------------|
| ▶ 18 AWG | | | | |
| 32401803 | 3 | 0.385 | 9.8 | 99 |
| 32401804 | 4 | 0.408 | 10.4 | 113 |
| 32401805 | 5 | 0.433 | 11.0 | 126 |
| 32401807 | 7 | 0.460 | 11.7 | 151 |
| 32401812 | 12 | 0.599 | 15.2 | 250 |
| 32401818 | 18 | 0.700 | 17.8 | 352 |
| 32401825 | 25 | 0.783 | 19.9 | 449 |
| ▶ 16 AWG | | | | |
| 32401603 | 3 | 0.406 | 10.3 | 112 |
| 32401604 | 4 | 0.413 | 10.5 | 107 |
| 32401605 | 5 | 0.460 | 11.7 | 154 |
| 32401607 | 7 | 0.490 | 12.4 | 182 |
| 32401612 | 12 | 0.640 | 16.3 | 301 |
| 32401618 | 18 | 0.750 | 19.0 | 425 |
| 32401625 | 25 | 0.882 | 22.4 | 569 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|-----------------|--------------------------------|----------------------|------|-----------------------|
| ▶ 14 AWG | | | | |
| 32401403 | 3 | 0.450 | 11.4 | 138 |
| 32401404 | 4 | 0.480 | 12.2 | 149 |
| 32401407 | 7 | 0.584 | 14.8 | 257 |
| ▶ 12 AWG | | | | |
| 32401204 | 4 | 0.523 | 13.3 | 217 |
| 32401205 | 5 | 0.597 | 15.2 | 272 |
| ▶ 10 AWG | | | | |
| 32401004 | 4 | 0.698 | 17.7 | 366 |
| ▶ 8 AWG | | | | |
| 32400804 | 4 | 0.930 | 23.6 | 579 |
| ▶ 6 AWG | | | | |
| 32400604 | 4 | 1.023 | 26.0 | 793 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|----------------|--------------------------------|----------------------|------|-----------------------|
| ▶ 4 AWG | | | | |
| 32400404 | 4 | 1.204 | 30.6 | 1157 |
| ▶ 2 AWG | | | | |
| 32400204 | 4 | 1.382 | 35.1 | 1579 |
| ▶ 1 AWG | | | | |
| 32400104 | 4 | 1.548 | 39.3 | 2815 |

Other dimensions and colors are available on request



Possible on request:

- with gray or black jacket as well as blue or red conductors

* For blue conductors add B at end of P/N, for red add an R, ie 32401404B

Tray Cables for Industrial Applications



TR 600 Auto HD

Continuous flex heavy duty tray cable

Type TC-ER



Marking for TR 600 Auto HD 32321604:

SAB NORTH AMERICA TR 600 Auto HD 16AWG/4c P/N 32321604 (UL) TC-ER 90C DRY 75 C WET 600V OIL RES I/II SUN RES DIR BUR OR WTTC 1000V OR AWM 21270 105C 600V OR c(UL) CIC-TC PVC/N 600V FT4 CSA AWM I/II A/B 90C 600V FT4 RoHS CE

Construction:

| | |
|-------------------------|---|
| Conductor: | bare copper strands class M |
| Insulation: | special formulated PVC/Nylon |
| Color code: | black with numerical print* and one green/yellow earth ground** *Alpha-Numeric Alternate and Inverted, ie: 1-ONE |
| Stranding: | in layers with fleece tape separator |
| Jacket material: | TPE |
| Jacket color: | black (RAL 9005) |

Technical data:

| | |
|---------------------------------------|---|
| Voltage: | UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 1000 V |
| Testing voltage: | 2500 V |
| Min. bending radius: | <i>fixed installation:</i> 4 x O.D. <i>free movement:</i> 6 x O.D. <i>continuous flexing:</i> 10 x O.D. |
| Temperature range: | UL-AWM up to +105°C (UL) / c(UL) / CSA-AWM: up to +90°C <i>static:</i> -40°C |
| Cold bend test: | -40°C |
| Burning characteristics: | (UL) Vertical Tray Flame and c(UL) FT1, FT2, FT4 |
| Oil resistance I & II: | yes |
| Exposed runs: | yes |
| Approvals: | UL TC-ER, UL AWM, UL WTTC, c(UL) CIC-TC, CSA AWM, CE, RoHS |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page O/30 |
| Alt. Color code: | ** Add B at the end of Part No. for Blue conductors: blue conductors with numbers; one white-blue conductor and green/yellow ground ** Add R at the end of Part No. for Red conductors: red conductors with numbers; one white-red conductor and green/yellow ground |

