

Halogen-free Cables

SABIX® D 315 FRNC

flexible data cable with improved fire performance, extended temperature range and overall copper screen



SEN · SABIX® D 315 FRNC 7 x 0,5 mm² CE



marking example:

SAB BRÜCKSKES · D-VIERSEN · SABIX® D 315 FRNC 7 x 0,5 mm² CE

Construction:

| | |
|-------------------------|--|
| Conductor: | bare copper strands with reference to VDE 0812 |
| Insulation: | SABIX® |
| Colour code: | with reference to DIN 47100 |
| Stranding: | in layers |
| Wrapping: | 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

Technical Data:

| | |
|--|--|
| Peak operating voltage: | < 0.25 mm ² = max. 350 V ≥ 0.25 mm ² = 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: | -40/+85 °C |
| flexible application: | -30/+85 °C |
| Halogen-free: | acc. to IEC 60754-1 + VDE 0482-754-1 |
| Fire performance: | no flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 cat. C resp. D, see chapter N „Technical data“. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2 |
| Corrosiveness of conflagration gases: | in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases |
| Smoke density: | acc. to IEC 61034 + VDE 0482-1034 |
| Flexibility: | good |
| 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 | outer-ø ± 10% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|------------------|---------------------|----------------------|
| 63150214 | 2 x 0,14 | 3,8 | 13,0 | 23 |
| 63150314 | 3 x 0,14 | 4,0 | 14,4 | 25 |
| 63150414 | 4 x 0,14 | 4,2 | 15,8 | 27 |
| 63150514 | 5 x 0,14 | 4,5 | 20,6 | 33 |
| 63150714 | 7 x 0,14 | 4,8 | 23,4 | 38 |
| 63150814 | 8 x 0,14 | 5,6 | 24,9 | 46 |
| 63151014 | 10 x 0,14 | 6,0 | 29,5 | 51 |
| 63151214 | 12 x 0,14 | 6,6 | 33,7 | 64 |
| 63151414 | 14 x 0,14 | 6,8 | 36,5 | 69 |
| 63151614 | 16 x 0,14 | 7,1 | 41,1 | 76 |
| 63151814 | 18 x 0,14 | 7,4 | 43,9 | 82 |
| 63152114 | 21 x 0,14 | 8,0 | 51,9 | 84 |
| 63152414 | 24 x 0,14 | 8,0 | 74,0 | 89 |
| 63152714 | 27 x 0,14 | 8,6 | 85,0 | 104 |
| 63153014 | 30 x 0,14 | 8,8 | 98,0 | 112 |
| 63153214 | 32 x 0,14 | 9,1 | 108,0 | 118 |
| 63153614 | 36 x 0,14 | 9,4 | 117,0 | 128 |
| 63154014 | 40 x 0,14 | 10,0 | 126,0 | 141 |
| 63154414 | 44 x 0,14 | 10,6 | 138,0 | 162 |
| 63155014 | 50 x 0,14 | 11,0 | 150,0 | 175 |
| 63155214 | 52 x 0,14 | 11,0 | 155,0 | 179 |
| 63156114 | 61 x 0,14 | 11,6 | 176,0 | 203 |
| 63150225 | 2 x 0,25 | 4,1 | 15,2 | 26 |
| 63150325 | 3 x 0,25 | 4,3 | 17,6 | 29 |
| 63150425 | 4 x 0,25 | 4,6 | 23,5 | 33 |
| 63150525 | 5 x 0,25 | 5,1 | 26,0 | 43 |
| 63150725 | 7 x 0,25 | 5,5 | 30,9 | 50 |
| 63150825 | 8 x 0,25 | 6,5 | 35,3 | 66 |
| 63151025 | 10 x 0,25 | 7,0 | 43,5 | 74 |

