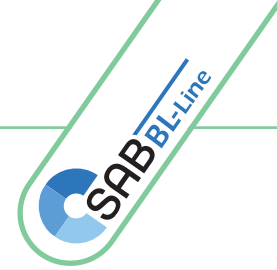


# Halogen-free Cables

## SABIX® BL 415 C FRNC

SABIX® BL - Flexible data cable with overall tinned copper shield



16 x 0.5mm<sup>2</sup> 60332-3-22 - 350V DNV•GL CE



Marking for SABIX® BL 415 C FRNC 64150550:

SAB BRÖCKSKES · D-VIERSEN · SABIX® BL 415 C FRNC 5 x 0.5mm<sup>2</sup> - IEC 60332-3-22 - 350V DNV•GL CE and current meter marking

### Construction:

|                         |   |
|-------------------------|---|
| <b>Conductor:</b>       | tinned copper strands with reference to VDE 0812 resp. IEC 60228, VDE 0295, class 5 |
| <b>Insulation:</b>      | special SABIX®  |
| <b>Color code:</b>      | DIN 47100, see page O/26  |
| <b>Stranding:</b>       | in layers   |
| <b>Wrapping:</b>        | PETP foil   |
| <b>Shielding:</b>       | tinned copper braiding  |
| <b>Jacket material:</b> | special SABIX® SHF 1 compound acc. to IEC 60092-360                                 |
| <b>Jacket color:</b>    | pigeon blue (RAL 5014)  |

### Technical data:

|                                       |   |
|---------------------------------------|---|
| <b>Peak operating voltage:</b>        | max. 350 V  |
| <b>Testing voltage:</b>               | conductor/conductor: 1500 V<br>conductor/shielding: 1200 V  |
| <b>Min. bending radius:</b>           | <i>fixed installation:</i> 5 x O.D.<br><i>flexible movement:</i> 10 x O.D.  |
| <b>Temperature range:</b>             | <i>static:</i> -40/+90°C<br><i>flexible:</i> -30/+90°C  |
| <b>Halogen-free:</b>                  | acc. to IEC 60754-1 + VDE 0482-754-1  |
| <b>Burning characteristics:</b>       | no flame propagation acc. to IEC 60332-3-22 + VDE 0482-332-3-22 cat. A. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2 |
| <b>Corrosivity:</b>                   | in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases   |
| <b>Smoke density:</b>                 | acc. to IEC 61034 + VDE 0482-1034   |
| <b>Flexibility:</b>                   | very good   |
| <b>Approvals:</b>                     | DNV-GL, CE, EAC, RoHS   |
| <b>Absence of harmful substances:</b> | acc. to RoHS directive of the European Union see page O/30  |

### Outstanding features:

- low smoke halogen-free (LSHF)
  - asbestos-free
  - good EMC characteristics\*
  - no flame propagation
  - flame retardant and self-extinguishing
  - flexible
  - for applications acc. to Hong Kong Convention ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
  - approvals:  
DNV-GL  
Russian Maritime Register of Shipping
- \*copper braiding should be connected circularly to optimize the EMC characteristics

