

# SD 780 C

TPE/PUR 가동&클린룸용 데이터 차폐 케이블 (색상식별)



BRÖCKSKES · D-VIERSEN · SAB Clean SD 780 · 18

Marking for **SAB<sup>clean</sup>** SD 780 C 37801803:

SAB BRÖCKSKES · D-VIERSEN · SAB Clean SD 780 · 18 x 0,34 mm<sup>2</sup> · **CE** RoHS and current meter marking



BRÖCKSKES · D-VIERSEN · SAB Clean S 780 C · 4

Marking for **SAB<sup>clean</sup>** S 780 C 37800410:

SAB BRÖCKSKES · D-VIERSEN · SAB Clean S 780 C · 4 G 1,0 mm<sup>2</sup> · **CE** RoHS and current meter marking

## Construction:

|                         |   |
|-------------------------|---|
| <b>Conductor:</b>       | <b>SD 780 C:</b><br>bare copper strands, extra fine wire<br><b>S 780 C:</b><br>bare copper strands acc. to IEC 60228,<br>EN 60228, VDE 0295, class 6                    |
| <b>Insulation:</b>      | TPE   |
| <b>Colour code:</b>     | <b>SD 780 C:</b><br>with reference to DIN 47100<br><b>S 780 C:</b><br>black cores with consecutive numbers<br>acc. to EN 50334;<br>green-yellow earth wire from 3 cores |
| <b>Stranding:</b>       | specialty adjusted layering   |
| <b>Wrapping:</b>        | non-woven tape  |
| <b>Inner sheath:</b>    | <b>S 780 C:</b> SABIX®  |
| <b>Wrapping:</b>        | <b>S 780 C:</b> non-woven tape  |
| <b>Screen:</b>          | tinned copper braiding  |
| <b>Wrapping:</b>        | non-woven tape  |
| <b>Sheath material:</b> | TPE   |
| <b>Sheath colour:</b>   | black (RAL 9005)  |

## Technical data:

|  |   |
|--|---|
| <b>Peak operating voltage:</b>                   | <b>SD 780 C:</b><br>max. 350 V  |
| <b>Nominal voltage:</b>                          | <b>S 780 C:</b><br>Uo/U 300/500 V   |
| <b>Testing voltage:</b>                          | <b>SD 780 C:</b><br>core/core 1500 V<br>core/screen 1200 V<br><b>S 780 C:</b><br>core/core 2000 V<br>core/screen 2000 V |
| <b>Min. bending radius:</b>                      | 7,5 x d   |
| <b>Temperature range</b><br><i>fixed laying:</i> | -40/+80 °C  |
| <i>flexible application:</i>                     | -30/+80 °C  |
| <b>Oil resistance:</b>                           | very good - Oil 60 °C acc. to UL 758  |
| <b>Air cleanliness class 1:</b>                  | acc. to DIN EN 14644-1<br>US Federal Standard 209 E   |
| <b>Absence of harmful substances:</b>            | acc. to RoHS directive of the European Union  |

## Outstanding features:

- flexible at low temperatures
- high abrasion resistance
- small outer diameter
- oil resistant
- good EMC characteristics\*

\* Copper braiding should be connected circularly to optimize the EMC characteristics

| 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 | ohmic resistance<br>at 20 °C<br>max. Ω/km |
|-----------------|--|--------------------------------|-----------------------|---------------------------|----------------------------|---|
| <b>SD 780 C</b> |  |                                |                       |                           |                            |   |
| 37800201        | 2 x 0,14   | 0,11                           | 4,3                   | 13,4                      | 25                         | 139,3                                     |
| 37800301        | 3 x 0,14   | 0,11                           | 4,4                   | 14,8                      | 27                         | 139,3                                     |
| 37800302        | 3 x 0,25   | 0,11                           | 4,8                   | 18,3                      | 32                         | 78,0                                      |
| 37800402        | 4 x 0,25   | 0,11                           | 5,0                   | 20,8                      | 36                         | 78,0                                      |
| 37800303        | 3 x 0,34   | 0,11                           | 5,0                   | 21,0                      | 35                         | 57,4                                      |
| 37800503        | 5 x 0,34   | 0,11                           | 5,6                   | 31,8                      | 51                         | 57,4                                      |
| 37800703        | 7 x 0,34   | 0,11                           | 6,3                   | 39,2                      | 62                         | 57,4                                      |
| 37801003        | 10 x 0,34  | 0,11                           | 7,2                   | 52,8                      | 77                         | 57,4                                      |
| 37801803        | 18 x 0,34  | 0,11                           | 8,4                   | 84,6                      | 117                        | 57,4                                      |
| <b>S 780 C</b>  |  |                                |                       |                           |                            |   |
| 37800305        | 3 x 0,50   | 0,16                           | 7,2                   | 34,6                      | 68                         | 39,0                                      |
| 37800405        | 4 x 0,50   | 0,16                           | 7,6                   | 39,8                      | 76                         | 39,0                                      |
| 37800207        | 2 x 0,75   | 0,16                           | 7,5                   | 34,9                      | 70                         | 26,0                                      |
| 37800407        | 4 x 0,75   | 0,16                           | 8,2                   | 51,6                      | 92                         | 26,0                                      |
| 37800210        | 2 x 1,00   | 0,16                           | 7,9                   | 41,8                      | 80                         | 19,5                                      |
| 37800310        | 3 x 1,00   | 0,16                           | 8,2                   | 51,6                      | 92                         | 19,5                                      |
| 37800410        | 4 x 1,00   | 0,16                           | 8,9                   | 64,6                      | 113                        | 19,5                                      |
| 37800315        | 3 x 1,50   | 0,16                           | 9,0                   | 69,4                      | 118                        | 13,3                                      |
| 37800415        | 4 x 1,50   | 0,16                           | 9,6                   | 84,5                      | 138                        | 13,3                                      |
| 37800425        | 4 x 2,50   | 0,16                           | 11,7                  | 148,3                     | 216                        | 7,98                                      |
| 37800440        | 4 x 4,00   | 0,16                           | 13,9                  | 215,5                     | 313                        | 4,95                                      |

Other dimensions and colours are possible on request.



**Cleanroom classification**  
DIN EN ISO 14644-1  
air cleanliness class 1,  
US Federal Standard 209 E  
air cleanliness class 1.