

BiT 500[®](St)CH B2ca

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



industrial application



internal application



EN 60332-1-2



EN 60332-3-22



oxygen index >29



halogen-free
EN 60754



low smoke emission
EN 61034



EMC



high flexibility



UV resistant



B2ca

CPR class

Technical data:

Thermal parameters:

Operating temperature:

fixed installation: -40 °C to 80 °C
flexible connections: -5 °C to 70 °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: 5 x Ø
flexible connections: 10 x Ø

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

Core arrangement:

cores twisted together or pairs twisted together

Screen:

electrostatic screen made of aluminium backed polyester tape and a second screen made of tinned copper wire braid, total screen coverage 100%

Outer sheath:

special halogen-free compound, self-extinguishing and flame retardant (acc. to PN-EN 60332-1-2, EN 60332-1-2, IEC 60332-1-2 - single-core cables and acc. to PN-EN 60332-3-22, EN 60332-3-22, IEC 60332-3-22 cat. A - multi-core cables)

Outer sheath colour:

grey

Application:

Flexible, halogen-free power and control cables designed for operation in control and protective devices as well as in control circuits. 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. Common screen of tinned copper wire braid and metalized tape ensures very good protection against external electromagnetic field (screen attenuation ca. 50 dB). 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]
SB7125	2x0,5	5,5	41
SB7126	3G0,5	5,8	50
SB7127	3x0,5	5,8	50
SB7128	4G0,5	6,2	60
SB7129	4x0,5	6,2	60
SB7130	5G0,5	6,9	76
SB7131	5x0,5	6,9	76
SB7132	6G0,5	7,5	88
SB7133	7G0,5	7,5	92
SB7134	7x0,5	7,5	92
SB7135	8G0,5	8,2	106
SB7136	8x0,5	8,2	106
SB7137	10G0,5	9,9	142
SB7138	12G0,5	9,9	151
SB7139	12x0,5	9,9	151
SB7140	14G0,5	10,3	167
SB7141	16G0,5	10,8	189
SB7142	18G0,5	11,6	215
SB7143	19G0,5	11,6	220
SB7144	21G0,5	12,1	239
SB7145	25G0,5	13,8	292
SB7146	27G0,5	13,8	300
SB7147	30G0,5	14,2	325
SB7148	34G0,5	15,3	372
SB7149	37G0,5	15,3	384

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB7150	40G0,5	16,2	430
SB7151	42G0,5	17,4	460
SB7152	50G0,5	18,3	533
SB7153	56G0,5	18,8	577
SB7154	61G0,5	19,4	616
SB7156	2x0,75	5,9	49
SB7157	3G0,75	6,2	60
SB7158	3x0,75	6,2	60
SB7159	4G0,75	6,9	77
SB7160	4x0,75	6,9	77
SB7161	5G0,75	7,5	90
SB7162	5x0,75	7,5	90
SB7163	6G0,75	8,1	107
SB7164	6x0,75	8,1	107
SB7165	7G0,75	8,1	113
SB7166	7x0,75	8,1	113
SB7167	8G0,75	9,2	141
SB7168	8x0,75	9,2	141
SB7169	10G0,75	10,7	177
SB7170	12G0,75	10,7	187
SB7171	12x0,75	10,7	187
SB7172	14G0,75	11,4	217
SB7173	16G0,75	12,0	243
SB7174	18G0,75	12,6	269
SB7175	19G0,75	12,6	275

