

BiT 500[®](St)H

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



Industrial application



Internal application



EN 60332-1-2



EN 60332-3



oxygen index



halogen-free
EN 60754



low smoke emission
EN 61034



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: $U_0/U=300/500$ V

Test voltage (50Hz): 3000V

Mechanical parameters:

Insulation resistance: 20M Ω 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 halogen-free 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:

aluminum backed polyester tape with tinned copper drain wire

Outer sheath:

special halogen-free compound, self-extinguishing and flame retardant (acc. to EN 60332-1-2, EN 60332-3-24, cat. C); colour: grey

Application:

Flexible, halogen-free power and 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. Designed especially for installation in industrial areas with increased fire safety requirements (limited flame propagation). They are suitable for fixed installations and for flexible connections in industrial devices, technological lines and machines operating in dry and damp rooms. Insulation materials and conductor construction in BiT 500[®](St)H cable enable easy and fast connections and ensure their high durability. Cables are halogen-free, low smoke and significantly limit flame propagation. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4250	2x0,5	5,2	40
SB4251	3G0,5	5,5	44
SB4252	3x0,5	5,5	44
SB4253	4G0,5	6,0	52
SB4254	4x0,5	6,0	52
SB4255	5G0,5	6,5	64
SB4256	5x0,5	6,5	64
SB4257	6G0,5	7,2	76
SB4258	7G0,5	7,2	80
SB4259	7x0,5	7,2	80
SB4260	8G0,5	8,1	94
SB4261	8x0,5	8,1	94
SB4262	10G0,5	9,8	126
SB4263	12G0,5	9,8	134
SB4264	12x0,5	9,8	134
SB4265	14G0,5	10,2	150
SB4266	16G0,5	10,8	168
SB4267	18G0,5	11,5	192
SB4268	19G0,5	11,5	196
SB4269	21G0,5	12,0	215
SB4270	25G0,5	13,7	260
SB4271	27G0,5	13,7	270
SB4272	30G0,5	14,2	295
SB4273	34G0,5	15,2	335
SB4274	37G0,5	15,2	345
SB4275	40G0,5	16,1	390
SB4276	42G0,5	17,3	415
SB4277	50G0,5	18,2	485

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4278	56G0,5	18,8	525
SB4279	61G0,5	19,3	560
SB4280	2x0,75	5,6	48
SB4281	3G0,75	5,9	54
SB4282	3x0,75	5,9	54
SB4283	4G0,75	6,5	66
SB4284	4x0,75	6,5	66
SB4285	5G0,75	7,2	81
SB4286	5x0,75	7,2	81
SB4287	6G0,75	7,8	96
SB4288	6x0,75	7,8	96
SB4289	7G0,75	7,8	102
SB4290	7x0,75	7,8	102
SB4291	8G0,75	9,2	126
SB4292	8x0,75	9,2	126
SB4293	10G0,75	10,6	159
SB4294	12G0,75	10,6	168
SB4295	12x0,75	10,6	168
SB4296	14G0,75	11,3	195
SB4297	16G0,75	11,9	220
SB4298	18G0,75	12,5	245
SB4299	19G0,75	12,5	250
SB4300	21G0,75	13,1	275
SB4301	25G0,75	14,9	335
SB4302	27G0,75	14,9	345
SB4303	30G0,75	15,4	375
SB4304	34G0,75	17,0	450
SB4305	37G0,75	17,0	465

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Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4306	40G0,75	17,6	500
SB4307	42G0,75	19,1	540
SB4308	50G0,75	19,9	620
SB4309	56G0,75	20,5	675
SB4310	61G0,75	21,1	725
SB4311	2x1,0	5,9	54
SB4312	3G1,0	6,3	64
SB4313	3x1,0	6,3	64
SB4314	4G1,0	7,0	80
SB4315	4x1,0	7,0	80
SB4316	5G1,0	7,6	98
SB4317	5x1,0	7,6	98
SB4318	6G1,0	8,2	114
SB4319	6x1,0	8,2	114
SB4320	7G1,0	8,2	120
SB4321	7x1,0	8,2	120
SB4322	8G1,0	9,7	148
SB4323	10G1,0	11,5	194
SB4324	10x1,0	11,5	194
SB4325	12G1,0	11,5	210
SB4326	12x1,0	11,5	210
SB4327	14G1,0	12,0	235
SB4328	16G1,0	12,6	265
SB4329	18G1,0	13,2	295
SB4330	18x1,0	13,2	295
SB4331	19G1,0	13,2	300
SB4332	21G1,0	14,1	335
SB4333	25G1,0	16,3	415
SB4334	27G1,0	16,3	430
SB4335	30G1,0	16,8	470
SB4336	34G1,0	18,2	550
SB4337	37G1,0	18,2	565
SB4338	40G1,0	18,9	610
SB4339	42G1,0	20,3	650
SB4340	50G1,0	21,2	750
SB4341	56G1,0	22,0	830
SB4342	61G1,0	22,6	890
SB4343	2x1,5	6,9	74
SB4344	3G1,5	7,3	86
SB4345	3x1,5	7,3	86
SB4346	4G1,5	8,0	108
SB4347	4x1,5	8,0	108
SB4348	5G1,5	9,1	138
SB4349	5x1,5	9,1	138
SB4350	6G1,5	9,8	162
SB4351	6x1,5	9,8	162
SB4352	7G1,5	9,8	172
SB4353	7x1,5	9,8	172
SB4354	8G1,5	11,0	200
SB4355	10G1,5	13,1	260

