

# BiT 500°C



Flexible, screened control cables 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:

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

## Design:

### Conductors:

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

### Insulation:

PVC compound

### Core identification:

black, number coded conductors, cables with protective

earth conductor marked G (e.g. 7G1,5)

### Core arrangement:

cores twisted together or pairs twisted together

### Screen:

tinned copper wire braid, coverage ≥ 85%

### Outer sheath:

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

## Application:

Flexible power and control cables designed for operation in control and protective devices as well as in control circuits. Also for power supply to low power portable and mobile devices. Common screen of tinned copper wire braid ensures very good protection against external electromagnetic field (screen attenuation ca. 50 dB). Cables are suitable for fixed installations and for flexible connections in industrial devices, technological lines and machines operating in dry and damp rooms. High flexibility of BiT 500°C cable simplifies installation whereas compounds used enable easy and fast connections and ensure their high durability. Cables classified according to EN 50575 (CPR).

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4020	2x0,5	5,4	44
SB4021	3G0,5	5,7	48
SB4022	3x0,5	5,7	48
SB4023	4G0,5	6,2	58
SB4024	4x0,5	6,2	58
SB4025	5G0,5	6,9	72
SB4026	5x0,5	6,9	72
SB4027	6G0,5	7,4	84
SB4028	7G0,5	7,4	88
SB4029	7x0,5	7,4	88
SB4030	8G0,5	8,3	110
SB4031	8x0,5	8,3	110
SB4032	10G0,5	10,0	145
SB4033	12G0,5	10,0	155
SB4034	12x0,5	10,0	155
SB4035	14G0,5	10,4	170
SB4036	16G0,5	11,0	190
SB4037	18G0,5	11,7	220
SB4038	19G0,5	11,8	220
SB4039	21G0,5	12,2	240

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4040	25G0,5	13,9	295
SB4041	27G0,5	13,9	300
SB4042	30G0,5	14,4	325
SB4043	34G0,5	15,4	370
SB4044	37G0,5	15,4	385
SB4045	40G0,5	16,3	425
SB4046	42G0,5	17,5	455
SB4047	50G0,5	18,2	525
SB4048	56G0,5	19,0	570
SB4049	61G0,5	19,5	610
SB4050	2x0,75	5,8	52
SB4051	3G0,75	6,1	58
SB4052	3x0,75	6,1	58
SB4053	4G0,75	6,9	74
SB4054	4x0,75	6,9	74
SB4055	5G0,75	7,4	88
SB4056	5x0,75	7,4	88
SB4057	6G0,75	8,2	112
SB4058	6x0,75	8,2	112
SB4059	7G0,75	8,2	118

# BIT 500<sup>®</sup>C

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Control cables 300/500 V

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4060	7x0,75	8,2	118
SB4061	8G0,75	9,4	142
SB4062	8x0,75	9,4	142
SB4063	10G0,75	10,8	180
SB4064	12G0,75	10,6	190
SB4065	12x0,75	10,6	190
SB4066	14G0,75	11,5	220
SB4067	16G0,75	12,1	245
SB4068	18G0,75	12,7	275
SB4069	19G0,75	12,7	280
SB4070	21G0,75	13,3	305
SB4071	25G0,75	15,1	370
SB4072	27G0,75	15,1	380
SB4073	30G0,75	16,0	425
SB4074	34G0,75	17,2	490
SB4075	37G0,75	17,2	505
SB4076	40G0,75	17,8	540
SB4077	42G0,75	19,3	590
SB4078	50G0,75	20,1	670
SB4079	56G0,75	20,7	725
SB4080	61G0,75	21,5	790
SB4081	2x1,0	6,1	57
SB4082	3G1,0	6,5	69
SB4083	3x1,0	6,5	69
SB4084	4G1,0	7,0	84
SB4085	4x1,0	7,0	84
SB4086	5G1,0	8,0	111
SB4087	5x1,0	8,0	111
SB4088	6G1,0	8,6	129
SB4089	6x1,0	8,6	129
SB4090	7G1,0	8,6	138
SB4091	7x1,0	8,6	138
SB4092	8G1,0	9,9	165
SB4093	10G1,0	11,5	215
SB4094	10x1,0	11,5	215
SB4095	12G1,0	11,5	230
SB4096	12x1,0	11,5	230
SB4097	14G1,0	12,2	260
SB4098	16G1,0	12,8	290
SB4099	18G1,0	13,6	330
SB4100	18x1,0	13,6	330
SB4101	19G1,0	13,6	335
SB4102	21G1,0	14,3	365
SB4103	25G1,0	16,5	455
SB4104	27G1,0	16,5	465
SB4105	30G1,0	17,0	505
SB4106	34G1,0	18,4	590
SB4107	37G1,0	18,4	610
SB4108	40G1,0	19,1	655
SB4109	42G1,0	20,5	700
SB4110	50G1,0	21,6	815
SB4111	56G1,0	22,2	885
SB4112	61G1,0	22,8	950
SB4113	2x1,5	7,1	88
SB4114	3G1,5	7,5	99
SB4115	3x1,5	7,5	99
SB4116	4G1,5	8,4	122
SB4117	4x1,5	8,4	122

