

Highly dynamic cables

S 99 *ECO*

continuously flexible SABIX®/PUR control cable with numbered cores



marking example:

SAB BRÜCKSKES · D-VIERSEN · S 99 *ECO* 12x1,5mm² CE

Construction:

| | |
|---------------------------------------|--|
| Conductor: | bare copper strands acc. to IEC 60228, VDE 0295, class 6 |
| Insulation: | SABIX® |
| Colour code from 2 conductors: | black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334, green-yellow earth wire from 3 cores |
| Stranding: | specially adjusted layering with non-woven tape over each layer |
| Wrapping: | non-woven tape |
| Sheath material: | PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 with mat surface |
| Sheath colour: | black (RAL 9005) |

Outstanding features:

- » low capacity
- » PWIS uncritical
(PWIS = paint-wetting impairment substances)
- » flexible at low temperatures
- » halogen-free
- » high abrasion resistance
- » small bending radius
- » small outer diameter
- » PFAS free

Technical Data:

| | |
|---------------------------------------|---|
| Nominal voltage: | U ₀ /U 300/500 V |
| Testing voltage: | core/core 2000 V |
| Torsion angle: | ± 60°/1 m |
| Min. bending radius | |
| <i>fixed laying:</i> | 3 x d |
| <i>flexible application:</i> | 7,5 x d |
| Temperature range | |
| <i>fixed laying:</i> | -50/+90 °C |
| <i>flexible application:</i> | -40/+90 °C |
| Halogen-free: | acc. to IEC 60754-1 + VDE 0482-754-1 |
| Oil resistance: | very good - TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Chem. resistance: | good against acids, alkalines, solvents, hydraulic liquids etc. |
| Continuous Flexibility: | very good |
| Sunlight resistance: | acc. to HD 605 |
| Ozone resistance: | acc. to DIN EN 50396 |
| Salt water resistance: | acc. to UL 1309 |
| Absence of harmful substances: | acc. to RoHS directive of the European Union, see chapter N „Technical data“ |

| item no. | no. of cores x cross section n x mm ² | largest single wire ø mm | outer-ø ± 10% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|--------------------------------|------------------------|---------------------------|----------------------------|
| 09740505 | 5 x 0,50 | 0,16 | 5,4 | 24,0 | 43 |
| 09740705 | 7 x 0,50 | 0,16 | 6,4 | 33,6 | 60 |
| 09741205 | 12 x 0,50 | 0,16 | 7,6 | 57,6 | 86 |
| 09741805 | 18 x 0,50 | 0,16 | 9,0 | 86,4 | 123 |
| 09742505 | 25 x 0,50 | 0,16 | 11,0 | 120,0 | 173 |
| 09740207 | 2 x 0,75 | 0,16 | 4,9 | 14,4 | 30 |
| 09740307 | 3 x 0,75 | 0,16 | 5,2 | 21,6 | 37 |
| 09740407 | 4 x 0,75 | 0,16 | 5,6 | 28,8 | 48 |
| 09740507 | 5 x 0,75 | 0,16 | 6,1 | 36,0 | 63 |
| 09740707 | 7 x 0,75 | 0,16 | 7,1 | 50,4 | 78 |
| 09741807 | 18 x 0,75 | 0,16 | 10,6 | 129,6 | 184 |
| 09740210 | 2 x 1,00 | 0,16 | 5,1 | 19,2 | 35 |
| 09740710 | 7 x 1,00 | 0,16 | 7,6 | 67,2 | 98 |
| 09741210 | 12 x 1,00 | 0,16 | 9,1 | 115,2 | 146 |
| 09741810 | 18 x 1,00 | 0,16 | 11,0 | 172,8 | 226 |
| 09742510 | 25 x 1,00 | 0,16 | 13,2 | 240,0 | 297 |
| 09743610 | 25 x 1,00 | 0,16 | 15,1 | 345,6 | 428 |

| item no. | no. of cores x cross section n x mm ² | largest single wire ø mm | outer-ø ± 10% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|--------------------------------|------------------------|---------------------------|----------------------------|
| 09740215 | 2 x 1,50 | 0,16 | 5,7 | 28,8 | 47 |
| 09740315 | 3 x 1,50 | 0,16 | 6,0 | 43,2 | 63 |
| 09740415 | 4 x 1,50 | 0,16 | 6,5 | 57,6 | 78 |
| 09740515 | 5 x 1,50 | 0,16 | 7,3 | 72,0 | 97 |
| 09740715 | 7 x 1,50 | 0,16 | 8,5 | 100,8 | 136 |
| 09741215 | 12 x 1,50 | 0,16 | 10,7 | 172,8 | 213 |
| 09742515 | 25 x 1,50 | 0,16 | 15,4 | 360,0 | 432 |
| 09740225 | 2 x 2,50 | 0,16 | 6,7 | 48,0 | 67 |
| 09740325 | 3 x 2,50 | 0,16 | 7,5 | 72,0 | 97 |
| 09740425 | 4 x 2,50 | 0,16 | 8,3 | 96,0 | 125 |
| 09740525 | 5 x 2,50 | 0,16 | 9,1 | 120,0 | 140 |
| 09740360 | 3 x 6,00 | 0,21 | 10,9 | 172,8 | 223 |
| 09740560 | 5 x 6,00 | 0,21 | 13,2 | 288,0 | 351 |
| 09740361 | 3 x 10,0 | 0,21 | 13,0 | 288,0 | 357 |
| 09740162 | 1 x 16,0 | 0,21 | 7,9 | 153,6 | 169 |
| 09740163 | 1 x 25,0 | 0,21 | 9,3 | 240,0 | 250 |
| 09740164 | 1 x 35,0 | 0,21 | 11,1 | 336,0 | 356 |

Other dimensions and colours are possible on request.