

BiT 500[®]C BLACK



Control cables 300/500 V

Flexible, screened 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: $U_i/U = 300/500$ 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:

inved 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), UV resistant; colour: black

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. Cables suitable for outdoor installation - outer sheath is UV resistant. **Cables designed also for direct burial in ground.** Insulation, sheathing compounds and conductor construction of BiT 500°C BLACK cables enable easy and fast connections and ensure their high durability. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB3170	2x0,5	7,2	72
SB3171	3G0,5	7,5	76
SB3172	3x0,5	7,5	76
SB3173	4G0,5	8,0	88
SB3174	4x0,5	8,0	88
SB3175	5G0,5	8,5	102
SB3176	5x0,5	8,5	102
SB3177	6G0,5	9,0	114
SB3178	7G0,5	9,0	118
SB3179	7x0,5	9,0	118
SB3180	8G0,5	9,9	144
SB3181	8x0,5	9,9	144
SB3182	10G0,5	11,2	176
SB3183	12G0,5	11,2	184
SB3184	12x0,5	11,2	184
SB3185	14G0,5	11,6	205
SB3186	16G0,5	12,2	225
SB3187	18G0,5	12,7	245
SB3188	19G0,5	12,5	250
SB3189	21G0,5	13,2	270
SB3190	25G0,5	14,7	320
SB3191	27G0,5	14,7	330

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB3192	30G0,5	15,2	355
SB3193	34G0,5	16,2	400
SB3194	37G0,5	16,2	415
SB3195	40G0,5	17,3	465
SB3196	42G0,5	18,5	500
SB3197	50G0,5	19,2	570
SB3198	56G0,5	20,0	615
SB3199	61G0,5	20,5	655
SB3200	2x0,75	7,6	80
SB3201	3G0,75	7,9	88
SB3202	3x0,75	7,9	88
SB3203	4G0,75	8,5	102
SB3204	4x0,75	8,5	102
SB3205	5G0,75	9,0	120
SB3206	5x0,75	9,0	120
SB3207	6G0,75	9,8	146
SB3208	6x0,75	9,8	146
SB3209	7G0,75	9,8	150
SB3210	7x0,75	9,8	150
SB3211	8G0,75	10,6	170
SB3212	8x0,75	10,6	170
SB3213	10G0,75	12,0	215

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Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB3214	12G0,75	11,8	220
SB3215	12x0,75	11,8	220
SB3216	14G0,75	12,5	250
SB3217	16G0,75	13,1	275
SB3218	18G0,75	13,7	305
SB3219	19G0,75	13,7	310
SB3220	21G0,75	14,3	335
SB3221	25G0,75	15,9	400
SB3222	27G0,75	15,9	410
SB3223	30G0,75	17,0	465
SB3224	34G0,75	18,2	530
SB3225	37G0,75	18,2	545
SB3226	40G0,75	18,8	585
SB3227	42G0,75	20,3	635
SB3228	50G0,75	21,1	720
SB3229	56G0,75	21,7	775
SB3230	61G0,75	22,7	850
SB3231	2x1,0	7,9	88
SB3232	3G1,0	8,3	98
SB3233	3x1,0	8,3	98
SB3234	4G1,0	8,6	114
SB3235	4x1,0	8,6	114
SB3236	5G1,0	9,6	144
SB3237	5x1,0	9,6	144
SB3238	6G1,0	10,2	166
SB3239	6x1,0	10,2	166
SB3240	7G1,0	10,2	172
SB3241	7x1,0	10,2	172
SB3242	8G1,0	11,1	196
SB3243	10G1,0	12,5	245
SB3244	10x1,0	12,5	245
SB3245	12G1,0	12,5	260
SB3246	12x1,0	12,5	260
SB3247	14G1,0	13,2	290
SB3248	16G1,0	13,8	320
SB3249	18G1,0	14,4	355
SB3250	18x1,0	14,4	355
SB3251	19G1,0	14,4	360
SB3252	21G1,0	15,1	395
SB3253	25G1,0	17,5	495
SB3254	27G1,0	17,5	505
SB3255	30G1,0	18,0	550
SB3256	34G1,0	19,4	635
SB3257	37G1,0	19,4	655
SB3258	40G1,0	20,1	700
SB3259	42G1,0	21,5	750
SB3260	50G1,0	22,8	875
SB3261	56G1,0	23,4	945
SB3262	61G1,0	24,0	1010
SB3263	2x1,5	8,7	108
SB3264	3G1,5	9,1	122
SB3265	3x1,5	9,1	122
SB3266	4G1,5	10,0	156
SB3267	4x1,5	10,0	156
SB3268	5G1,5	10,7	184
SB3269	5x1,5	10,7	184

