



## S 965 MTW CY Type MTW

Continuously flexible PVC control cable and Machine-Tool Cable with numbered red cores and overall copper screen



(UL) Type MTW 600V AWM Style 2587 90°C 600V CE

Marking for S 965 MTW CY 37280715:

SAB BRÖCKSKES · D-VIERSEN · 37280715 7 x 1,5 mm<sup>2</sup> S 965 MTW CY 16 AWG/7c 37281607

(UL) Type MTW 600V AWM Style 2587 90°C 600V CE

### Construction:

|                         |                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------|
| <b>Conductor:</b>       | bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6                           |
| <b>Insulation:</b>      | special formulated PVC                                                                       |
| <b>Colour code:</b>     | red cores with consecutive numbers acc. to EN 50334;<br>green-yellow earth wire from 3 cores |
| <b>Stranding:</b>       | specially adjusted layering with non-woven tape over each layer                              |
| <b>Inner sheath:</b>    | special formulated PVC                                                                       |
| <b>Screen:</b>          | tinned copper braiding                                                                       |
| <b>Wrapping:</b>        | non-woven tape                                                                               |
| <b>Sheath material:</b> | special oil resistant PVC                                                                    |
| <b>Sheath colour:</b>   | black (RAL 9005)                                                                             |

### Technical data:

|                                                                                  |                                                                                      |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Nominal voltage:</b>                                                          | <b>DIN VDE:</b> U <sub>0</sub> /U 300/500 V<br><b>UL/(UL):</b> 600 V                 |
| <b>Testing voltage U:</b>                                                        | 3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 core/screen 2000 V                      |
| <b>Min. bending radius</b><br><i>continuously flexible:</i>                      | 7,5 x d                                                                              |
| <b>Radiation resistance:</b>                                                     | 8 x 10 <sup>7</sup> cJ/kg                                                            |
| <b>Temperature range</b><br><i>fixed laying:</i><br><i>flexible application:</i> | <b>DIN VDE</b> <b>UL/(UL):</b> up to +90°C<br>-40/+70°C<br>+5/+70°C                  |
| <b>Fire performance:</b>                                                         | flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1 |
| <b>Oil resistance:</b>                                                           | very good -<br>TM5 acc. to DIN VDE 0281 part 1 + HD 21.1                             |
| <b>Absence of harmful substances:</b>                                            | acc. to RoHS directive of the European Union see page N/17                           |

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### Outstanding features:

- very good EMC characteristics
- very good flexibility
- oil resistant
- NFPA 79 for industrial machinery
- EAC approval



### Possible on request!

- with grey outer sheath and black cores

| 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>mm | copper<br>figure<br>kg/km | cable<br>weight<br>≈ kg/km |
|----------|--------------------------------------------------------|--------------------------------|---------------|---------------------------|----------------------------|
| 37280205 | 2 x 0,50                                               | 0,16                           | 9,9           | 36,2                      | 122                        |
| 37280305 | 3 x 0,50                                               | 0,16                           | 10,4          | 60,0                      | 149                        |
| 37280405 | 4 x 0,50                                               | 0,16                           | 11,1          | 65,9                      | 168                        |
| 37280505 | 5 x 0,50                                               | 0,16                           | 12,0          | 76,2                      | 198                        |
| 37280705 | 7 x 0,50                                               | 0,16                           | 14,3          | 95,2                      | 279                        |
| 37281205 | 12 x 0,50                                              | 0,16                           | 16,8          | 157,4                     | 378                        |
| 37281805 | 18 x 0,50                                              | 0,16                           | 19,6          | 201,3                     | 520                        |
| 37282505 | 25 x 0,50                                              | 0,16                           | 23,4          | 257,6                     | 688                        |
| 37280207 | 2 x 0,75                                               | 0,16                           | 10,5          | 60,2                      | 146                        |
| 37280307 | 3 x 0,75                                               | 0,16                           | 10,9          | 68,0                      | 162                        |
| 37280407 | 4 x 0,75                                               | 0,16                           | 11,6          | 80,6                      | 186                        |
| 37280507 | 5 x 0,75                                               | 0,16                           | 12,7          | 95,8                      | 226                        |
| 37280707 | 7 x 0,75                                               | 0,16                           | 15,0          | 117,4                     | 309                        |
| 37281207 | 12 x 0,75                                              | 0,16                           | 17,8          | 197,1                     | 430                        |
| 37281807 | 18 x 0,75                                              | 0,16                           | 20,8          | 260,4                     | 594                        |
| 37282507 | 25 x 0,75                                              | 0,16                           | 23,4          | 336,7                     | 770                        |
| 37280210 | 2 x 1,00                                               | 0,16                           | 10,7          | 65,3                      | 154                        |
| 37280310 | 3 x 1,00                                               | 0,16                           | 11,3          | 75,5                      | 172                        |
| 37280410 | 4 x 1,00                                               | 0,16                           | 11,8          | 90,5                      | 199                        |
| 37280510 | 5 x 1,00                                               | 0,16                           | 13,0          | 108,3                     | 243                        |
| 37280710 | 7 x 1,00                                               | 0,16                           | 15,3          | 134,7                     | 331                        |
| 37281210 | 12 x 1,00                                              | 0,16                           | 18,3          | 227,2                     | 468                        |
| 37281810 | 18 x 1,00                                              | 0,16                           | 21,3          | 305,2                     | 650                        |
| 37282510 | 25 x 1,00                                              | 0,16                           | 25,5          | 399,0                     | 866                        |
| 37280215 | 2 x 1,50                                               | 0,16                           | 11,3          | 75,8                      | 173                        |
| 37280315 | 3 x 1,50                                               | 0,16                           | 11,7          | 95,1                      | 200                        |
| 37280415 | 4 x 1,50                                               | 0,16                           | 12,8          | 117,6                     | 243                        |