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Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB7176	21G0,75	13,1	301
SB7177	25G0,75	15,0	366
SB7178	27G0,75	15,0	378
SB7179	30G0,75	15,5	410
SB7180	34G0,75	17,0	490
SB7181	37G0,75	17,0	507
SB7182	40G0,75	17,6	544
SB7183	42G0,75	19,2	593
SB7184	50G0,75	20,0	678
SB7185	56G0,75	20,6	737
SB7186	61G0,75	21,2	788
SB7188	2x1,0	6,2	55
SB7189	3G1,0	6,5	70
SB7190	3x1,0	6,5	70
SB7191	4G1,0	7,3	88
SB7192	4x1,0	7,3	88
SB7193	5G1,0	7,9	107
SB7194	5x1,0	7,9	107
SB7195	6G1,0	8,5	126
SB7196	6x1,0	8,5	126
SB7197	7G1,0	8,5	133
SB7198	7x1,0	8,5	133
SB7199	8G1,0	9,7	163
SB7200	10G1,0	11,5	214
SB7201	10x1,0	11,5	214
SB7202	12G1,0	11,5	227
SB7203	12x1,0	11,5	227
SB7204	14G1,0	12,0	255
SB7205	16G1,0	12,7	286
SB7206	18G1,0	13,3	319
SB7207	18x1,0	13,3	319
SB7208	19G1,0	13,3	325
SB7209	21G1,0	14,1	366
SB7210	25G1,0	16,3	454
SB7211	27G1,0	16,3	467
SB7212	30G1,0	16,9	509
SB7213	34G1,0	18,3	594
SB7214	37G1,0	18,3	615
SB7215	40G1,0	18,9	660
SB7216	42G1,0	20,4	707
SB7217	50G1,0	21,2	812
SB7218	56G1,0	22,1	895
SB7219	61G1,0	22,7	958
SB7221	2x1,5	7,2	80
SB7222	3G1,5	7,6	94
SB7223	3x1,5	7,6	94
SB7224	4G1,5	8,3	119
SB7225	4x1,5	8,3	119
SB7226	5G1,5	9,4	152
SB7227	5x1,5	9,4	152
SB7228	6G1,5	10,1	178
SB7229	6x1,5	10,1	178
SB7230	7G1,5	10,1	188
SB7231	7x1,5	10,1	188

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB7232	8G1,5	11,1	219
SB7233	10G1,5	13,2	285
SB7234	10x1,5	13,2	285
SB7235	12G1,5	13,2	305
SB7236	12x1,5	13,2	305
SB7237	14G1,5	14,0	353
SB7238	16G1,5	14,8	397
SB7239	18G1,5	15,5	443
SB7240	19G1,5	15,5	453
SB7241	21G1,5	16,7	516
SB7242	25G1,5	19,0	627
SB7243	27G1,5	19,0	647
SB7244	30G1,5	19,6	705
SB7245	34G1,5	21,1	813
SB7246	37G1,5	21,1	843
SB7247	40G1,5	22,1	918
SB7248	42G1,5	23,8	982
SB7249	50G1,5	25,4	1177
SB7250	56G1,5	26,2	1280
SB7251	61G1,5	26,9	1373
SB7253	3G2,5	9,2	141
SB7254	3x2,5	9,2	141
SB7255	4G2,5	10,0	176
SB7256	4x2,5	10,0	176
SB7257	5G2,5	10,8	212
SB7258	5x2,5	10,8	212
SB7259	6G2,5	12,0	259
SB7260	6x2,5	12,0	259
SB7261	7G2,5	12,0	275
SB7262	7x2,5	12,0	275
SB7263	8G2,5	13,2	319
SB7264	10G2,5	16,1	433
SB7265	12G2,5	16,1	464
SB7266	12x2,5	16,1	464
SB7267	14G2,5	16,8	528
SB7268	16G2,5	17,7	594
SB7269	18G2,5	18,9	673
SB7270	19G2,5	18,9	688
SB7271	21G2,5	19,8	760
SB7272	25G2,5	22,6	921
SB7273	27G2,5	22,6	953
SB7274	30G2,5	23,4	1042
SB7275	34G2,5	25,8	1247
SB7276	37G2,5	25,8	1294
SB7277	40G2,5	26,7	1393
SB7278	42G2,5	28,8	1490
SB7279	50G2,5	30,0	1737
SB7281	4G4,0	11,9	274
SB7282	5G4,0	12,8	322
SB7283	6G4,0	14,1	388
SB7284	7G4,0	14,1	417
SB7285	8G4,0	16,0	500
SB7286	10G4,0	19,0	632
SB7287	12G4,0	19,0	703
SB7288	4G6,0	13,3	365

*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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SB7262	7x2,5	12,0	275
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