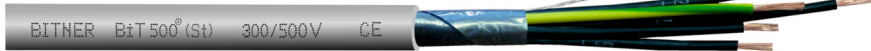


# BiT 500<sup>®</sup>(St)

Flexible, screened control cables,  
with number coded conductors, rated 300/500V



Control cables 300/500V



## 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 (50Hz): 3000V

### Mechanical parameters:

Insulation resistance: 20M $\Omega$ xkm

#### Min. bending radius:

fixed installation: 5x $\varnothing$   
flexible connections: 10x $\varnothing$

## Design:

### Conductors:

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

### Insulation:

special PVC

### Core identification:

black, number coded conductors

### Core arrangement:

cores twisted together or pairs twisted together

### Screen:

aluminum backed polyester tape with tinned copper drain wire

### Outer sheath:

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

## Application:

Flexible control cables designed for operation in control and protective devices as well as in control circuits. Common screen improves protection of transmitted signals against external electromagnetic field. 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>(St) cable enable easy and fast connections and ensure their high durability. Cables certified according to **EN 50575 (CPR)**.

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB0250	2x0,5	5,2	40
SB0251	3G0,5	5,5	44
SB0252	3x0,5	5,5	44
SB0253	4G0,5	6,0	52
SB0254	4x0,5	6,0	52
SB0255	5G0,5	6,5	64
SB0256	5x0,5	6,5	64
SB0257	6G0,5	7,2	76
SB0258	7G0,5	7,2	80
SB0259	7x0,5	7,2	80
SB0260	8G0,5	8,1	94
SB0261	8x0,5	8,1	94
SB0262	10G0,5	9,8	126
SB0263	12G0,5	9,8	134
SB0264	12x0,5	9,8	134
SB0265	14G0,5	10,2	150
SB0266	16G0,5	10,8	168
SB0267	18G0,5	11,5	192
SB0268	19G0,5	11,5	196
SB0269	21G0,5	12,0	215
SB0270	25G0,5	13,7	260
SB0271	27G0,5	13,7	270
SB0272	30G0,5	14,2	295
SB0273	34G0,5	15,2	335
SB0274	37G0,5	15,2	345
SB0275	40G0,5	16,1	390
SB0276	42G0,5	17,3	415
SB0277	50G0,5	18,2	485
SB0278	56G0,5	18,8	525
SB0279	61G0,5	19,3	560
SB0280	2x0,75	5,6	48
SB0281	3G0,75	5,9	54

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB0282	3x0,75	5,9	54
SB0283	4G0,75	6,5	66
SB0284	4x0,75	6,5	66
SB0285	5G0,75	7,2	81
SB0286	5x0,75	7,2	81
SB0287	6G0,75	7,8	96
SB0288	6x0,75	7,8	96
SB0289	7G0,75	7,8	102
SB0290	7x0,75	7,8	102
SB0291	8G0,75	9,2	126
SB0292	8x0,75	9,2	126
SB0293	10G0,75	10,6	159
SB0294	12G0,75	10,6	168
SB0295	12x0,75	10,6	168
SB0296	14G0,75	11,3	195
SB0297	16G0,75	11,9	220
SB0298	18G0,75	12,5	245
SB0299	19G0,75	12,5	250
SB0300	21G0,75	13,1	275
SB0301	25G0,75	14,9	335
SB0302	27G0,75	14,9	345
SB0303	30G0,75	15,4	375
SB0304	34G0,75	17,0	450
SB0305	37G0,75	17,0	465
SB0306	40G0,75	17,6	500
SB0307	42G0,75	19,1	540
SB0308	50G0,75	19,9	620
SB0309	56G0,75	20,5	675
SB0310	61G0,75	21,1	725
SB0311	2x1,0	5,9	54
SB0312	3G1,0	6,3	64
SB0313	3x1,0	6,3	64

**BiT 500<sup>®</sup>(St)**Flexible, screened control cables,  
with number coded conductors, rated 300/500V

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB0314	4G1,0	7,0	80
SB0315	4x1,0	7,0	80
SB0316	5G1,0	7,6	98
SB0317	5x1,0	7,6	98
SB0318	6G1,0	8,2	114
SB0319	6x1,0	8,2	114
SB0320	7G1,0	8,2	120
SB0321	7x1,0	8,2	120
SB0322	8G1,0	9,7	148
SB0323	10G1,0	11,5	194
SB0324	10x1,0	11,5	194
SB0325	12G1,0	11,5	210
SB0326	12x1,0	11,5	210
SB0327	14G1,0	12,0	235
SB0328	16G1,0	12,6	265
SB0329	18G1,0	13,2	295
SB0330	18x1,0	13,2	295
SB0331	19G1,0	13,2	300
SB0332	21G1,0	14,1	335
SB0333	25G1,0	16,3	415
SB0334	27G1,0	16,3	430
SB0335	30G1,0	16,8	470
SB0336	34G1,0	18,2	550
SB0337	37G1,0	18,2	565
SB0338	40G1,0	18,9	610
SB0339	42G1,0	20,3	650
SB0340	50G1,0	21,2	750
SB0341	56G1,0	22,0	830
SB0342	61G1,0	22,6	890
SB0343	2x1,5	6,9	74
SB0344	3G1,5	7,3	86
SB0345	3x1,5	7,3	86
SB0346	4G1,5	8,0	108
SB0347	4x1,5	8,0	108
SB0348	5G1,5	9,1	138
SB0349	5x1,5	9,1	138
SB0350	6G1,5	9,8	162
SB0351	6x1,5	9,8	162
SB0352	7G1,5	9,8	172
SB0353	7x1,5	9,8	172
SB0354	8G1,5	11,0	200
SB0355	10G1,5	13,1	260
SB0356	10x1,5	13,1	260
SB0357	12G1,5	13,1	280
SB0358	12x1,5	13,1	280
SB0359	14G1,5	13,9	325