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4356	10x1,5	13,1	260
SB4357	12G1,5	13,1	280
SB4358	12x1,5	13,1	280
SB4359	14G1,5	13,9	325
SB4360	16G1,5	14,7	365
SB4361	18G1,5	15,4	410
SB4362	19G1,5	15,4	420
SB4363	21G1,5	16,6	475
SB4364	25G1,5	18,9	575
SB4365	27G1,5	18,9	595
SB4366	30G1,5	19,6	650
SB4367	34G1,5	21,0	750
SB4368	37G1,5	21,0	780
SB4369	40G1,5	22,0	850
SB4370	42G1,5	23,7	910
SB4371	50G1,5	25,1	1080
SB4372	56G1,5	25,9	1180
SB4373	61G1,5	26,6	1260
SB4374	2x2,5	8,0	96
SB4375	3G2,5	8,5	118
SB4376	3x2,5	8,5	118
SB4377	4G2,5	9,7	160
SB4378	4x2,5	9,7	160
SB4379	5G2,5	10,6	192
SB4380	5x2,5	10,6	192
SB4381	6G2,5	11,9	240
SB4382	6x2,5	11,9	240
SB4383	7G2,5	11,9	255
SB4384	7x2,5	11,9	255
SB4385	10G2,5	16,0	395
SB4386	12G2,5	16,0	430
SB4387	12x2,5	16,0	430
SB4388	14G2,5	16,8	485
SB4389	16G2,5	17,7	550
SB4390	18G2,5	18,8	625
SB4391	21G2,5	19,7	705
SB4392	25G2,5	22,5	855
SB4393	30G2,5	23,3	970
SB4394	34G2,5	25,5	1150
SB4395	37G2,5	25,5	1190
SB4396	42G2,5	28,5	1370
SB4397	50G2,5	29,8	1590
SB4398	2x4,0	9,9	150
SB4399	3G4,0	10,5	190
SB4400	3x4,0	10,5	190
SB4401	4G4,0	11,7	240
SB4402	5G4,0	12,7	300
SB4403	7G4,0	14,0	390
SB4404	10G4,0	18,9	600
SB4405	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

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paired cables

Cat. no.	nx2xmm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4406	2x2x0,5	7,7	70
SB4407	3x2x0,5	8,6	80
SB4408	4x2x0,5	9,7	106
SB4409	5x2x0,5	10,4	130
SB4410	6x2x0,5	10,8	138
SB4411	7x2x0,5	12,2	166
SB4412	8x2x0,5	12,7	182
SB4413	10x2x0,5	13,8	220
SB4414	12x2x0,5	14,7	255
SB4415	14x2x0,5	15,5	290
SB4416	16x2x0,5	17,0	345
SB4417	18x2x0,5	17,7	370
SB4418	20x2x0,5	18,4	410
SB4419	24x2x0,5	18,9	470
SB4420	2x2x0,75	8,4	86
SB4421	3x2x0,75	9,8	106
SB4422	4x2x0,75	10,5	130
SB4423	5x2x0,75	11,5	168
SB4424	6x2x0,75	11,9	180
SB4425	7x2x0,75	13,3	205
SB4426	8x2x0,75	14,1	235
SB4427	10x2x0,75	15,0	280
SB4428	12x2x0,75	16,4	340
SB4429	14x2x0,75	17,4	380
SB4430	16x2x0,75	18,8	445
SB4431	18x2x0,75	19,5	480
SB4432	20x2x0,75	20,1	520
SB4433	24x2x0,75	20,7	600
SB4434	2x2x1,0	9,3	110
SB4435	3x2x1,0	10,3	126
SB4436	4x2x1,0	11,2	154
SB4437	5x2x1,0	12,2	196
SB4438	6x2x1,0	12,6	214

Cat. no.	nx2xmm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4439	7x2x1,0	14,3	255
SB4440	8x2x1,0	14,9	280
SB4441	10x2x1,0	16,4	350
SB4442	12x2x1,0	17,4	405
SB4443	14x2x1,0	18,7	465
SB4444	16x2x1,0	19,9	530
SB4445	18x2x1,0	20,8	575
SB4446	20x2x1,0	21,6	635
SB4447	24x2x1,0	22,2	735
SB4448	2x2x1,5	10,5	142
SB4449	3x2x1,5	12,0	172
SB4450	4x2x1,5	13,0	210
SB4451	5x2x1,5	14,2	270
SB4452	6x2x1,5	14,7	295
SB4453	7x2x1,5	16,8	355
SB4454	8x2x1,5	17,6	395
SB4455	10x2x1,5	19,0	480
SB4456	12x2x1,5	20,3	555
SB4457	14x2x1,5	21,7	645
SB4458	16x2x1,5	23,2	735
SB4459	18x2x1,5	24,2	800
SB4460	20x2x1,5	25,4	895
SB4461	24x2x1,5	26,1	1035
SB4462	2x2x2,5	12,5	205
SB4463	3x2x2,5	14,2	245
SB4464	4x2x2,5	15,5	305
SB4465	5x2x2,5	17,1	400
SB4466	6x2x2,5	17,7	440
SB4467	7x2x2,5	20,0	515
SB4468	8x2x2,5	20,9	575
SB4469	10x2x2,5	22,7	705
SB4470	12x2x2,5	24,2	820
SB4471	14x2x2,5	26,1	960
SB4472	16x2x2,5	27,9	1100

*Outer diameter tolerance: +/-5%

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