**Possible on request:**

- bare copper strands
- alternative color code and jacket color

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| item no.  | no. of conductors incl. ground | nominal outer-ø inch ±5% | mm ±5% | cable weight ≈lbs/mft |
|---|--------------------------------|--------------------------|--------|-----------------------|
| <b>▶ 26 AWG (≈ 18/38) • 0.14 mm<sup>2</sup></b> |                                |                          |        |                       |
| 64150214  | 2                              | 0.161                    | 4.1    | 17                    |
| 64150314  | 3                              | 0.169                    | 4.3    | 19                    |
| 64150414  | 4                              | 0.181                    | 4.6    | 24                    |
| 64150514  | 5                              | 0.197                    | 5.0    | 27                    |
| 64150614  | 6                              | 0.209                    | 5.3    | 29                    |
| 64150714  | 7                              | 0.209                    | 5.3    | 30                    |
| 64150814  | 8                              | 0.244                    | 6.2    | 38                    |
| 64151214  | 12                             | 0.268                    | 6.8    | 47                    |
| 64151614  | 16                             | 0.295                    | 7.5    | 57                    |
| <b>▶ 24 AWG (≈ 14/34) • 0.25 mm<sup>2</sup></b> |                                |                          |        |                       |
| 64150225  | 2                              | 0.173                    | 4.4    | 22                    |
| 64150325  | 3                              | 0.181                    | 4.6    | 24                    |
| 64150425  | 4                              | 0.197                    | 5.0    | 28                    |
| 64150525  | 5                              | 0.213                    | 5.4    | 33                    |
| 64150625  | 6                              | 0.228                    | 5.8    | 36                    |
| 64150725  | 7                              | 0.228                    | 5.8    | 38                    |
| 64150825  | 8                              | 0.264                    | 6.7    | 48                    |
| 64151225  | 12                             | 0.295                    | 7.5    | 60                    |
| 64151625  | 16                             | 0.339                    | 8.6    | 79                    |

| item no.  | no. of conductors incl. ground | nominal outer-ø inch ±5% | mm ±5% | cable weight ≈lbs/mft |
|---|--------------------------------|--------------------------|--------|-----------------------|
| <b>▶ 22 AWG (≈ 7/30) • 1.00 mm<sup>2</sup></b>  |                                |                          |        |                       |
| 64150234  | 2                              | 0.189                    | 4.8    | 25                    |
| 64150334  | 3                              | 0.201                    | 5.1    | 28                    |
| 64150434  | 4                              | 0.217                    | 5.5    | 34                    |
| 64150534  | 5                              | 0.240                    | 6.1    | 41                    |
| 64150634  | 6                              | 0.260                    | 6.6    | 48                    |
| 64150734  | 7                              | 0.260                    | 6.6    | 50                    |
| 64150834  | 8                              | 0.295                    | 7.5    | 59                    |
| 64151234  | 12                             | 0.343                    | 8.7    | 81                    |
| 64151634  | 16                             | 0.374                    | 9.5    | 100                   |
| <b>▶ 20 AWG (≈ 16/32) • 0.50 mm<sup>2</sup></b> |                                |                          |        |                       |
| 64150250  | 2                              | 0.205                    | 5.2    | 29                    |
| 64150350  | 3                              | 0.217                    | 5.5    | 35                    |
| 64150450  | 4                              | 0.240                    | 6.1    | 43                    |
| 64150550  | 5                              | 0.260                    | 6.6    | 52                    |
| 64150650  | 6                              | 0.283                    | 7.2    | 57                    |
| 64150750  | 7                              | 0.283                    | 7.2    | 60                    |
| 64150850  | 8                              | 0.339                    | 8.6    | 78                    |
| 64151250  | 12                             | 0.374                    | 9.5    | 102                   |
| 64151650  | 16                             | 0.421                    | 10.7   | 135                   |

| item no.  | no. of conductors incl. ground | nominal outer-ø inch ±5% | mm ±5% | cable weight ≈lbs/mft |
|---|--------------------------------|--------------------------|--------|-----------------------|
| <b>▶ 19 AWG (≈ 23/32) • 0.75 mm<sup>2</sup></b> |                                |                          |        |                       |
| 64150275  | 2                              | 0.224                    | 5.7    | 35                    |
| 64150375  | 3                              | 0.244                    | 6.2    | 44                    |
| 64150475  | 4                              | 0.264                    | 6.7    | 52                    |
| 64150575  | 5                              | 0.287                    | 7.3    | 62                    |
| 64150675  | 6                              | 0.311                    | 7.9    | 71                    |
| 64150775  | 7                              | 0.311                    | 7.9    | 77                    |
| 64150875  | 8                              | 0.366                    | 9.3    | 95                    |
| 64151275  | 12                             | 0.425                    | 10.8   | 130                   |
| 64151675  | 16                             | 0.465                    | 11.8   | 166                   |

Other dimensions and colors are available on request

