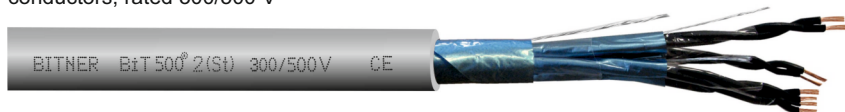


# BiT 500<sup>®</sup>2(St)



Flexible, individually and collectively screened, paired control cables with number coded conductors, rated 300/500 V



industrial application



internal application



EN 60332-1-2



high flexibility

## Technical data:

### Thermal parameters:

#### Operating temperature:

fixed installation: -40 °C to 80 °C  
flexible connections: -5 °C to 80 °C

### Electrical parameters:

Operating voltage:  $U_i/U = 300/500$  V

Test voltage (50 Hz): 3000 V

Insulation resistance: 20 MΩ x km

### Mechanical parameters:

#### Min. bending radius:

fixed installation: 5 x Ø  
flexible connections: 10 x Ø

## Design:

### Conductors:

bare copper conductors, multi-stranded class 5  
acc. to EN 60228

### Insulation:

PVC compound

### Core identification:

black, number coded conductors

### Core arrangement:

twisted screened pairs

### Individual screen:

aluminum backed polyester tape with tinned copper drain wire underneath each pair  
aluminum backed polyester tape with tinned copper drain wire

### Collective screen:

PVC compound, oil resistant (see table of chemical resistance), self-extinguishing and flame retardant  
(acc. to EN 60332-1-2); colour: grey

### Outer sheath:

## Application:

Flexible control cables designed for operation in control and protective devices as well as in control circuits. Double screening improves protection of transmitted signals against external electromagnetic field. Individual screening of pairs decreases signal interferences from adjacent pairs. They are suitable for fixed installations and for flexible connections in industrial devices, technological lines and machines operating in dry and damp rooms. Insulation compounds and conductor construction of BiT 500<sup>®</sup>2(St) cable enable easy and fast connections and ensure their high durability. Cables classified according to **EN 50575 (CPR)**.

| Cat. no. | n x 2 x mm <sup>2</sup> | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|-------------------------|----------------------|----------------------------------|
| SB0500   | 2x2x0,5                 | 7,7                  | 82                               |
| SB0501   | 3x2x0,5                 | 8,6                  | 96                               |
| SB0502   | 4x2x0,5                 | 9,7                  | 128                              |
| SB0503   | 5x2x0,5                 | 10,4                 | 158                              |
| SB0504   | 6x2x0,5                 | 10,8                 | 172                              |
| SB0505   | 7x2x0,5                 | 12,2                 | 205                              |
| SB0506   | 8x2x0,5                 | 12,7                 | 230                              |
| SB0507   | 10x2x0,5                | 13,8                 | 280                              |
| SB0508   | 12x2x0,5                | 14,7                 | 325                              |
| SB0509   | 14x2x0,5                | 15,5                 | 365                              |
| SB0510   | 16x2x0,5                | 17,0                 | 435                              |
| SB0511   | 18x2x0,5                | 17,7                 | 470                              |
| SB0512   | 20x2x0,5                | 18,4                 | 525                              |
| SB0513   | 24x2x0,5                | 18,9                 | 605                              |
| SB0514   | 2x2x0,75                | 8,4                  | 98                               |
| SB0515   | 3x2x0,75                | 9,8                  | 124                              |
| SB0516   | 4x2x0,75                | 10,5                 | 154                              |
| SB0517   | 5x2x0,75                | 11,5                 | 196                              |
| SB0518   | 6x2x0,75                | 11,9                 | 215                              |
| SB0519   | 7x2x0,75                | 13,3                 | 250                              |
| SB0520   | 8x2x0,75                | 14,1                 | 285                              |
| SB0521   | 10x2x0,75               | 15,0                 | 340                              |
| SB0522   | 12x2x0,75               | 16,4                 | 410                              |
| SB0523   | 14x2x0,75               | 17,4                 | 465                              |
| SB0524   | 16x2x0,75               | 18,8                 | 540                              |
| SB0525   | 18x2x0,75               | 19,5                 | 590                              |
| SB0526   | 20x2x0,75               | 20,1                 | 640                              |
| SB0527   | 24x2x0,75               | 20,7                 | 745                              |

