

# CONTINUOUS FLEX CABLES

## SD 86 C Shielded continuous flex cable track data cable for moderate flexing applications



BRÖCKSKES · D-VIERSEN · SD 86 C 25 x 0,25

Marking for SD 86 C 37822502:  
SAB BRÖCKSKES · D-VIERSEN · SD 86 C 25 x 0,25 mm<sup>2</sup> CE

SD 86 C has been designed for use in cable tracks, automatic handling equipment and machine components in constant operation. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The special cable design makes SD 86 C ideally suited for a wide range of moderate flexing operations.

### Construction:

|                         |   |
|-------------------------|---|
| <b>Conductor:</b>       | bare copper strands, extra fine wires                           |
| <b>Insulation:</b>      | PVC TI2 acc. to DIN VDE 0281 part 1 + HD 21.1                   |
| <b>Color code:</b>      | with reference to DIN 47100                                     |
| <b>Stranding:</b>       | specially adjusted layering with non-woven tape over each layer |
| <b>Wrapping:</b>        | non-woven tape  |
| <b>Screen:</b>          | tinned copper braiding  |
| <b>Wrapping:</b>        | non-woven tape  |
| <b>Jacket material:</b> | PVC TM2 acc. to DIN VDE 0281 part 1 + HD 21.1                   |
| <b>Jacket color:</b>    | gray  |

### Outstanding features:

- very good flexibility
- good EMC characteristics
- small bending radius
- reinforced outer jacket

### Technical data:

|  |  |
|--|--|
| <b>Peak operating voltage:</b>                 | max. 350 V acc. to DIN VDE   |
| <b>Testing voltage U:</b>                      | 1500 V acc. to DIN VDE 0472 part 509 conductor/screen 1200 V                             |
| <b>Min. bending radius continuous flexing:</b> | 7.5 x O.D.   |
| <b>Radiation resistance:</b>                   | 8 x 10 <sup>7</sup> cJ/kg  |
| <b>Temperature range static:</b>               | -30/+70 °C   |
| <b>flexing:</b>                                | -5/+70 °C  |
| <b>Burning characteristics:</b>                | flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2              |
| <b>Oil resistance:</b>                         | acc. to our internal standard see page N/25  |
| <b>Chem. resistance:</b>                       | see page N/9   |
| <b>Flexibility:</b>                            | very good  |
| <b>Absence of harmful substances:</b>          | acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/25 |

| item no.                                      | no. of conductors | nominal outer-ø inch | mm  | cable weight ≈ lbs/mft |
|---|-------------------|----------------------|-----|------------------------|
| <b>▶ 26 AWG (18/38) • 0.14 mm<sup>2</sup></b> |                   |                      |     |                        |
| 37820201                                      | 2                 | 0.146                | 3.7 | 13                     |
| 37820301                                      | 3                 | 0.154                | 3.9 | 15                     |
| 37820401                                      | 4                 | 0.161                | 4.1 | 16                     |
| 37820501                                      | 5                 | 0.173                | 4.4 | 20                     |
| 37820701                                      | 7                 | 0.205                | 5.2 | 27                     |
| 37821201                                      | 12                | 0.248                | 6.3 | 38                     |
| 37821801                                      | 18                | 0.280                | 7.1 | 50                     |
| 37822501                                      | 25                | 0.346                | 8.8 | 70                     |

| item no.                                      | no. of conductors | nominal outer-ø inch | mm  | cable weight ≈ lbs/mft |
|---|-------------------|----------------------|-----|------------------------|
| <b>▶ 24 AWG (32/38) • 0.25 mm<sup>2</sup></b> |                   |                      |     |                        |
| 37820202                                      | 2                 | 0.157                | 4.0 | 15                     |
| 37820302                                      | 3                 | 0.165                | 4.2 | 19                     |
| 37820402                                      | 4                 | 0.177                | 4.5 | 22                     |
| 37820502                                      | 5                 | 0.197                | 5.0 | 26                     |
| 37820702                                      | 7                 | 0.224                | 5.7 | 35                     |
| 37821202                                      | 12                | 0.272                | 6.9 | 49                     |
| 37821802                                      | 18                | 0.327                | 8.3 | 73                     |
| 37822502                                      | 25                | 0.382                | 9.7 | 93                     |

| item no.                                      | no. of conductors | nominal outer-ø inch | mm   | cable weight ≈ lbs/mft |
|---|-------------------|----------------------|------|------------------------|
| <b>▶ 22 AWG (42/38) • 0.34 mm<sup>2</sup></b> |                   |                      |      |                        |
| 37820203                                      | 2                 | 0.189                | 4.8  | 21                     |
| 37820303                                      | 3                 | 0.197                | 5.0  | 25                     |
| 37820403                                      | 4                 | 0.213                | 5.4  | 30                     |
| 37820503                                      | 5                 | 0.228                | 5.8  | 34                     |
| 37820703                                      | 7                 | 0.268                | 6.8  | 44                     |
| 37821203                                      | 12                | 0.335                | 8.5  | 70                     |
| 37821803                                      | 18                | 0.386                | 9.8  | 97                     |
| 37822503                                      | 25                | 0.461                | 11.7 | 135                    |

Other dimensions and colors are possible on request.