

FLEXIBLE CONTROL CABLES

also available with blue, red and orange conductors and black or orange jacket



CC 600 Oil resistant 90°C flexible control cable with black conductors



60°C 600V CSA AWM I/II A/B 90°C F 600V FT1 FT2

Marking for CC 600 02041840: SAB BRÖCKSKES · D-VIERSEN ·

VDE Reg.-Nr. 7000 40 G 1.0 mm² CC 600 18 AWG/40c 02041840 AWM Style 21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90°C F 600V FT1 FT2

CC 600 is a multi-conductor, 600 V, 90°C, UL recognized and CSA approved, oil resistant flexible control cable. 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. CC 600 control cables are 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.

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Construction:

| | |
|-------------------------|---|
| Conductor: | bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5 |
| Insulation: | special PVC acc. to DIN VDE and UL/CSA |
| Color code: | black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors |
| Stranding: | in layers |
| Jacket material: | special oil resistant PVC acc. to DIN VDE and UL/CSA |
| Jacket color: | gray |

Outstanding features:

- UL recognized and CSA approved
- high mechanical loading capacity
- oil resistant
- built in acc. VDE-Reg.-Nr. 7000

Technical data:

| | | |
|---|--|----------------------------|
| Nominal voltage: | DIN VDE U ₀ /U 300/500 V | UL/CSA 600 V |
| Testing voltage U: | 3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 | |
| 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. | |
| Radiation resistance: | 8 x 10 ⁷ cJ/kg | |
| Temperature range <i>static:</i> <i>flexing:</i> | DIN VDE -40/+70°C +5/+70°C | UL/CSA: up to +90°C |
| Burning characteristics: | flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW1, CSA FT1 and FT2 | |
| Oil resistance: | very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1, Oil 60°C acc. to UL 758, Fuel Oil acc. to CSA-C 22.2 No. 210-05 | |
| Chemical resistance: | see page O/11 | |
| 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 | nominal outer-ø mm | cable weight ≈ lbs/mft |
|---|--------------------------------|----------------------|--------------------|------------------------|
| ▶ 20 AWG (≈ 16/32) • 0.50 mm² | | | | |
| 02042002 | 2 | 0.209 | 5.3 | 27 |
| 02042003 | 3 | 0.220 | 5.6 | 32 |
| 02042004 | 4 | 0.236 | 6.0 | 36 |
| 02042005 | 5 | 0.264 | 6.7 | 48 |
| 02042007 | 7 | 0.283 | 7.2 | 58 |
| 02042008 | 8 | 0.335 | 8.5 | 77 |
| 02042009 | 9 | 0.362 | 9.2 | 84 |
| 02042010 | 10 | 0.370 | 9.4 | 85 |
| 02042012 | 12 | 0.382 | 9.7 | 96 |
| 02042014 | 14 | 0.398 | 10.1 | 108 |
| 02042016 | 16 | 0.429 | 10.9 | 126 |
| 02042018 | 18 | 0.449 | 11.4 | 139 |
| 02042025 | 25 | 0.547 | 13.9 | 190 |
| 02042034 | 34 | 0.614 | 15.6 | 251 |
| 02042041 | 41 | 0.665 | 16.9 | 287 |
| 02042061 | 61 | 0.780 | 19.8 | 424 |
| ▶ 18 AWG (≈ 30/32) • 1.00 mm² | | | | |
| 02041802 | 2 | 0.236 | 6.0 | 37 |
| 02041803 | 3 | 0.252 | 6.4 | 46 |
| 02041804 | 4 | 0.276 | 7.0 | 53 |
| 02041805 | 5 | 0.307 | 7.8 | 70 |
| 02041807 | 7 | 0.335 | 8.5 | 87 |
| 02041809 | 9 | 0.425 | 10.8 | 122 |
| 02041810 | 10 | 0.433 | 11.0 | 125 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈ lbs/mft |
|--|--------------------------------|----------------------|--------------------|------------------------|
| ▶ 18 AWG (≈ 30/32) • 1.00 mm² | | | | |
| 02041812 | 12 | 0.445 | 11.3 | 142 |
| 02041814 | 14 | 0.476 | 12.1 | 165 |
| 02041815 | 15 | 0.500 | 12.7 | 180 |
| 02041818 | 18 | 0.535 | 13.6 | 209 |
| 02041825 | 25 | 0.646 | 16.4 | 286 |
| 02041834 | 34 | 0.728 | 18.5 | 380 |
| 02041841 | 41 | 0.783 | 19.9 | 434 |
| 02041850 | 50 | 0.882 | 22.4 | 533 |
| 02041861 | 61 | 0.933 | 23.7 | 654 |
| ▶ 16 AWG (≈ 27-29/30) • 1.50 mm² | | | | |
| 02041602 | 2 | 0.264 | 6.7 | 48 |
| 02041603 | 3 | 0.280 | 7.1 | 58 |
| 02041604 | 4 | 0.311 | 7.9 | 71 |
| 02041605 | 5 | 0.339 | 8.6 | 90 |
| 02041607 | 7 | 0.378 | 9.6 | 116 |
| 02041608 | 8 | 0.441 | 11.2 | 149 |
| 02041609 | 9 | 0.480 | 12.2 | 162 |
| 02041612 | 12 | 0.504 | 12.8 | 191 |
| 02041615 | 15 | 0.563 | 14.3 | 229 |
| 02041618 | 18 | 0.602 | 15.3 | 282 |
| 02041625 | 25 | 0.728 | 18.5 | 386 |
| 02041630 | 30 | 0.760 | 19.3 | 453 |
| 02041634 | 34 | 0.827 | 21.0 | 519 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈ lbs/mft |
|--|--------------------------------|----------------------|--------------------|------------------------|
| ▶ 16 AWG (≈ 27-29/30) • 1.50 mm² | | | | |
| 02041641 | 41 | 0.902 | 22.9 | 597 |
| 02041650 | 50 | 0.980 | 24.9 | 714 |
| 02041661 | 61 | 1.051 | 26.7 | 891 |
| ▶ 14 AWG (≈ 46/30) • 2.50 mm² | | | | |
| 02041402 | 2 | 0.319 | 8.1 | 73 |
| 02041403 | 3 | 0.339 | 8.6 | 89 |
| 02041404 | 4 | 0.374 | 9.5 | 108 |
| 02041405 | 5 | 0.417 | 10.6 | 141 |
| 02041407 | 7 | 0.457 | 11.6 | 179 |
| 02041409 | 9 | 0.587 | 14.9 | 267 |
| 02041412 | 12 | 0.618 | 15.7 | 299 |
| 02041418 | 18 | 0.736 | 18.7 | 440 |
| 02041425 | 25 | 0.909 | 23.1 | 612 |
| ▶ 12 AWG (≈ 52/28) • 4.00 mm² | | | | |
| 02041203 | 3 | 0.402 | 10.2 | 132 |
| 02041204 | 4 | 0.445 | 11.3 | 161 |
| 02041205 | 5 | 0.496 | 12.6 | 209 |
| 02041207 | 7 | 0.547 | 13.9 | 271 |
| 02041212 | 12 | 0.740 | 18.8 | 447 |
| ▶ 10 AWG (≈ 78/28) • 6.00 mm² | | | | |
| 02041003 | 3 | 0.476 | 12.1 | 193 |
| 02041004 | 4 | 0.520 | 13.2 | 239 |
| 02041005 | 5 | 0.587 | 14.9 | 303 |
| 02041007 | 7 | 0.669 | 17.0 | 403 |

