

# Control and connection cables

## CC 600 CP

PUR control cable with numbered cores and overall copper screen



Marking for CC 600 CP 02810415:  
 SAB BRÜCKSKES · D-VIERSEN · 02810415 4x1,5mm<sup>2</sup> CC 600 CP 16 AWG/4c 02811604  
 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

| Construction:           |  |
|-------------------------|--|
| <b>Conductor:</b>       | bare copper strands<br>acc. to IEC 60228, VDE 0295, class 5  |
| <b>Insulation:</b>      | PVC, TI2<br>acc. to EN 50363-3 + VDE 0207-363-3  |
| <b>Colour code:</b>     | black cores with consecutive numbers<br>acc. to EN 50334 + VDE 0293-334,<br>green-yellow earth wire from 3 cores |
| <b>Stranding:</b>       | in layers  |
| <b>Wrapping:</b>        | PETP foil  |
| <b>Screen:</b>          | tinned copper braiding   |
| <b>Wrapping:</b>        | fine cotton binding  |
| <b>Sheath material:</b> | PU acc. to UL 758  |
| <b>Sheath colour:</b>   | grey (RAL 7000)  |

| Technical data:                       |  |
|---------------------------------------|--|
| <b>Nominal voltage:</b>               | U <sub>0</sub> /U 300/500 V  |
| <b>Voltage UL/CSA:</b>                | 600 V  |
| <b>Testing voltage:</b>               | core/core 2000 V<br>core/screen 2000 V   |
| <b>Min. bending radius</b>            |  |
| fixed laying:                         | 5 x d  |
| flexible application:                 | 10 x d   |
| <b>Radiation resistance:</b>          | 5 x 10 <sup>7</sup> cJ/kg  |
| <b>Temperature range</b>              | <b>DIN VDE</b> UL/CSA: up to +80 °C  |
| fixed laying:                         | -40/+70 °C   |
| flexible application:                 | +5/+70 °C  |
| <b>Fire performance:</b>              | flame retardant and self-extinguishing<br>acc. to IEC 60332-1-2 + VDE 0482-332-1-2,<br>UL VW-1, CSA FT1, FT2 |
| <b>Oil resistance:</b>                | very good - oilrating 60 °C acc. to UL 1581  |
| <b>Chem. resistance:</b>              | good against acids, alkalines, solvents,<br>hydraulic liquids etc.   |
| <b>Absence of harmful substances:</b> | acc. to RoHS directive of the European Union<br>see chapter N „Technical Data“                               |

| Outstanding features: |                             |
|-----------------------|-----------------------------|
| ●                     | UL recognized, CSA approved |
| ●                     | oil resistant               |
| ●                     | abrasion resistant          |
| ●                     | notch resistant             |
| ●                     | good chemical resistance    |

| item no. | no. of cores<br>x cross section<br>n x mm <sup>2</sup> | largest<br>single wire<br>ø mm | outer-ø<br>± 5%<br>mm | copper<br>figure<br>kg/km | cable<br>weight<br>≈ kg/km |
|----------|--|--------------------------------|-----------------------|---------------------------|----------------------------|
| 02810205 | 2 x 0,50   | 0,21                           | 6,7                   | 26,1                      | 62                         |
| 02810305 | 3 x 0,50   | 0,21                           | 7,0                   | 31,3                      | 70                         |
| 02810405 | 4 x 0,50   | 0,21                           | 7,4                   | 38,1                      | 80                         |
| 02810505 | 5 x 0,50   | 0,21                           | 8,0                   | 45,2                      | 95                         |
| 02810705 | 7 x 0,50   | 0,21                           | 8,5                   | 57,5                      | 112                        |
| 02811205 | 12 x 0,50  | 0,21                           | 10,6                  | 90,6                      | 167                        |
| 02811805 | 18 x 0,50  | 0,21                           | 12,4                  | 146,4                     | 245                        |
| 02812505 | 25 x 0,50  | 0,21                           | 14,4                  | 194,3                     | 314                        |
| 02810207 | 2 x 0,75   | 0,21                           | 7,2                   | 31,9                      | 72                         |
| 02810307 | 3 x 0,75   | 0,21                           | 7,5                   | 39,2                      | 82                         |
| 02810407 | 4 x 0,75   | 0,21                           | 8,0                   | 48,4                      | 95                         |
| 02810507 | 5 x 0,75   | 0,21                           | 8,6                   | 57,7                      | 112                        |
| 02810707 | 7 x 0,75   | 0,21                           | 9,9                   | 76,6                      | 148                        |
| 02811207 | 12 x 0,75  | 0,21                           | 11,8                  | 140,2                     | 219                        |
| 02811807 | 18 x 0,75  | 0,21                           | 13,5                  | 189,3                     | 297                        |
| 02812507 | 25 x 0,75  | 0,21                           | 16,4                  | 277,8                     | 414                        |
| 02810210 | 2 x 1,00   | 0,21                           | 7,4                   | 36,8                      | 79                         |
| 02810310 | 3 x 1,00   | 0,21                           | 7,7                   | 48,3                      | 91                         |
| 02810410 | 4 x 1,00   | 0,21                           | 8,3                   | 59,9                      | 107                        |
| 02810510 | 5 x 1,00   | 0,21                           | 8,9                   | 71,6                      | 127                        |
| 02810710 | 7 x 1,00   | 0,21                           | 10,2                  | 96,1                      | 168                        |
| 02811210 | 12 x 1,00  | 0,21                           | 12,2                  | 169,2                     | 248                        |
| 02811810 | 18 x 1,00  | 0,21                           | 14,1                  | 238,8                     | 347                        |