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB0360	16G1,5	14,7	365
SB0361	18G1,5	15,4	410
SB0362	19G1,5	15,4	420
SB0363	21G1,5	16,6	475
SB0364	25G1,5	18,9	575
SB0365	27G1,5	18,9	595
SB0366	30G1,5	19,6	650
SB0367	34G1,5	21,0	750
SB0368	37G1,5	21,0	780
SB0369	40G1,5	22,0	850
SB0370	42G1,5	23,7	910
SB0371	50G1,5	25,1	1080
SB0372	56G1,5	25,9	1180
SB0373	61G1,5	26,6	1260
SB0374	2x2,5	8,0	96
SB0375	3G2,5	8,5	118
SB0376	3x2,5	8,5	118
SB0377	4G2,5	9,7	160
SB0378	4x2,5	9,7	160
SB0379	5G2,5	10,6	192
SB0380	5x2,5	10,6	192
SB0381	6G2,5	11,9	240
SB0382	6x2,5	11,9	240
SB0383	7G2,5	11,9	255
SB0384	7x2,5	11,9	255
SB0385	10G2,5	16,0	395
SB0386	12G2,5	16,0	430
SB0387	12x2,5	16,0	430
SB0388	14G2,5	16,8	485
SB0389	16G2,5	17,7	550
SB0390	18G2,5	18,8	625
SB0391	21G2,5	19,7	705
SB0392	25G2,5	22,5	855
SB0393	30G2,5	23,3	970
SB0394	34G2,5	25,5	1150
SB0395	37G2,5	25,5	1190
SB0396	42G2,5	28,5	1370
SB0397	50G2,5	29,8	1590
SB0398	2x4,0	9,9	150
SB0399	3G4,0	10,5	190
SB0400	3x4,0	10,5	190
SB0401	4G4,0	11,7	240
SB0402	5G4,0	12,7	300
SB0403	7G4,0	14,0	390
SB0404	10G4,0	18,9	600
SB0405	12G4,0	18,9	660

\*Outer diameter tolerance: +/-5%

Cable Factory BITNER reserves the right to modify the specifications without prior notice

G - cables with green/yellow earthing conductor

x- cables without green/yellow earthing conductor

Note: On customer's request other cross sections or number of cores can be produced

Cat. no.	nx2xmm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB0406	2x2x0,5	7,7	70
SB0407	3x2x0,5	8,6	80
SB0408	4x2x0,5	9,7	106
SB0409	5x2x0,5	10,4	130
SB0410	6x2x0,5	10,8	138
SB0411	7x2x0,5	12,2	166
SB0412	8x2x0,5	12,7	182
SB0413	10x2x0,5	13,8	220
SB0414	12x2x0,5	14,7	255
SB0415	14x2x0,5	15,5	290
SB0416	16x2x0,5	17,0	345
SB0417	18x2x0,5	17,7	370
SB0418	20x2x0,5	18,4	410
SB0419	24x2x0,5	18,9	470
SB0420	2x2x0,75	8,4	86
SB0421	3x2x0,75	9,8	106
SB0422	4x2x0,75	10,5	130
SB0423	5x2x0,75	11,5	168
SB0424	6x2x0,75	11,9	180
SB0425	7x2x0,75	13,3	205
SB0426	8x2x0,75	14,1	235
SB0427	10x2x0,75	15,0	280
SB0428	12x2x0,75	16,4	340
SB0429	14x2x0,75	17,4	380
SB0430	16x2x0,75	18,8	445
SB0431	18x2x0,75	19,5	480
SB0432	20x2x0,75	20,1	520
SB0433	24x2x0,75	20,7	600
SB0434	2x2x1,0	9,3	110
SB0435	3x2x1,0	10,3	126
SB0436	4x2x1,0	11,2	154
SB0437	5x2x1,0	12,2	196
SB0438	6x2x1,0	12,6	214

Cat. no.	nx2xmm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB0439	7x2x1,0	14,3	255
SB0440	8x2x1,0	14,9	280
SB0441	10x2x1,0	16,4	350
SB0442	12x2x1,0	17,4	405
SB0443	14x2x1,0	18,7	465
SB0444	16x2x1,0	19,9	530
SB0445	18x2x1,0	20,8	575
SB0446	20x2x1,0	21,6	635
SB0447	24x2x1,0	22,2	735
SB0448	2x2x1,5	10,5	142
SB0449	3x2x1,5	12,0	172
SB0450	4x2x1,5	13,0	210
SB0451	5x2x1,5	14,2	270
SB0452	6x2x1,5	14,7	295
SB0453	7x2x1,5	16,8	355
SB0454	8x2x1,5	17,6	395
SB0455	10x2x1,5	19,0	480
SB0456	12x2x1,5	20,3	555
SB0457	14x2x1,5	21,7	645
SB0458	16x2x1,5	23,2	735
SB0459	18x2x1,5	24,2	800
SB0460	20x2x1,5	25,4	895
SB0461	24x2x1,5	26,1	1035
SB0462	2x2x2,5	12,5	205
SB0463	3x2x2,5	14,2	245
SB0464	4x2x2,5	15,5	305
SB0465	5x2x2,5	17,1	400
SB0466	6x2x2,5	17,7	440
SB0467	7x2x2,5	20,0	515
SB0468	8x2x2,5	20,9	575
SB0469	10x2x2,5	22,7	705
SB0470	12x2x2,5	24,2	820
SB0471	14x2x2,5	26,1	960
SB0472	16x2x2,5	27,9	1100

\*Outer diameter tolerance: +/-5%  
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