



SABIX® D 315 S Flexible data cable with overall copper screen



Marking for SABIX A D 315 S 83150550:
SAB BRÖCKSKES · D-VIERSEN · SABIX D 315 S 5 x 0,5 mm² CE

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Construction:

| | |
|-------------------------|------------------------------------------|
| Conductor: | bare copper strands acc. to DIN VDE 0812 |
| Insulation: | SABIX® |
| Colour code: | with reference to DIN 47100 |
| Stranding: | in layers |
| Wrapping: | PETP foil |
| Screen: | tinned copper braiding |
| Sheath material: | SABIX® |
| Sheath colour: | grey (RAL 7032) |

Outstanding features:

- halogen-free
- good EMC characteristics*
- no flame propagation
- flame retardant and self-extinguishing
- EAC approval

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

Technical data:

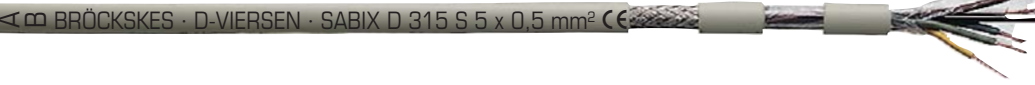
| | |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Peak operating voltage: | < 0,25 mm² = max. 350 V ≥ 0,25 mm² = max. 500 V |
| Testing voltage: | core/core 1500 V core/screen 1200 V |
| Min. bending radius | |
| fixed laying: | 5 x d |
| flexible application: | 10 x d |
| Temperature range | |
| fixed laying: | -30/+70 °C |
| flexible application: | -20/+70 °C |
| Halogen-free: | acc. to DIN VDE 0472 part 815 + IEC 60754-1 |
| Fire performance: | no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 |
| Corrosiveness of conflagration gases: | in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases |
| Smoke density: | acc. to IEC 61034 + EN 61034 |
| Flexibility: | good |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/17 |

| item no. | no. of cores x cross section n x mm² | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--------------------------------------------|-----------------------|---------------------------|----------------------------|
| 83150214 | 2 x 0,14 | 3,6 | 12,6 | 18 |
| 83150314 | 3 x 0,14 | 3,8 | 14,1 | 21 |
| 83150414 | 4 x 0,14 | 4,0 | 15,9 | 25 |
| 83150514 | 5 x 0,14 | 4,3 | 19,5 | 30 |
| 83150714 | 7 x 0,14 | 4,6 | 24,0 | 34 |
| 83150814 | 8 x 0,14 | 5,4 | 26,0 | 45 |
| 83151014 | 10 x 0,14 | 5,8 | 29,0 | 49 |
| 83151214 | 12 x 0,14 | 6,2 | 32,0 | 57 |
| 83151414 | 14 x 0,14 | 6,4 | 35,0 | 63 |
| 83151614 | 16 x 0,14 | 6,7 | 49,0 | 71 |
| 83151814 | 18 x 0,14 | 7,0 | 54,0 | 77 |
| 83152114 | 21 x 0,14 | 7,6 | 60,0 | 90 |
| 83152414 | 24 x 0,14 | 8,0 | 74,0 | 95 |
| 83152514 | 25 x 0,14 | 8,6 | 78,0 | 106 |
| 83152714 | 27 x 0,14 | 8,6 | 85,0 | 110 |
| 83153014 | 30 x 0,14 | 8,8 | 98,0 | 119 |
| 83153214 | 32 x 0,14 | 9,1 | 108,0 | 126 |
| 83153614 | 36 x 0,14 | 9,4 | 117,0 | 137 |
| 83154014 | 40 x 0,14 | 10,0 | 126,0 | 152 |
| 83154414 | 44 x 0,14 | 10,6 | 138,0 | 173 |
| 83155014 | 50 x 0,14 | 11,0 | 150,0 | 188 |
| 83155214 | 52 x 0,14 | 11,0 | 155,0 | 192 |
| 83156114 | 61 x 0,14 | 11,6 | 176,0 | 219 |
| 83150225 | 2 x 0,25 | 3,9 | 15,0 | 23 |
| 83150325 | 3 x 0,25 | 4,1 | 18,0 | 27 |
| 83150425 | 4 x 0,25 | 4,4 | 22,0 | 32 |
| 83150525 | 5 x 0,25 | 4,9 | 25,0 | 40 |
| 83150625 | 6 x 0,25 | 5,3 | 30,0 | 46 |
| 83150725 | 7 x 0,25 | 5,3 | 32,0 | 48 |
| 83150825 | 8 x 0,25 | 6,1 | 35,0 | 61 |