Outstanding features:

- heavy duty tray cable and control and instrumentation cable
- UL-AWM 21270 recognized for 105°C
- extremely oil resistant
- WTTC: UL subject 2277
- TC: UL standard 1277
- CSA listed
- NFPA 79 for Industrial Machinery
- c(UL) CIC-TC FT4
- continuous flex applications
- Class 1 Div 2 per NEC Article 501.4 (B)

| item no. | no. of conductors incl. ground | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈lbs/mft |
|-----------------|--------------------------------|----------------------|--------------------|-----------------------|
| ▶ 18 AWG | | | | |
| 32321803 | 3 | 0.302 | 7.7 | 48 |
| 32321804 | 4 | 0.325 | 8.3 | 58 |
| 32321805 | 5 | 0.350 | 8.9 | 75 |
| 32321807 | 7 | 0.405 | 10.3 | 94 |
| 32321812 | 12 | 0.480 | 12.2 | 134 |
| 32321818 | 18 | 0.589 | 15.0 | 214 |
| 32321825 | 25 | 0.714 | 18.1 | 307 |
| ▶ 16 AWG | | | | |
| 32321603 | 3 | 0.336 | 8.5 | 63 |
| 32321604 | 4 | 0.364 | 9.2 | 77 |
| 32321605 | 5 | 0.394 | 10.0 | 98 |
| 32321607 | 7 | 0.458 | 11.6 | 125 |
| 32321612 | 12 | 0.580 | 14.7 | 204 |
| 32321618 | 18 | 0.669 | 17.0 | 300 |
| 32321625 | 25 | 0.819 | 20.8 | 423 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈lbs/mft |
|-----------------|--------------------------------|----------------------|--------------------|-----------------------|
| ▶ 14 AWG | | | | |
| 32321403 | 3 | 0.361 | 9.2 | 82 |
| 32321404 | 4 | 0.391 | 9.9 | 102 |
| 32321405 | 5 | 0.423 | 10.7 | 125 |
| 32321407 | 7 | 0.495 | 12.6 | 169 |
| 32321412 | 12 | 0.625 | 15.9 | 282 |
| ▶ 12 AWG | | | | |
| 32321203 | 3 | 0.420 | 10.7 | 115 |
| 32321204 | 4 | 0.458 | 11.6 | 145 |
| 32321205 | 5 | 0.499 | 12.7 | 189 |
| 32321207 | 7 | 0.621 | 15.8 | 264 |
| 32321212 | 12 | 0.742 | 18.8 | 398 |
| ▶ 10 AWG | | | | |
| 32321003 | 3 | 0.506 | 12.9 | 179 |
| 32321004 | 4 | 0.590 | 15.0 | 248 |
| 32321005 | 5 | 0.642 | 16.3 | 298 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈lbs/mft |
|----------------|--------------------------------|----------------------|--------------------|-----------------------|
| ▶ 8 AWG | | | | |
| 32320804 | 4 | 0.756 | 19.2 | 385 |
| 32320805 | 5 | 0.826 | 21.0 | 465 |
| ▶ 6 AWG | | | | |
| 32320603 | 3 | 0.767 | 19.5 | 426 |
| 32320604 | 4 | 0.879 | 22.3 | 580 |
| ▶ 4 AWG | | | | |
| 32320404 | 4 | 1.061 | 26.9 | 845 |
| 32320405 | 5 | 1.177 | 29.9 | 1035 |
| ▶ 2 AWG | | | | |
| 32320204 | 4 | 1.235 | 31.4 | 1278 |
| 32320205 | 5 | 1.363 | 34.6 | 1575 |

Other dimensions and colors are available on request



Possible on request:

- with gray jacket as well as blue or red conductors

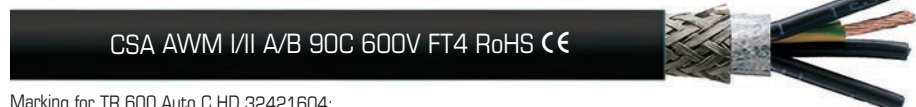
* For blue conductors add B at end of P/N, for red add an R, ie 32321404B

Tray Cables for Industrial Applications



TR 600 Auto C HD

Shielded continuous flex heavy duty tray cable
Type TC-ER



CSA AWM I/II A/B 90C 600V FT4 RoHS CE



Marking for TR 600 Auto C HD 32421604:

