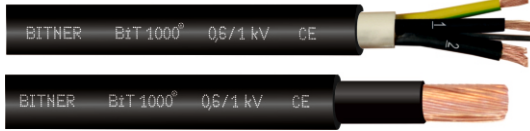


# BiT 1000<sup>®</sup>



Flexible, 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  
occasional flexing: -15 °C\* to 80 °C

### Electrical parameters:

Operating voltage:  $U_0/U = 0,6/1$  kV  
Test voltage (50 Hz): 4000 V  
Insulation resistance: 20 M $\Omega$ km

### Mechanical parameters:

#### Min. bending radius:

flexible connections: 10 x  $\varnothing$   
fixed installation: 5 x  $\varnothing$

\*minimum temperature for occasional flexing with bending radius not smaller than 15 x D. Bending test at low temperature (-15 °C acc. to EN 60811-504).

## Design:

### Conductors:

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

### Insulation:

PVC compound

### Core identification:

black, numbered conductors, cables with protective earth conductor marked G (e.g. 7G1,5)

### Core arrangement:

cores twisted together

### Inner sheath:

PVC compound for sections over 2,5 mm<sup>2</sup> (single core or paired cables without inner sheath)

### Outer sheath:

PVC compound, oil resistant (see table of chemical resistance), self-extinguishing and flame retardant (acc. to EN 60332-1-2, EN 50265, IEC 60332-1), UV resistant; colour: black

## Application:

BiT 1000<sup>®</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>®</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.** Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
S63100	2x0,5	8,0	82
S63101	3G0,5	8,4	92
S63055	3x0,5	8,4	92
S63102	4G0,5	9,0	108
S63056	4x0,5	9,0	108
S63103	5G0,5	9,6	124
S63057	5x0,5	9,6	124
S63104	6G0,5	10,4	144
S63105	7G0,5	10,4	146
S63058	7x0,5	10,4	146
S63106	8G0,5	11,3	170
S63059	8x0,5	11,3	170
S63107	10G0,5	13,1	220
S63108	12G0,5	13,1	225
S63060	12x0,5	13,1	225
S63109	14G0,5	13,6	250
S63110	16G0,5	14,3	275
S63111	18G0,5	15,1	305
S63113	21G0,5	15,8	335
S63114	25G0,5	17,8	405
S63115	30G0,5	18,4	445
S63116	32G0,5	19,0	480
S63117	34G0,5	19,8	515
S63061	37G0,5	19,8	525
S63062	42G0,5	22,1	610
S63063	52G0,5	23,2	710
S63064	61G0,5	24,7	810

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
S63118	2x0,75	8,4	92
S63119	3G0,75	8,8	106
S63065	3x0,75	8,8	106
S63120	4G0,75	9,5	126
S63066	4x0,75	9,5	126
S63121	5G0,75	10,2	146
S63067	5x0,75	10,2	146
S63122	6G0,75	11,0	166
S63068	6x0,75	11,0	166
S63123	7G0,75	11,0	172
S63069	7x0,75	11,0	172
S63124	8G0,75	12,0	200
S63070	8x0,75	12,0	200
S63125	10G0,75	13,9	255
S63126	12G0,75	13,9	265
S63071	12x0,75	13,9	265
S63127	14G0,75	14,5	295
S63128	16G0,75	15,3	330
S63129	18G0,75	16,1	365
S63131	21G0,75	16,8	405
S63132	25G0,75	19,0	485
S63133	30G0,75	19,6	540
S63134	32G0,75	20,4	585
S63135	34G0,75	21,2	625
S63072	37G0,75	21,2	640
S63073	42G0,75	23,9	755
S63074	52G0,75	24,9	875
S63075	61G0,75	26,7	1010

# BiT 1000®

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

Power control cables 0,6/1 kV

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
S63136	2x1,0	8,7	102
S63137	3G1,0	9,1	118
S63076	3x1,0	9,1	118
S63138	4G1,0	9,8	140
S63077	4x1,0	9,8	140
S63139	5G1,0	10,6	164
S63078	5x1,0	10,6	164
S63140	6G1,0	11,4	188
S63141	7G1,0	11,4	196
S63079	7x1,0	11,4	196
S63142	8G1,0	12,5	180
S63143	10G1,0	14,5	290
S63080	10x1,0	14,5	290
S63144	12G1,0	14,5	305
S63081	12x1,0	14,5	305
S63145	14G1,0	15,2	340
S63146	16G1,0	16,0	380
S63147	18G1,0	16,8	420
S63149	21G1,0	17,6	470
S63150	25G1,0	19,9	565
S63151	30G1,0	20,6	625
S63152	32G1,0	21,4	675
S63153	34G1,0	22,4	735
S63082	37G1,0	22,4	755
S63083	42G1,0	25,1	880
S63084	52G1,0	26,4	1030
S63085	61G1,0	28,0	1180
S63154	2x1,5	9,5	124
S63155	3G1,5	10,0	146
S63086	3x1,5	10,0	146
S63156	4G1,5	10,8	174
S63087	4x1,5	10,8	174
S63157	5G1,5	11,7	205
S63088	5x1,5	11,7	205
S63158	6G1,5	12,6	240
S63159	7G1,5	12,6	250
S63089	7x1,5	12,6	250
S63160	8G1,5	13,8	290
S63161	10G1,5	16,2	370
S63162	12G1,5	16,2	390
S63090	12x1,5	16,2	390
S63163	14G1,5	16,9	440
S63164	16G1,5	17,9	495
S63165	18G1,5	18,8	545
S63167	21G1,5	19,7	615
S63168	25G1,5	22,6	750
S63169	30G1,5	23,4	840
S63170	32G1,5	24,3	905
S63171	34G1,5	25,2	970
S63091	37G1,5	25,2	1000
S63092	42G1,5	28,7	1190
S63093	52G1,5	29,9	1390
S63094	61G1,5	32,0	1610
S62514	2x2,5	10,6	162
S62515	3G2,5	11,1	192
S62516	3x2,5	11,1	192
S62517	4G2,5	12,1	235
S62518	4x2,5	12,1	235
S62519	5G2,5	13,2	280