| item no. | no. of cores x cross section n x mm² | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--------------------------------------------|-----------------------|---------------------------|----------------------------|
| 83151025 | 10 x 0,25 | 6,6 | 42,0 | 67 |
| 83151225 | 12 x 0,25 | 6,8 | 50,0 | 75 |
| 83151425 | 14 x 0,25 | 7,1 | 64,0 | 83 |
| 83151625 | 16 x 0,25 | 7,4 | 71,0 | 94 |
| 83151825 | 18 x 0,25 | 7,8 | 80,0 | 104 |
| 83152125 | 21 x 0,25 | 8,8 | 105,0 | 129 |
| 83152425 | 24 x 0,25 | 9,3 | 115,0 | 137 |
| 83152525 | 25 x 0,25 | 9,5 | 117,0 | 143 |
| 83152725 | 27 x 0,25 | 9,5 | 120,0 | 150 |
| 83153025 | 30 x 0,25 | 9,8 | 132,0 | 161 |
| 83153225 | 32 x 0,25 | 10,1 | 138,0 | 171 |
| 83153625 | 36 x 0,25 | 10,7 | 152,0 | 200 |
| 83154025 | 40 x 0,25 | 11,3 | 164,0 | 223 |
| 83154425 | 44 x 0,25 | 11,8 | 180,0 | 235 |
| 83155025 | 50 x 0,25 | 12,7 | 222,0 | 270 |
| 83155225 | 52 x 0,25 | 12,7 | 234,0 | 276 |
| 83156125 | 61 x 0,25 | 13,4 | 287,0 | 314 |
| 83150234 | 2 x 0,34 | 4,5 | 17,0 | 30 |
| 83150334 | 3 x 0,34 | 4,9 | 21,0 | 37 |
| 83150434 | 4 x 0,34 | 5,3 | 25,0 | 44 |
| 83150534 | 5 x 0,34 | 5,7 | 30,0 | 54 |
| 83150734 | 7 x 0,34 | 6,4 | 42,0 | 67 |
| 83150834 | 8 x 0,34 | 7,2 | 45,0 | 84 |
| 83151034 | 10 x 0,34 | 7,8 | 63,0 | 92 |
| 83151234 | 12 x 0,34 | 8,0 | 70,0 | 103 |
| 83151434 | 14 x 0,34 | 8,8 | 78,0 | 125 |
| 83151634 | 16 x 0,34 | 9,2 | 87,0 | 138 |
| 83151834 | 18 x 0,34 | 9,7 | 108,0 | 154 |
| 83152134 | 21 x 0,34 | 10,7 | 127,0 | 190 |
| 83152434 | 24 x 0,34 | 11,3 | 140,0 | 206 |

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Marking for SABIX A D 315 S 83150550:

