

# BiT 1000<sup>°C</sup>



Power control cables 0,6/1 kV

Flexible, screened, control and power supply cables, rated 0,6/1 kV



## Technical data:

### Thermal parameters:

#### Operating temperature:

fixed installation: -40 °C to 80 °C  
flexible connections: -5 °C to 80 °C

### Electrical parameters:

**Operating voltage:**  $U_0/U = 0,6/1$  kV

**Test voltage (50 Hz):** 4000 V

**Insulation resistance:** 20 MΩ.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), UV resistant; colour: black

## Application:

BiT 1000<sup>°C</sup> cables are designed for connections in control and signalling circuits, as power supply cables for mobile and portable devices in places exposed to vibrations. Insulation compounds and construction of BiT 1000<sup>°C</sup> cable enable easy and fast connections and ensure their high durability. They 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 installations - outer sheath is UV resistant. **Cables designed also for direct burial in ground.** Properly connected screen ensures full electromagnetic compatibility (EMC). Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS0100	2x0,5	8,6	99
BS0101	3G0,5	9,0	108
BS0102	3x0,5	9,0	108
BS0103	4G0,5	9,6	126
BS0104	4x0,5	9,6	126
BS0105	5G0,5	10,2	144
BS0106	5x0,5	10,2	144
BS0107	6G0,5	11,0	165
BS0108	7G0,5	11,0	168
BS0109	7x0,5	11,0	168
BS0110	8G0,5	11,9	192
BS0111	8x0,5	11,9	192
BS0112	10G0,5	13,7	245
BS0113	12G0,5	13,7	250
BS0114	12x0,5	13,7	250
BS0115	14G0,5	14,2	275
BS0116	16G0,5	14,9	305
BS0117	18G0,5	15,7	335
BS0118	19G0,5	15,7	340
BS0119	21G0,5	16,4	370
BS0120	25G0,5	18,4	445
BS0121	30G0,5	19,0	485
BS0122	34G0,5	20,4	560
BS0123	37G0,5	20,4	570
BS0124	42G0,5	22,9	670
BS0125	52G0,5	23,8	765
BS0126	61G0,5	25,5	880

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS0127	2x0,75	9,0	110
BS0128	3G0,75	9,4	125
BS0129	3x0,75	9,4	122
BS0130	4G0,75	10,1	142
BS0131	4x0,75	10,1	142
BS0132	5G0,75	10,8	164
BS0133	5x0,75	10,8	164
BS0134	6G0,75	11,6	188
BS0135	6x0,75	11,6	188
BS0136	7G0,75	11,6	194
BS0137	7x0,75	11,6	194
BS0138	8G0,75	12,6	225
BS0139	8x0,75	12,6	225
BS0140	10G0,75	14,5	280
BS0141	12G0,75	14,5	290
BS0142	12x0,75	14,5	290
BS0143	14G0,75	15,1	325
BS0144	16G0,75	15,9	360
BS0145	18G0,75	16,7	400
BS0146	19G0,75	16,7	405
BS0147	21G0,75	17,4	440
BS0148	25G0,75	19,6	525
BS0149	30G0,75	20,2	585
BS0150	34G0,75	21,8	670
BS0151	37G0,75	21,8	690
BS0152	42G0,75	24,5	805
BS0153	52G0,75	25,7	940
BS0154	61G0,75	27,3	1075

# BiT 1000<sup>®</sup>C

Flexible, screened, control and power supply cables, rated 0,6/1 kV

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS0155	2x1,0	9,3	120
BS0156	3G1,0	9,7	132
BS0157	3x1,0	9,7	132
BS0158	4G1,0	10,4	156
BS0159	4x1,0	10,4	156
BS0160	5G1,0	11,2	182
BS0161	5x1,0	11,2	182
BS0162	6G1,0	12,0	210
BS0163	6x1,0	12,0	210
BS0164	7G1,0	12,0	220
BS0165	7x1,0	12,0	220
BS0166	8G1,0	13,1	250
BS0167	10G1,0	15,1	315
BS0168	10x1,0	15,1	315
BS0169	12G1,0	15,1	330
BS0170	12x1,0	15,1	330
BS0171	14G1,0	15,8	365
BS0172	16G1,0	16,6	410
BS0173	18G1,0	17,4	455
BS0174	18G1,0	17,4	455
BS0175	19G1,0	17,4	460
BS0176	21G1,0	18,2	505
BS0177	25G1,0	20,5	605
BS0178	30G1,0	21,2	670
BS0179	34G1,0	23,0	785
BS0180	37G1,0	23,0	805
BS0181	42G1,0	25,9	940
BS0182	52G1,0	27,0	1090
BS0183	61G1,0	28,8	1255
BS0184	2x1,5	10,1	140
BS0185	3G1,5	10,4	158
BS0186	3x1,5	10,4	158
BS0187	4G1,5	11,4	190
BS0188	4x1,5	11,4	190
BS0189	5G1,5	12,3	230
BS0190	5x1,5	12,3	230
BS0191	6G1,5	13,2	265
BS0192	6x1,5	13,2	265
BS0193	7G1,5	13,2	275
BS0194	7x1,5	13,2	275