| Cat. no. | n x 2 x mm <sup>2</sup> | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|-------------------------|----------------------|----------------------------------|
| SB0528   | 2x2x1,0                 | 9,3                  | 126                              |
| SB0529   | 3x2x1,0                 | 10,3                 | 150                              |
| SB0530   | 4x2x1,0                 | 11,2                 | 186                              |
| SB0531   | 5x2x1,0                 | 12,2                 | 240                              |
| SB0532   | 6x2x1,0                 | 12,6                 | 265                              |
| SB0533   | 7x2x1,0                 | 14,3                 | 310                              |
| SB0534   | 8x2x1,0                 | 14,9                 | 345                              |
| SB0535   | 10x2x1,0                | 16,4                 | 430                              |
| SB0536   | 12x2x1,0                | 17,4                 | 500                              |
| SB0537   | 14x2x1,0                | 18,7                 | 580                              |
| SB0538   | 16x2x1,0                | 19,9                 | 660                              |
| SB0539   | 18x2x1,0                | 20,8                 | 720                              |
| SB0540   | 20x2x1,0                | 21,6                 | 800                              |
| SB0541   | 24x2x1,0                | 22,2                 | 930                              |
| SB0542   | 2x2x1,5                 | 10,5                 | 158                              |
| SB0543   | 3x2x1,5                 | 12,0                 | 196                              |
| SB0544   | 4x2x1,5                 | 13,0                 | 245                              |
| SB0545   | 5x2x1,5                 | 14,2                 | 310                              |
| SB0546   | 6x2x1,5                 | 14,7                 | 345                              |
| SB0547   | 7x2x1,5                 | 16,8                 | 415                              |
| SB0548   | 8x2x1,5                 | 17,6                 | 460                              |
| SB0549   | 10x2x1,5                | 19,0                 | 560                              |
| SB0550   | 12x2x1,5                | 20,3                 | 655                              |
| SB0551   | 14x2x1,5                | 21,7                 | 760                              |
| SB0552   | 16x2x1,5                | 23,2                 | 870                              |
| SB0553   | 18x2x1,5                | 24,2                 | 945                              |
| SB0554   | 20x2x1,5                | 25,4                 | 1060                             |
| SB0555   | 24x2x1,5                | 26,1                 | 1240                             |

# BiT 500<sup>®</sup>2(St)

Flexible, individually and collectively screened, paired control cables with number coded conductors, rated 300/500 V

| Cat. no. | n x 2 x mm <sup>2</sup> | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|-------------------------|----------------------|----------------------------------|
| SB0556   | 2x2x2,5                 | 12,5                 | 220                              |
| SB0557   | 3x2x2,5                 | 14,2                 | 275                              |
| SB0558   | 4x2x2,5                 | 15,5                 | 340                              |
| SB0559   | 5x2x2,5                 | 17,1                 | 445                              |
| SB0560   | 6x2x2,5                 | 17,7                 | 490                              |
| SB0561   | 7x2x2,5                 | 20,0                 | 580                              |

| Cat. no. | n x 2 x mm <sup>2</sup> | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|-------------------------|----------------------|----------------------------------|
| SB0562   | 8x2x2,5                 | 20,9                 | 645                              |
| SB0563   | 10x2x2,5                | 22,7                 | 790                              |
| SB0564   | 12x2x2,5                | 24,2                 | 925                              |
| SB0565   | 14x2x2,5                | 26,1                 | 1090                             |
| SB0566   | 16x2x2,5                | 27,9                 | 1240                             |

\*Outer diameter tolerance: +/- 5%  
Cable Factory BITNER reserves the right to modify the specifications without prior notice  
Note: on customer's request other cross sections or number of cores can be produced;