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB3270	6G1,5	11,4	215
SB3271	6x1,5	11,4	215
SB3272	7G1,5	11,4	225
SB3273	7x1,5	11,4	225
SB3274	8G1,5	12,2	255
SB3275	10G1,5	14,3	320
SB3276	10x1,5	14,3	320
SB3277	12G1,5	14,3	340
SB3278	12x1,5	14,3	340
SB3279	14G1,5	14,9	380
SB3280	16G1,5	15,7	430
SB3281	18G1,5	17,0	495
SB3282	19G1,5	17,0	505
SB3283	21G1,5	17,8	555
SB3284	25G1,5	20,1	665
SB3285	27G1,5	20,1	685
SB3286	30G1,5	20,8	745
SB3287	34G1,5	22,6	875
SB3288	37G1,5	22,6	905
SB3289	40G1,5	23,4	970
SB3290	42G1,5	25,1	1040
SB3291	50G1,5	26,7	1230
SB3292	56G1,5	27,5	1330
SB3293	61G1,5	28,2	1420
SB3294	2x2,5	10,0	146
SB3295	3G2,5	10,5	172
SB3296	3x2,5	10,5	172
SB3297	4G2,5	11,3	210
SB3298	4x2,5	11,3	210
SB3299	5G2,5	12,2	250
SB3300	5x2,5	12,2	250
SB3301	6G2,5	13,1	290
SB3302	6 x2,5	13,1	290
SB3303	7G2,5	13,1	310
SB3304	7x2,5	13,1	310
SB3305	10G2,5	17,2	470
SB3306	12G2,5	17,2	500
SB3307	12x2,5	17,2	500
SB3308	14G2,5	18,0	565
SB3309	16G2,5	18,9	635
SB3310	18G2,5	20,0	715
SB3311	21G2,5	20,9	800
SB3312	25G2,5	23,9	975
SB3313	30G2,5	24,7	1100
SB3314	34G2,5	27,1	1300
SB3315	37G2,5	27,1	1340
SB3316	42G2,5	30,3	1570
SB3317	50G2,5	31,6	1800
SB3318	2x4,0	11,5	205
SB3319	3G4,0	12,1	235
SB3320	3x4,0	12,1	235
SB3321	4G4,0	13,1	300
SB3322	5G4,0	14,2	360
SB3323	7G4,0	15,3	450
SB3324	10G4,0	20,5	695
SB3325	12G4,0	20,5	755

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paired cables

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB3326	2x2x0,5	9,3	110
SB3327	3x2x0,5	10,4	134
SB3328	4x2x0,5	11,1	154
SB3329	5x2x0,5	11,8	184
SB3330	6x2x0,5	12,2	194
SB3331	7x2x0,5	13,4	225
SB3332	8x2x0,5	13,9	245
SB3333	10x2x0,5	14,8	280
SB3334	12x2x0,5	15,7	320
SB3335	14x2x0,5	17,1	380
SB3336	16x2x0,5	18,2	425
SB3337	18x2x0,5	18,9	455
SB3338	20x2x0,5	19,6	500
SB3339	24x2x0,5	20,1	560
SB3340	2x2x0,75	10,2	138
SB3341	3x2x0,75	11,2	156
SB3342	4x2x0,75	11,9	184
SB3343	5x2x0,75	12,7	225
SB3344	6x2x0,75	13,1	235
SB3345	7x2x0,75	14,5	270
SB3346	8x2x0,75	15,1	295
SB3347	10x2x0,75	16,0	345
SB3348	12x2x0,75	17,6	415
SB3349	14x2x0,75	18,6	465
SB3350	16x2x0,75	20,0	535
SB3351	18x2x0,75	20,7	575
SB3352	20x2x0,75	21,3	620
SB3353	24x2x0,75	21,9	705
SB3354	2x2x1,0	10,7	155
SB3355	3x2x1,0	11,7	180
SB3356	4x2x1,0	12,6	210
SB3357	5x2x1,0	13,4	255
SB3358	6x2x1,0	13,8	270
SB3359	7x2x1,0	15,3	315

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB3360	8x2x1,0	15,9	345
SB3361	10x2x1,0	17,6	425
SB3362	12x2x1,0	18,6	485
SB3363	14x2x1,0	19,9	555
SB3364	16x2x1,0	21,1	625
SB3365	18x2x1,0	22,0	675
SB3366	20x2x1,0	23,0	750
SB3367	24x2x1,0	23,6	855
SB3368	2x2x1,5	11,9	194
SB3369	3x2x1,5	13,2	225
SB3370	4x2x1,5	14,2	270
SB3371	5x2x1,5	15,2	330
SB3372	6x2x1,5	15,7	355
SB3373	7x2x1,5	18,0	435
SB3374	8x2x1,5	18,8	480
SB3375	10x2x1,5	20,2	570
SB3376	12x2x1,5	21,5	655
SB3377	14x2x1,5	23,1	760
SB3378	16x2x1,5	24,6	860
SB3379	18x2x1,5	26,2	970
SB3380	20x2x1,5	27,0	1050
SB3381	24x2x1,5	27,7	1200
SB3382	2x2x2,5	13,7	260
SB3383	3x2x2,5	15,2	305
SB3384	4x2x2,5	17,1	395
SB3385	5x2x2,5	18,3	480
SB3386	6x2x2,5	18,9	525
SB3387	7x2x2,5	21,2	615
SB3388	8x2x2,5	22,1	680
SB3389	10x2x2,5	24,1	825
SB3390	12x2x2,5	25,6	950
SB3391	14x2x2,5	27,7	1120
SB3392	16x2x2,5	29,5	1270

*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