| item no. | no. of cores x cross section n x mm ² | outer-ø ± 10% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|------------------|---------------------|----------------------|
| 63151225 | 12 x 0,25 | 7,2 | 48,4 | 81 |
| 63151425 | 14 x 0,25 | 7,5 | 53,4 | 89 |
| 63151625 | 16 x 0,25 | 7,8 | 59,8 | 98 |
| 63151825 | 18 x 0,25 | 8,2 | 66,9 | 108 |
| 63152125 | 21 x 0,25 | 8,8 | 76,6 | 122 |
| 63152425 | 24 x 0,25 | 9,3 | 115,0 | 130 |
| 63152725 | 27 x 0,25 | 9,5 | 120,0 | 142 |
| 63153025 | 30 x 0,25 | 9,8 | 132,0 | 152 |
| 63153225 | 32 x 0,25 | 10,1 | 138,0 | 161 |
| 63153625 | 36 x 0,25 | 10,7 | 152,0 | 189 |
| 63154025 | 40 x 0,25 | 11,3 | 164,0 | 209 |
| 63154425 | 44 x 0,25 | 11,8 | 180,0 | 221 |
| 63155025 | 50 x 0,25 | 12,7 | 222,0 | 254 |
| 63155225 | 52 x 0,25 | 12,7 | 234,0 | 260 |
| 63156125 | 61 x 0,25 | 13,4 | 287,0 | 295 |
| 63150234 | 2 x 0,34 | 4,7 | 20,4 | 34 |
| 63150334 | 3 x 0,34 | 5,1 | 23,8 | 41 |
| 63150434 | 4 x 0,34 | 5,5 | 27,2 | 47 |
| 63150534 | 5 x 0,34 | 5,9 | 32,3 | 55 |
| 63150734 | 7 x 0,34 | 6,8 | 40,5 | 73 |
| 63150834 | 8 x 0,34 | 7,6 | 47,7 | 87 |
| 63151034 | 10 x 0,34 | 8,2 | 56,3 | 97 |
| 63151234 | 12 x 0,34 | 8,4 | 62,9 | 107 |
| 63151434 | 14 x 0,34 | 8,8 | 78,0 | 118 |
| 63151634 | 16 x 0,34 | 9,2 | 87,0 | 129 |
| 63151834 | 18 x 0,34 | 9,7 | 108,0 | 144 |
| 63152134 | 21 x 0,34 | 10,7 | 127,0 | 177 |
| 63152434 | 24 x 0,34 | 11,3 | 140,0 | 193 |
| 63152734 | 27 x 0,34 | 11,5 | 151,0 | 207 |

Continued on next page

Halogen-free Cables

SABIX® D 315 FRNC

flexible data cable with improved fire performance, extended temperature range and overall copper screen



SEN · SABIX® D 315 FRNC 7 x 0,5 mm² CE



marking example:

