

# CONTINUOUS FLEX CABLES



## SD 200 C Continuous flex halogen free TPE outer jacket shielded control data cable with extreme temperature range



Marking for SD 200 C 07842501:

SAB BRÖCKSKES · D-VIERSEN · SD 200 C 25 x 0,14 mm² CE

SD 200 C is a continuous flex shielded multi-conductor cable with a temperature range of -40°C up to +90°C designed for high speed applications even in the most extreme conditions. The halogen free TPE outer jacket passes the stringent VDE test 0282 part 10 and HD 22.10 oil test and provides excellent resistance to chemicals and abrasion. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

**B**  
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### Construction:

|                         |                                                                 |
|-------------------------|-----------------------------------------------------------------|
| <b>Conductor:</b>       | bare copper strands, extra fine wires                           |
| <b>Insulation:</b>      | TPE                                                             |
| <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> | TPE outer jacket                                                |
| <b>Jacket color:</b>    | gray                                                            |

### Outstanding features:

- free from paint wetting disruptive substances (LABS - free)
- flexible at low temperatures
- halogen-free
- travel > 10 m is possible
- good EMC characteristics
- high abrasion resistance

### 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>                   | 5 x 10 <sup>7</sup> cJ/kg                                       |
| <b>Temperature range static:</b>               | -50/+90 °C                                                      |
| <b>flexing:</b>                                | -40/+90 °C                                                      |
| <b>Zero halogen:</b>                           | acc. to DIN VDE 0472 part 815 and IEC 60754-1                   |
| <b>Oil resistance:</b>                         | very good acc. to DIN VDE 0282 part 10 + HD 22.10               |
| <b>Chemical resistance:</b>                    | good against acids, alkalines, solvents, hydraulic liquids etc. |
| <b>Continuous flexibility:</b>                 | very good                                                       |
| <b>Weather resistance:</b>                     | very good                                                       |
| <b>Absence of harmful substances:</b>          | acc. to RoHS directive of the European Union see page N/28      |

| item no.                                  | no. of conductors | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈ lbs/mft | item no.                                  | no. of conductors | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈ lbs/mft | item no.                                  | no. of conductors | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈ lbs/mft |
|-------------------------------------------|-------------------|----------------------|--------------------|------------------------|-------------------------------------------|-------------------|----------------------|--------------------|------------------------|-------------------------------------------|-------------------|----------------------|--------------------|------------------------|
| ▶ 26 AWG (≈ 18/38) • 0.14 mm <sup>2</sup> |                   |                      |                    |                        | ▶ 24 AWG (≈ 32/38) • 0.25 mm <sup>2</sup> |                   |                      |                    |                        | ▶ 22 AWG (≈ 42/38) • 0.34 mm <sup>2</sup> |                   |                      |                    |                        |
| 07840201                                  | 2                 | 0.146                | 3.7                | 13                     | 07840202                                  | 2                 | 0.157                | 4.0                | 15                     | 07840203                                  | 2                 | 0.165                | 4.2                | 17                     |
| 07840301                                  | 3                 | 0.150                | 3.8                | 14                     | 07840302                                  | 3                 | 0.165                | 4.2                | 17                     | 07840303                                  | 3                 | 0.173                | 4.4                | 21                     |
| 07840401                                  | 4                 | 0.161                | 4.1                | 16                     | 07840402                                  | 4                 | 0.173                | 4.4                | 22                     | 07840403                                  | 4                 | 0.185                | 4.7                | 24                     |
| 07840501                                  | 5                 | 0.169                | 4.3                | 18                     | 07840502                                  | 5                 | 0.185                | 4.7                | 24                     | 07840503                                  | 5                 | 0.197                | 5.0                | 28                     |
| 07840701                                  | 7                 | 0.193                | 4.9                | 24                     | 07840702                                  | 7                 | 0.213                | 5.4                | 32                     | 07840703                                  | 7                 | 0.224                | 5.7                | 36                     |
| 07841201                                  | 12                | 0.224                | 5.7                | 32                     | 07841002                                  | 10                | 0.244                | 6.2                | 38                     | 07841203                                  | 12                | 0.264                | 6.7                | 50                     |
| 07841801                                  | 18                | 0.256                | 6.5                | 43                     | 07841202                                  | 12                | 0.252                | 6.4                | 44                     | 07841803                                  | 18                | 0.307                | 7.8                | 71                     |
| 07842501                                  | 25                | 0.299                | 7.6                | 55                     | 07841802                                  | 18                | 0.287                | 7.3                | 59                     | 07842503                                  | 25                | 0.370                | 9.4                | 95                     |
| 07843201                                  | 32                | 0.327                | 8.3                | 69                     | 07842502                                  | 25                | 0.346                | 8.8                | 79                     | 07843203                                  | 32                | 0.402                | 10.2               | 122                    |
|                                           |                   |                      |                    |                        | 07843202                                  | 32                | 0.366                | 9.3                | 95                     |                                           |                   |                      |                    |                        |

Other dimensions and colors are possible on request.