SAB NORTH AMERICA TR 600 Auto HD 16AWG/4c P/N 32421604 (UL) TC-ER 90C DRY 75 C WET 600V OIL RES I/II SUN RES DIR BUR OR
WTTC 1000V OR AWM 21270 105C 600V OR c(UL) CIC-TC PVC/N 600V FT4 CSA AWM I/II A/B 90C 600V FT4 RoHS CE

Construction:

| | |
|-------------------------|---|
| Conductor: | bare copper strands class M |
| Insulation: | special formulated PVC/Nylon |
| Color code: | black with numerical print* and one green/yellow earth ground** *Alpha-Numeric Alternate and Inverted, ie: 1-ONE |
| Stranding: | in layers |
| Wrapping: | fleece binder |
| Shielding: | tinned copper braiding (85% coverage) |
| Separator: | tissue tape |
| Jacket material: | TPE |
| Jacket color: | black (RAL 9005) |

Technical data:

| | |
|---------------------------------------|---|
| Voltage: | UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 1000 V |
| Testing voltage: | 2500 V |
| Min. bending radius: | <i>fixed installation:</i> 5 x O.D. <i>free movement:</i> 10 x O.D. <i>continuous flexing:</i> 12 x O.D. |
| Temperature range: | UL-AWM (UL) / c(UL) / CSA-AWM: up to +105°C up to +90°C <i>static:</i> -40°C |
| Cold bend test: | -40°C |
| Burning characteristics: | (UL) Vertical Tray Flame and c(UL) FT1, FT2, FT4 |
| Oil resistance I & II: | yes |
| Exposed runs: | yes |
| Approvals: | UL TC-ER, UL AWM, UL WTTC, c(UL) CIC-TC, CSA AWM, CE, RoHS |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page O/30 |
| Alt. Color code: | ** Add B at the end of Part No. for Blue conductors: blue conductors with numbers; one white-blue conductor and green/yellow ground ** Add R at the end of Part No. for Red conductors: red conductors with numbers; one white-red conductor and green/yellow ground |

Outstanding features:



- heavy duty tray cable and control and instrumentation cable
- UL-AWM 21270 recognized for 105°C
- extremely oil resistant
- WTTC: UL subject 2277
- TC: UL standard 1277
- CSA listed
- NFPA 79 for Industrial Machinery
- c(UL) CIC-TC FT4
- continuous flex applications
- Class 1 Div 2 per NEC Article 501.4 (B)

| Item no. | no. of conductors incl. ground | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈lbs/mft |
|-----------------|--------------------------------|----------------------|--------------------|-----------------------|
| ▶ 18 AWG | | | | |
| 32421803 | 3 | 0.322 | 8.2 | 45 |
| 32421804 | 4 | 0.345 | 8.8 | 85 |
| 32421807 | 7 | 0.425 | 10.8 | 120 |
| 32421812 | 12 | 0.500 | 12.7 | 185 |
| 32421818 | 18 | 0.609 | 15.5 | 260 |
| 32421825 | 25 | 0.714 | 18.1 | 307 |
| ▶ 16 AWG | | | | |
| 32421603 | 3 | 0.356 | 9.0 | 78 |
| 32421604 | 4 | 0.384 | 9.8 | 100 |
| 32421605 | 5 | 0.414 | 10.5 | 127 |
| 32421607 | 7 | 0.478 | 12.1 | 145 |
| 32421612 | 12 | 0.600 | 15.2 | 245 |
| 32421618 | 18 | 0.669 | 17.0 | 337 |
| 32421625 | 25 | 0.883 | 22.4 | 541 |

| Item no. | no. of conductors incl. ground | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈lbs/mft |
|-----------------|--------------------------------|----------------------|--------------------|-----------------------|
| ▶ 14 AWG | | | | |
| 32421403 | 3 | 0.381 | 9.7 | 108 |
| 32421404 | 4 | 0.411 | 10.4 | 123 |
| 32421405 | 5 | 0.443 | 11.3 | 147 |
| 32421407 | 7 | 0.515 | 13.1 | 185 |
| ▶ 12 AWG | | | | |
| 32421204 | 4 | 0.478 | 12.1 | 178 |
| 32421205 | 5 | 0.519 | 13.2 | 210 |
| 32421207 | 7 | 0.586 | 14.9 | 272 |
| ▶ 10 AWG | | | | |
| 32421004 | 4 | 0.613 | 15.6 | 280 |
| 32421005 | 5 | 0.673 | 17.1 | 350 |
| ▶ 8 AWG | | | | |
| 32420804 | 4 | 0.785 | 19.9 | 450 |