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4118	5G1,5	9,5	156
SB4119	5x1,5	9,5	156
SB4120	6G1,5	10,2	182
SB4121	6x1,5	10,2	182
SB4122	7G1,5	10,2	192
SB4123	7x1,5	10,2	192
SB4124	8G1,5	11,0	220
SB4125	10G1,5	13,3	290
SB4126	10x1,5	13,3	290
SB4127	12G1,5	13,3	310
SB4128	12x1,5	13,3	310
SB4129	14G1,5	14,1	355
SB4130	16G1,5	14,9	410
SB4131	18G1,5	16,0	455
SB4132	19G1,5	16,0	465
SB4133	21G1,5	16,8	515
SB4134	25G1,5	19,1	620
SB4135	27G1,5	19,1	640
SB4136	30G1,5	19,8	700
SB4137	34G1,5	21,4	810
SB4138	37G1,5	21,4	840
SB4139	40G1,5	22,2	910
SB4140	42G1,5	23,9	970
SB4141	50G1,5	25,3	1140
SB4142	56G1,5	26,1	1240
SB4143	61G1,5	26,8	1330
SB4144	2x2,5	8,4	112
SB4145	3G2,5	9,3	144
SB4146	3x2,5	9,3	144
SB4147	4G2,5	10,1	180
SB4148	4x2,5	10,1	180
SB4149	5G2,5	11,0	216
SB4150	5x2,5	11,0	216
SB4151	6G2,5	12,1	265
SB4152	6x2,5	12,1	265
SB4153	7G2,5	12,1	280
SB4154	7x2,5	12,1	280
SB4155	10G2,5	16,2	430
SB4156	12G2,5	16,2	465
SB4157	12x2,5	16,2	465
SB4158	14G2,5	17,0	525
SB4159	16G2,5	17,9	590
SB4160	18G2,5	19,0	665
SB4161	21G2,5	19,9	750
SB4162	25G2,5	22,7	910
SB4163	30G2,5	23,5	1030
SB4164	34G2,5	25,7	1210
SB4165	37G2,5	25,7	1260
SB4166	42G2,5	28,9	1470
SB4167	50G2,5	30,2	1700
SB4168	2x4,0	10,3	170
SB4169	3G4,0	10,9	200
SB4170	3x4,0	10,9	200
SB4171	4G4,0	12,1	270
SB4172	5G4,0	13,2	325
SB4173	7G4,0	14,5	425
SB4174	10G4,0	19,5	645
SB4175	12G4,0	19,5	705

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## paired cables

Cat. no.	n x 2 x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4176	2x2x0,5	7,7	80
SB4177	3x2x0,5	9,2	105
SB4178	4x2x0,5	9,9	125
SB4179	5x2x0,5	10,6	155
SB4180	6x2x0,5	11,0	165
SB4181	7x2x0,5	12,4	195
SB4182	8x2x0,5	12,9	210
SB4183	10x2x0,5	14,0	255
SB4184	12x2x0,5	14,9	290
SB4185	14x2x0,5	16,1	340
SB4186	16x2x0,5	17,2	385
SB4187	18x2x0,5	17,9	415
SB4188	20x2x0,5	18,6	455
SB4189	24x2x0,5	19,1	515
SB4190	2x2x0,75	8,6	102
SB4191	3x2x0,75	10,0	126
SB4192	4x2x0,75	10,7	152
SB4193	5x2x0,75	11,7	192
SB4194	6x2x0,75	12,1	205
SB4195	7x2x0,75	13,7	245
SB4196	8x2x0,75	14,3	270
SB4197	10x2x0,75	15,2	315
SB4198	12x2x0,75	16,6	375
SB4199	14x2x0,75	17,6	425
SB4200	16x2x0,75	19,0	490
SB4201	18x2x0,75	19,7	530
SB4202	20x2x0,75	20,3	570
SB4203	24x2x0,75	20,9	655
SB4204	2x2x1,0	9,5	126
SB4205	3x2x1,0	10,5	146
SB4206	4x2x1,0	11,6	182
SB4207	5x2x1,0	12,4	225
SB4208	6x2x1,0	12,8	240
SB4209	7x2x1,0	14,5	285

Cat. no.	n x 2 x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4210	8x2x1,0	15,1	315
SB4211	10x2x1,0	16,6	385
SB4212	12x2x1,0	17,6	445
SB4213	14x2x1,0	18,9	510
SB4214	16x2x1,0	20,1	580
SB4215	18x2x1,0	21,0	625
SB4216	20x2x1,0	21,8	690
SB4217	24x2x1,0	22,4	790
SB4218	2x2x1,5	10,7	162
SB4219	3x2x1,5	12,2	196
SB4220	4x2x1,5	13,2	240
SB4221	5x2x1,5	14,4	300
SB4222	6x2x1,5	14,9	325
SB4223	7x2x1,5	17,0	395
SB4224	8x2x1,5	17,8	435
SB4225	10x2x1,5	19,2	525
SB4226	12x2x1,5	20,5	605
SB4227	14x2x1,5	21,9	695
SB4228	16x2x1,5	23,4	795
SB4229	18x2x1,5	24,8	885
SB4230	20x2x1,5	25,6	960
SB4231	24x2x1,5	26,3	1105
SB4232	2x2x2,5	12,7	230
SB4233	3x2x2,5	14,4	280
SB4234	4x2x2,5	16,1	355
SB4235	5x2x2,5	17,3	440
SB4236	6x2x2,5	17,9	480
SB4237	7x2x2,5	20,2	565
SB4238	8x2x2,5	21,1	625
SB4239	10x2x2,5	22,9	760
SB4240	12x2x2,5	24,4	880
SB4241	14x2x2,5	26,3	1030
SB4242	16x2x2,5	28,1	1175

\*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