Continued on next page

Available with blue conductors (P/N series 0208xxxx).
Go to www.sabcable.com for more detail and specifications.

E-mail: info@sabcable.com



Web site: www.sabcable.com

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with blue, red and
orange conductors and
black or orange jacket

FLEXIBLE CONTROL CABLES



CC 600 Oil resistant 90°C flexible control cable with black conductors

Oil 60°C 600V CSA AWM I/II A/B 90°C F 600V FT1 FT2 CE



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Marking for CC 600 02040805:

SAB BRÖCKSKES · D-VIERSEN · CC 600 8 AWG/5c 02040805 AWM Style 21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90°C F 600V FT1 FT2 CE

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| Conductor: | bare copper strands acc. to UL/CSA |
| Insulation: | special PVC acc. to DIN VDE and UL/CSA |
| Color code: | black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors |
| Stranding: | in layers |
| Jacket material: | special oil resistant PVC acc. to DIN VDE and UL/CSA |
| Jacket color: | gray |

Outstanding features:

- UL recognized and CSA approved
- high mechanical loading capacity
- oil resistant
- P/N 2040804 is built in acc. to VDE Reg.-NR. 7000 with class 5 copper strands

Technical data:

| | | |
|---|--|----------------------------|
| Nominal voltage: | DIN VDE U ₀ /U 300/500 V | UL/CSA 600 V |
| Testing voltage U: | 3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 | |
| 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. | |
| Radiation resistance: | 8 x 10 ⁷ cJ/kg | |
| Temperature range <i>static:</i> <i>flexing:</i> | DIN VDE -40/+70°C +5/+70°C | UL/CSA: up to +90°C |
| Burning characteristics: | flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW1, CSA FT1 and FT2 | |
| Oil resistance: | very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1, Oil 60°C acc. to UL 758, Fuel Oil acc. to CSA-C 22.2 No. 210-05 | |
| Chemical resistance: | see page O/11 | |
| 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 |
|----------|--------------------------------|----------------------|----|------------------------|
|----------|--------------------------------|----------------------|----|------------------------|

▶ 8 AWG (≈ 69/26)

| | | | | |
|----------|---|-------|------|-----|
| 02040803 | 3 | 0.602 | 15.3 | 302 |
| 02040804 | 4 | 0.689 | 17.5 | 383 |
| 02040805 | 5 | 0.744 | 18.9 | 468 |

▶ 6 AWG (≈ 110/26)

| | | | | |
|----------|---|-------|------|-----|
| 02040604 | 4 | 0.823 | 20.9 | 568 |
| 02040605 | 5 | 0.929 | 23.6 | 651 |

▶ 4 AWG (≈ 175/26)

| | | | | |
|----------|---|-------|------|-----|
| 02040404 | 4 | 1.008 | 25.6 | 914 |
|----------|---|-------|------|-----|

▶ 2 AWG (≈ 272/26)

| | | | | |
|----------|---|-------|------|------|
| 02040204 | 4 | 1.197 | 30.4 | 1349 |
|----------|---|-------|------|------|

▶ 1 AWG (≈ 342/26)

| | | | | |
|----------|---|-------|------|------|
| 02040104 | 4 | 1.307 | 33.2 | 1656 |
|----------|---|-------|------|------|

Other dimensions and colors are possible on request.

Available with blue conductors (P/N series 0208xxxx).
Go to www.sabcable.com for more detail and specifications.

E-mail: info@sabcable.com



Web site: www.sabcable.com