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS0195	8G1,5	14,4	315
BS0196	10G1,5	16,8	395
BS0197	10x1,5	16,8	395
BS0198	12G1,5	16,8	415
BS0199	12x1,5	16,8	415
BS0200	14G1,5	17,5	470
BS0201	16G1,5	18,5	525
BS0202	18G1,5	19,4	580
BS0203	19G1,5	19,4	595
BS0204	21G1,5	20,3	650
BS0205	25G1,5	23,2	790
BS0206	30G1,5	24,0	885
BS0207	34G1,5	26,0	1035
BS0208	37G1,5	26,0	1065
BS0209	42G1,5	29,3	1240
BS0210	52G1,5	30,7	1470
BS0211	61G1,5	32,8	1695
BS0212	2x2,5	11,2	174
BS0213	3G2,5	11,7	200
BS0214	3x2,5	11,7	200
BS0215	4G2,5	12,8	250
BS0216	4x2,5	12,8	250
BS0217	5G2,5	13,8	295
BS0218	5x2,5	13,8	295
BS0219	6G2,5	14,9	345
BS0220	6x2,5	14,9	345
BS0221	7G2,5	14,9	360
BS0222	7x2,5	14,9	360
BS0223	10G2,5	19,0	535
BS0224	12G2,5	19,0	565
BS0225	12x2,5	19,0	565
BS0226	14G2,5	20,0	635
BS0227	16G2,5	21,1	720
BS0228	18G2,5	22,4	810
BS0229	21G2,5	23,4	910
BS0230	25G2,5	26,7	1105
BS0231	30G2,5	27,7	1240
BS0232	34G2,5	30,3	1480
BS0233	37G2,5	30,3	1525
BS0234	42G2,5	33,9	1775
BS0235	52G2,5	35,8	2090

# BIT 1000<sup>®</sup>C

Flexible, screened, control and power supply cables, rated 0,6/1 kV

Power control cables 0,6/1 kV

## paired cables

Cat. no.	n x 2 x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS0245	2x2x0,5	11,4	165
BS0246	3x2x0,5	12,6	180
BS0247	4x2x0,5	13,5	210
BS0248	5x2x0,5	14,5	250
BS0249	6x2x0,5	14,9	265
BS0250	7x2x0,5	16,6	305
BS0251	8x2x0,5	17,3	330
BS0252	10x2x0,5	18,5	385
BS0253	12x2x0,5	19,6	435
BS0254	14x2x0,5	20,8	490
BS0255	16x2x0,5	22,4	565
BS0256	18x2x0,5	23,4	605
BS0257	20x2x0,5	24,1	650
BS0258	24x2x0,5	24,8	740
BS0259	2x2x0,75	12,1	180
BS0260	3x2x0,75	13,3	205
BS0261	4x2x0,75	14,4	240
BS0262	5x2x0,75	15,4	290
BS0263	6x2x0,75	15,9	310
BS0264	7x2x0,75	17,7	355
BS0265	8x2x0,75	18,4	390
BS0266	10x2x0,75	19,7	450
BS0267	12x2x0,75	21,0	515
BS0268	14x2x0,75	22,5	595
BS0269	16x2x0,75	24,0	675
BS0270	18x2x0,75	25,2	735
BS0271	20x2x0,75	26,0	795
BS0272	24x2x0,75	26,7	905
BS0273	2x2x1,0	12,5	200
BS0274	3x2x1,0	13,9	225
BS0275	4x2x1,0	15,0	270
BS0276	5x2x1,0	16,1	330
BS0277	6x2x1,0	16,6	345

Cat. no.	n x 2 x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS0278	7x2x1,0	18,5	400
BS0279	8x2x1,0	19,3	440
BS0280	10x2x1,0	20,6	515
BS0281	12x2x1,0	22,0	590
BS0282	14x2x1,0	23,5	675
BS0283	16x2x1,0	25,4	785
BS0284	18x2x1,0	26,4	840
BS0285	20x2x1,0	27,3	915
BS0286	24x2x1,0	28,3	1060
BS0287	2x2x1,5	13,8	245
BS0288	3x2x1,5	15,4	275
BS0289	4x2x1,5	16,6	335
BS0290	5x2x1,5	17,9	410
BS0291	6x2x1,5	18,5	440
BS0292	7x2x1,5	20,6	505
BS0293	8x2x1,5	21,6	555
BS0294	10x2x1,5	23,3	670
BS0295	12x2x1,5	24,9	770
BS0296	14x2x1,5	26,6	885
BS0298	16x2x1,5	28,7	1030
BS0297	18x2x1,5	30,1	1130
BS0299	20x2x1,5	31,3	1240
BS0300	24x2x1,5	32,2	1420
BS0301	2x2x2,5	15,6	315
BS0302	3x2x2,5	17,4	360
BS0303	4x2x2,5	18,9	440
BS0304	5x2x2,5	20,3	550
BS0305	6x2x2,5	21,1	590
BS0306	7x2x2,5	23,8	690
BS0307	8x2x2,5	24,9	765
BS0308	10x2x2,5	26,9	925
BS0309	12x2x2,5	29,0	1085
BS0310	14x2x2,5	31,0	1260
BS0311	16x2x2,5	33,4	1460

\*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