| Item no. | no. of conductors incl. ground | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈lbs/mft |
|----------------|--------------------------------|----------------------|--------------------|-----------------------|
| ▶ 6 AWG | | | | |
| 32420604 | 4 | 0.914 | 23.2 | 630 |
| ▶ 4 AWG | | | | |
| 32420404 | 4 | 1.094 | 27.8 | 945 |
| ▶ 2 AWG | | | | |
| 32420204 | 4 | 1.264 | 32.1 | 1450 |

Other dimensions and colors are available on request



Possible on request:
● with blue or red conductors

* For blue conductors add B at end of P/N, for red add an R, ie 32421404B

Manufacturing Capabilities & Cord Grips

SPECIALTY CABLES

Engineered solutions to your exact requirements

Conductor Materials:

- Bare copper
- Tinned copper
- Silver plated copper
- Nickel plated copper
- Nickel
- Nickel pure
- Compensating cable alloys

Conductor Sizes:

- 0.14 mm² - 300 mm² (26 AWG to 500 MCM)
- variety of stranding styles

Insulation and Jacketing Materials:

- PVC (many varieties)
- Polyethylene
- Polypropylene
- TPE
- Fiberglass
- Besilen®/Silicone
- Pi foil
- FEP, ETFE, PFA, PTFE
- SABIX® zero halogen
- Polyurethane

Conductor Count Ranges:

- unshielded - up to 125 conductors
- shielded - up to 100 conductors

Temperature Ranges: (based on material)

- Thermoplastic Elastomers -50°C up to +145°C
- Besilen®/Silicone -40°C up to +220°C
- FEP, ETFE, PFA, PTFE -90°C up to +260°C
- Halogen-free -50°C up to +220°C
- Fiberglass up to +600°C

Shielding and Braiding Materials:

- Bare copper
- Tinned copper
- Galvanized steel
- Stainless steel
- Aluminum foil
- Fiberglass
- Aramid



Approvals:

- UL, CSA, CE, EAC, VDE, HAR, IEC, EN, ISO, DNV-GL, LR, ABS, RINA, RMRS, BSI

CORD GRIPS

Secure & Protect Your Cable

CG 100 POLYAMIDE CORD GRIPS

Dome cap, black or gray available in NPT, PG, or Metric thread

Liquid tight seal, fast and easy installation, wide clamping range, multi-purpose applications, easy handling.



CG 200 POLYAMIDE CORD GRIPS

Flex cap, black or gray available in NPT, PG, or Metric thread

Strain relief gland offers maximum protection against conductor fatigue caused by flexing cables.



CG 300 NICKEL PLATED BRASS CORD GRIPS

Available in NPT, PG, or Metric thread

Impact resistant, suitable for industrial applications, water tight, and corrosion resistant.



CG 350 STAINLESS STEEL CORD GRIPS

Available in NPT, PG, or Metric thread and SS 303 or SS 316

Impact resistant, suitable for industrial applications, water tight, and corrosion resistant.



EMC-2 GROUNDING CORD GRIPS

Nickel plated brass EMC cable gland available in NPT, PG, or Metric thread

Optimal grounding of shielded cable with integral grounding springs, easy installation, water tight, and impact resistant

EMC-4 GROUNDING CORD GRIPS

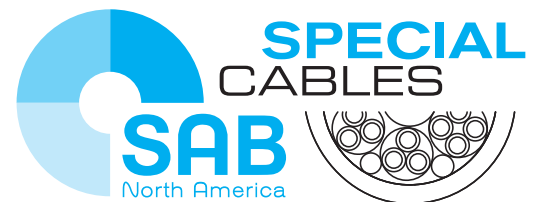
Nickel plated brass, EMC cable gland, vibration proof, available in NPT, PG, or Metric thread

Optimal grounding of shielded cable with integral grounding springs. Bidirectional cable installation allows the cable to move without damage to the shield.



Accessories & Fittings

| Enlargers | Reducers | Hole Plugs | Multi-Hole Bushing | |
|--------------------|----------|------------|--------------------|--|
| | | | | |
| Vent Gland & Plugs | | | Locknuts | |
| | | | | |



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