SAB BRÜCKSKES · D-VIERSEN · SABIX® D 315 FRNC 7 x 0,5 mm² CE

| item no. | no. of cores x cross section n x mm ² | outer-Ø ± 10% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|------------------------|---------------------------|----------------------------|
| 63153034 | 30 x 0,34 | 11,9 | 162,0 | 222 |
| 63153234 | 32 x 0,34 | 12,7 | 171,0 | 247 |
| 63153634 | 36 x 0,34 | 13,2 | 188,0 | 272 |
| 63154034 | 40 x 0,34 | 14,0 | 208,0 | 301 |
| 63154434 | 44 x 0,34 | 14,6 | 223,0 | 319 |
| 63155034 | 50 x 0,34 | 15,8 | 248,0 | 386 |
| 63155234 | 52 x 0,34 | 15,8 | 273,0 | 395 |
| 63156134 | 61 x 0,34 | 16,7 | 316,0 | 366 |
| 63150250 | 2 x 0,50 | 5,2 | 23,6 | 41 |
| 63150350 | 3 x 0,50 | 5,4 | 28,5 | 46 |
| 63150450 | 4 x 0,50 | 5,8 | 35,2 | 54 |
| 63150550 | 5 x 0,50 | 6,7 | 41,7 | 71 |
| 63150750 | 7 x 0,50 | 7,2 | 53,2 | 85 |
| 63150850 | 8 x 0,50 | 8,2 | 62,1 | 103 |
| 63151050 | 10 x 0,50 | 8,8 | 74,5 | 113 |
| 63151250 | 12 x 0,50 | 9,0 | 84,2 | 126 |
| 63151450 | 14 x 0,50 | 9,4 | 93,5 | 139 |
| 63151650 | 16 x 0,50 | 9,9 | 105,9 | 156 |
| 63151850 | 18 x 0,50 | 10,6 | 133,9 | 185 |
| 63152150 | 21 x 0,50 | 11,6 | 154,9 | 220 |
| 63152450 | 24 x 0,50 | 12,6 | 169,7 | 241 |
| 63152750 | 27 x 0,50 | 12,8 | 184,2 | 260 |
| 63153050 | 30 x 0,50 | 13,2 | 203,6 | 283 |
| 63153250 | 32 x 0,50 | 13,7 | 213,5 | 299 |
| 63153650 | 36 x 0,50 | 14,2 | 239,0 | 330 |
| 63154450 | 44 x 0,50 | 16,4 | 309,2 | 422 |
| 63155050 | 50 x 0,50 | 17,0 | 349,7 | 469 |
| 63156150 | 61 x 0,50 | 18,0 | 403,7 | 540 |

| item no. | no. of cores x cross section n x mm ² | outer-Ø ± 10% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|------------------------|---------------------------|----------------------------|
| 63150275 | 2 x 0,75 | 5,8 | 30,4 | 50 |
| 63150375 | 3 x 0,75 | 6,5 | 37,7 | 65 |
| 63150475 | 4 x 0,75 | 7,0 | 48,3 | 78 |
| 63150575 | 5 x 0,75 | 7,5 | 55,8 | 90 |
| 63150775 | 7 x 0,75 | 8,1 | 74,1 | 111 |
| 63150875 | 8 x 0,75 | 9,2 | 83,8 | 132 |
| 63151275 | 12 x 0,75 | 10,5 | 133,9 | 179 |
| 63151475 | 14 x 0,75 | 11,0 | 148,5 | 198 |
| 63151675 | 16 x 0,75 | 11,5 | 169,2 | 224 |
| 63151875 | 18 x 0,75 | 12,4 | 184,0 | 257 |
| 63152175 | 21 x 0,75 | 13,6 | 211,0 | 297 |
| 63152475 | 24 x 0,75 | 14,4 | 239,1 | 324 |
| 63152775 | 27 x 0,75 | 14,7 | 260,9 | 352 |
| 63153075 | 30 x 0,75 | 15,8 | 313,4 | 417 |
| 63153275 | 32 x 0,75 | 16,3 | 328,3 | 440 |
| 63153675 | 36 x 0,75 | 16,9 | 357,8 | 479 |
| 63150280 | 2 x 1,00 | 6,0 | 35,3 | 55 |
| 63150380 | 3 x 1,00 | 6,7 | 46,5 | 73 |
| 63150480 | 4 x 1,00 | 7,2 | 58,0 | 87 |
| 63150580 | 5 x 1,00 | 7,8 | 69,4 | 103 |
| 63150680 | 6 x 1,00 | 8,4 | 81,4 | 119 |
| 63150780 | 7 x 1,00 | 8,4 | 91,0 | 127 |
| 63150285 | 2 x 1,50 | 7,0 | 48,3 | 77 |
| 63150385 | 3 x 1,50 | 7,3 | 62,9 | 90 |
| 63150485 | 4 x 1,50 | 7,9 | 71,1 | 109 |
| 63150585 | 5 x 1,50 | 8,6 | 95,8 | 130 |
| 63150685 | 6 x 1,50 | 9,3 | 112,7 | 152 |
| 63150785 | 7 x 1,50 | 9,3 | 127,1 | 162 |

Other dimensions and colours are possible on request.