SAB BRÖCKSKES · D-VIERSEN · SABIX D 315 S 5 x 0,5 mm² CE

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| item no. | no. of cores x cross section n x mm ² | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--------------------------------------------------------|-----------------------|---------------------------|----------------------------|
| 83152734 | 27 x 0,34 | 11,5 | 151,0 | 222 |
| 83153034 | 30 x 0,34 | 11,9 | 162,0 | 239 |
| 83153234 | 32 x 0,34 | 12,7 | 171,0 | 265 |
| 83153834 | 36 x 0,34 | 13,2 | 188,0 | 293 |
| 83154034 | 40 x 0,34 | 14,0 | 208,0 | 325 |
| 83154434 | 44 x 0,34 | 14,6 | 223,0 | 343 |
| 83155034 | 50 x 0,34 | 15,8 | 248,0 | 414 |
| 83155234 | 52 x 0,34 | 15,8 | 273,0 | 424 |
| 83156134 | 61 x 0,34 | 16,7 | 316,0 | 476 |
| 83150250 | 2 x 0,50 | 5,0 | 18,9 | 37 |
| 83150350 | 3 x 0,50 | 5,2 | 23,7 | 43 |
| 83150450 | 4 x 0,50 | 5,6 | 29,8 | 52 |
| 83150550 | 5 x 0,50 | 6,3 | 35,7 | 66 |
| 83150750 | 7 x 0,50 | 6,8 | 46,6 | 80 |
| 83150850 | 8 x 0,50 | 7,8 | 54,2 | 102 |
| 83151050 | 10 x 0,50 | 8,8 | 65,7 | 118 |
| 83151250 | 12 x 0,50 | 9,0 | 75,3 | 132 |
| 83151450 | 14 x 0,50 | 9,4 | 84,7 | 147 |
| 83151650 | 16 x 0,50 | 9,9 | 96,2 | 166 |
| 83151850 | 18 x 0,50 | 10,6 | 118,1 | 196 |
| 83152150 | 21 x 0,50 | 11,6 | 136,9 | 230 |
| 83152450 | 24 x 0,50 | 12,6 | 151,5 | 255 |
| 83152750 | 27 x 0,50 | 12,8 | 166,0 | 276 |
| 83153050 | 30 x 0,50 | 13,2 | 183,7 | 301 |
| 83153250 | 32 x 0,50 | 13,7 | 193,5 | 319 |
| 83153650 | 36 x 0,50 | 14,2 | 216,9 | 353 |
| 83154450 | 44 x 0,50 | 16,4 | 276,6 | 449 |
| 83155050 | 50 x 0,50 | 17,0 | 313,1 | 500 |
| 83156150 | 61 x 0,50 | 18,0 | 366,8 | 579 |

| item no. | no. of cores x cross section n x mm ² | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--------------------------------------------------------|-----------------------|---------------------------|----------------------------|
| 83150275 | 2 x 0,75 | 5,6 | 25,0 | 46 |
| 83150375 | 3 x 0,75 | 6,1 | 32,3 | 58 |
| 83150475 | 4 x 0,75 | 6,6 | 40,6 | 70 |
| 83150575 | 5 x 0,75 | 7,1 | 49,1 | 85 |
| 83150775 | 7 x 0,75 | 7,7 | 66,1 | 106 |
| 83150875 | 8 x 0,75 | 9,2 | 75,1 | 141 |
| 83151075 | 10 x 0,75 | 10,0 | 91,4 | 154 |
| 83151275 | 12 x 0,75 | 10,5 | 118,1 | 187 |
| 83151475 | 14 x 0,75 | 11,0 | 132,6 | 208 |
| 83151675 | 16 x 0,75 | 11,5 | 151,2 | 236 |
| 83151875 | 18 x 0,75 | 12,4 | 165,9 | 271 |
| 83152175 | 21 x 0,75 | 13,6 | 191,1 | 315 |
| 83152475 | 24 x 0,75 | 14,4 | 217,0 | 341 |
| 83152775 | 27 x 0,75 | 14,7 | 238,8 | 372 |
| 83153075 | 30 x 0,75 | 15,8 | 280,9 | 439 |
| 83153275 | 32 x 0,75 | 16,3 | 295,7 | 460 |
| 83153675 | 36 x 0,75 | 16,9 | 324,9 | 504 |
| 83150280 | 2 x 1,00 | 5,8 | 29,9 | 52 |
| 83150380 | 3 x 1,00 | 6,3 | 40,5 | 66 |
| 83150480 | 4 x 1,00 | 6,8 | 51,4 | 81 |
| 83150580 | 5 x 1,00 | 7,4 | 62,4 | 99 |
| 83150680 | 6 x 1,00 | 8,0 | 73,4 | 116 |
| 83150780 | 7 x 1,00 | 8,0 | 83,0 | 123 |
| 83150285 | 2 x 1,50 | 6,5 | 40,6 | 70 |
| 83150385 | 3 x 1,50 | 6,8 | 56,2 | 81 |
| 83150485 | 4 x 1,50 | 7,4 | 72,0 | 101 |
| 83150585 | 5 x 1,50 | 8,6 | 87,8 | 135 |
| 83150685 | 6 x 1,50 | 9,3 | 103,9 | 159 |
| 83150785 | 7 x 1,50 | 9,3 | 118,3 | 168 |

Other dimensions and colours are possible on request.