| 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>mm | copper<br>figure<br>kg/km | cable<br>weight<br>≈ kg/km |
|----------|--------------------------------------------------------|--------------------------------|---------------|---------------------------|----------------------------|
| 37280515 | 5 x 1,50                                               | 0,16                           | 14,4          | 133,7                     | 302                        |
| 37280715 | 7 x 1,50                                               | 0,16                           | 16,5          | 199,8                     | 413                        |
| 37281215 | 12 x 1,50                                              | 0,16                           | 19,9          | 288,5                     | 571                        |
| 37281815 | 18 x 1,50                                              | 0,16                           | 23,3          | 396,5                     | 803                        |
| 37282515 | 25 x 1,50                                              | 0,16                           | 27,6          | 526,6                     | 1053                       |
| 37280225 | 2 x 2,50                                               | 0,16                           | 12,8          | 108,0                     | 228                        |
| 37280325 | 3 x 2,50                                               | 0,16                           | 13,5          | 132,9                     | 270                        |
| 37280425 | 4 x 2,50                                               | 0,16                           | 14,9          | 158,6                     | 328                        |
| 37280525 | 5 x 2,50                                               | 0,16                           | 16,0          | 188,7                     | 387                        |
| 37280725 | 7 x 2,50                                               | 0,16                           | 18,9          | 281,6                     | 549                        |
| 37281225 | 12 x 2,50                                              | 0,16                           | 23,1          | 424,6                     | 791                        |
| 37281825 | 18 x 2,50                                              | 0,16                           | 26,8          | 595,4                     | 1102                       |
| 37282525 | 25 x 2,50                                              | 0,16                           | 32,3          | 799,6                     | 1488                       |
| 37280340 | 3 x 4,00                                               | 0,16                           | 15,2          | 182,6                     | 352                        |
| 37280440 | 4 x 4,00                                               | 0,16                           | 16,4          | 252,3                     | 434                        |
| 37280540 | 5 x 4,00                                               | 0,16                           | 18,0          | 303,2                     | 526                        |
| 37280360 | 3 x 6,00                                               | 0,21                           | 17,0          | 273,1                     | 459                        |
| 37280460 | 4 x 6,00                                               | 0,21                           | 18,4          | 342,5                     | 557                        |
| 37280560 | 5 x 6,00                                               | 0,21                           | 20,4          | 418,2                     | 691                        |
| 37280461 | 4 x 10,0                                               | 0,21                           | 23,5          | 522,0                     | 873                        |
| 37280561 | 5 x 10,0                                               | 0,21                           | 25,8          | 640,2                     | 1084                       |
| 37280462 | 4 x 16,0                                               | 0,21                           | 29,0          | 801,5                     | 1309                       |
| 37280562 | 5 x 16,0                                               | 0,21                           | 32,4          | 968,1                     | 1660                       |
| 37280463 | 4 x 25,0                                               | 0,21                           | 32,7          | 1161,5                    | 1745                       |
| 37280563 | 5 x 25,0                                               | 0,21                           | 36,0          | 1424,9                    | 2175                       |
| 37280464 | 4 x 35,0                                               | 0,21                           | 37,0          | 1527,6                    | 2301                       |
| 37280465 | 4 x 50,0                                               | 0,21                           | 46,3          | 2187,3                    | 3374                       |

Other dimensions and colours are possible on request.