

# BiT 500<sup>®</sup>2(St) BLACK



Control cables 300/500 V

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



## Technical data:

### Thermal parameters:

#### Operating temperature:

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

### Electrical parameters:

**Operating voltage:**  $U_0/U = 300/500$  V

**Test voltage (50 Hz):** 3000 V

**Insulation resistance:** 20 MΩ x km

### Mechanical parameters:

#### Min. bending radius:

fixed installation: 12 x Ø  
flexible connections: 6 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:

screened pairs twisted together

### Individual screen:

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

### Collective screen:

aluminum backed polyester tape with tinned copper drain wire

### Outer sheath:

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

## Application:

Flexible control cables designed for operation in control and protective devices as well as in control circuits. 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. Cables suitable for outdoor installation. Outer sheath is UV resistant. **Designed for direct burial in ground.** Insulation compounds and conductor construction of BiT 500<sup>®</sup>2(St) BLACK cables 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]
SB2900	2x2x0,5	9,3	114
SB2901	3x2x0,5	10,2	132
SB2902	4x2x0,5	10,9	158
SB2903	5x2x0,5	11,6	188
SB2904	6x2x0,5	12,0	204
SB2905	7x2x0,5	13,2	235
SB2906	8x2x0,5	13,7	260
SB2907	10x2x0,5	14,6	305
SB2908	12x2x0,5	15,5	350
SB2909	14x2x0,5	16,3	395
SB2910	16x2x0,5	18,0	475
SB2911	18x2x0,5	18,7	515
SB2912	20x2x0,5	19,4	570
SB2913	24x2x0,5	19,9	650
SB2914	2x2x0,75	10,0	132
SB2915	3x2x0,75	11,0	154
SB2916	4x2x0,75	11,7	184
SB2917	5x2x0,75	12,5	226
SB2918	6x2x0,75	12,9	245
SB2919	7x2x0,75	14,3	280
SB2920	8x2x0,75	14,9	310
SB2921	10x2x0,75	15,8	370
SB2922	12x2x0,75	17,4	450
SB2923	14x2x0,75	18,4	510
SB2924	16x2x0,75	19,8	585
SB2925	18x2x0,75	20,5	635

Cat. no.	n x 2 x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB2926	20x2x0,75	21,1	690
SB2927	24x2x0,75	21,7	795
SB2928	2x2x1,0	10,5	154
SB2929	3x2x1,0	11,5	180
SB2930	4x2x1,0	12,4	220
SB2931	5x2x1,0	13,2	270
SB2932	6x2x1,0	13,6	295
SB2933	7x2x1,0	15,1	335
SB2934	8x2x1,0	15,7	375
SB2935	10x2x1,0	17,4	470
SB2936	12x2x1,0	18,4	540
SB2937	14x2x1,0	19,7	625
SB2938	16x2x1,0	20,9	710
SB2939	18x2x1,0	21,8	770
SB2940	20x2x1,0	22,8	860
SB2941	24x2x1,0	23,4	995
SB2942	2x2x1,5	11,7	190
SB2943	3x2x1,5	13,0	226
SB2944	4x2x1,5	14,0	275
SB2945	5x2x1,5	15,0	340
SB2946	6x2x1,5	15,5	375
SB2947	7x2x1,5	17,8	455
SB2948	8x2x1,5	18,6	505
SB2949	10x2x1,5	20,0	610
SB2950	12x2x1,5	21,3	705
SB2951	14x2x1,5	22,9	820

# BiT 500<sup>®</sup> 2(St) BLACK

Flexible individually and collectively screened paired control cables for outdoor applications, 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]
SB2952	16x2x1,5	24,4	935
SB2953	18x2x1,5	25,4	1015
SB2954	20x2x1,5	26,8	1150
SB2955	24x2x1,5	27,5	1330
SB2956	2x2x2,5	13,5	255
SB2957	3x2x2,5	15,0	300
SB2958	4x2x2,5	16,3	370
SB2959	5x2x2,5	18,1	485

Cat. no.	n x 2 x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB2960	6x2x2,5	18,7	535
SB2961	7x2x2,5	21,0	625
SB2962	8x2x2,5	21,9	695
SB2963	10x2x2,5	23,9	855
SB2964	12x2x2,5	25,4	995
SB2965	14x2x2,5	27,5	1170
SB2966	16x2x2,5	29,3	1340

\*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