| item no. | no. of cores<br>x cross section<br>n x mm <sup>2</sup> | largest<br>single wire<br>ø mm | outer-ø<br>± 5%<br>mm | copper<br>figure<br>kg/km | cable<br>weight<br>≈ kg/km |
|----------|--|--------------------------------|-----------------------|---------------------------|----------------------------|
| 02812510 | 25 x 1,00  | 0,21                           | 17,0                  | 349,4                     | 482                        |
| 02810315 | 3 x 1,50   | 0,26                           | 8,4                   | 64,8                      | 112                        |
| 02810415 | 4 x 1,50   | 0,26                           | 9,0                   | 81,3                      | 133                        |
| 02810515 | 5 x 1,50   | 0,26                           | 9,7                   | 98,2                      | 159                        |
| 02810715 | 7 x 1,50   | 0,26                           | 11,4                  | 148,4                     | 225                        |
| 02811215 | 12 x 1,50  | 0,26                           | 13,5                  | 232,4                     | 316                        |
| 02811815 | 18 x 1,50  | 0,26                           | 16,1                  | 356,7                     | 475                        |
| 02812515 | 25 x 1,50  | 0,26                           | 18,9                  | 483,1                     | 627                        |
| 02810325 | 3 x 2,50   | 0,26                           | 9,7                   | 98,2                      | 158                        |
| 02810425 | 4 x 2,50   | 0,26                           | 10,4                  | 125,0                     | 189                        |
| 02810525 | 5 x 2,50   | 0,26                           | 11,5                  | 167,6                     | 240                        |
| 02810725 | 7 x 2,50   | 0,26                           | 13,4                  | 227,6                     | 326                        |
| 02811225 | 12 x 2,50  | 0,26                           | 16,5                  | 385,9                     | 496                        |
| 02811825 | 18 x 2,50  | 0,26                           | 19,1                  | 555,4                     | 704                        |
| 02812525 | 25 x 2,50  | 0,26                           | 24,1                  | 740,9                     | 992                        |
| 02810340 | 3 x 4,00   | 0,31                           | 11,3                  | 162,7                     | 232                        |
| 02810440 | 4 x 4,00   | 0,31                           | 12,2                  | 207,6                     | 281                        |
| 02810540 | 5 x 4,00   | 0,31                           | 13,3                  | 251,5                     | 340                        |
| 02810360 | 3 x 6,00   | 0,31                           | 13,1                  | 227,2                     | 323                        |
| 02810460 | 4 x 6,00   | 0,31                           | 14,2                  | 296,2                     | 395                        |
| 02810560 | 5 x 6,00   | 0,31                           | 15,7                  | 385,1                     | 498                        |
| 02810461 | 4 x 10,0   | 0,41                           | 19,0                  | 494,9                     | 692                        |

Other dimensions and colours are possible on request.