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
S62520	5x2,5	13,2	280
S62521	7G2,5	14,3	340
S63095	7x2,5	14,3	340
S63096	8G2,5	15,7	400
S63097	10G2,5	18,4	510
S63098	12G2,5	18,4	540
S63099	14G2,5	19,4	610
S62523	16G2,5	20,5	685
S62524	18G2,5	21,6	765
S63173	21G2,5	22,8	870
S62525	25G2,5	26,1	1070
S63174	30G2,5	27,1	1200
S63175	32G2,5	28,2	1290
S63176	34G2,5	29,5	1400
S63177	37G2,5	29,5	1450
S63178	42G2,5	33,3	1700
S63179	52G2,5	35,0	2000
S63180	61G2,5	37,2	2300
S62526	2x4	12,8	265
S62527	3G4	13,4	310
S63181	3x4	13,4	310
S62528	4G4	14,6	375
S62529	5G4	15,7	445
S62530	7G4	17,1	545
S63182	10G4	22,0	820
S63183	14G4	23,7	1010
S63184	2x6	14,0	330
S62532	3G6	14,7	395
S62533	4G6	16,4	490
S62534	5G6	17,5	580
S62535	7G6	18,9	715
S63185	10G6	25,1	1110
S62536	3G10	18,1	630
S62537	4G10	20,2	785
S62538	5G10	21,6	925
S62539	7G10	23,6	1160
S62540	3G16	20,5	860
S62541	4G16	22,8	1080
S62542	5G16	24,5	1280
S62543	7G16	26,8	1630
S62544	3G25	25,1	1310
S62545	4G25	27,8	1620
S62546	5G25	30,2	1950
S62547	3G35	27,3	1660
S62548	4G35	30,4	2090
S62549	5G35	33,1	2520
S62550	3G50	32,6	2290
S62551	4G50	36,4	2890
S62552	5G50	39,5	3480
S62553	3G70	36,7	3120
S62554	4G70	41,2	3960
S62555	5G70	44,8	4790
S62556	3G95	41,6	4070
S62557	4G95	46,5	5150
S62558	5G95	50,9	6100
S62559	3G120	44,6	4930
S62560	4G120	49,9	6260
S62561	4G150	56,5	7770
S62562	4G185	63,1	9400
S62563	4G240	70,2	12340

# BiT 1000®

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

## paired cables

Cat. no.	n x 2 x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS0001	2x2x0,5	10,8	130
BS0002	3x2x0,5	12,0	142
BS0003	4x2x0,5	12,9	168
BS0004	5x2x0,5	13,9	210
BS0005	6x2x0,5	14,3	220
BS0006	7x2x0,5	16,0	255
BS0007	8x2x0,5	16,7	280
BS0008	10x2x0,5	17,9	325
BS0009	12x2x0,5	19,0	375
BS0010	14x2x0,5	20,2	425
BS0011	16x2x0,5	21,6	490
BS0012	18x2x0,5	22,8	530
BS0013	20x2x0,5	23,5	580
BS0014	24x2x0,5	24,2	660
BS0015	2x2x0,75	11,5	146
BS0016	3x2x0,75	12,7	164
BS0017	4x2x0,75	13,8	198
BS0018	5x2x0,75	14,8	245
BS0019	6x2x0,75	15,3	260
BS0020	7x2x0,75	17,1	300
BS0021	8x2x0,75	17,8	330
BS0022	10x2x0,75	19,1	390
BS0023	12x2x0,75	20,4	455
BS0024	14x2x0,75	21,7	515
BS0025	16x2x0,75	23,4	600
BS0026	18x2x0,75	24,4	645
BS0027	20x2x0,75	25,4	715
BS0028	24x2x0,75	26,1	820
BS0029	2x2x1,0	11,9	164
BS0030	3x2x1,0	13,3	184
BS0031	4x2x1,0	14,4	225
BS0032	5x2x1,0	15,5	280
BS0033	6x2x1,0	16,0	300

Cat. no.	n x 2 x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS0034	7x2x1,0	17,9	345
BS0035	8x2x1,0	18,7	380
BS0036	10x2x1,0	20,0	450
BS0037	12x2x1,0	21,4	520
BS0038	14x2x1,0	22,9	605
BS0039	16x2x1,0	24,6	695
BS0040	18x2x1,0	25,8	760
BS0041	20x2x1,0	26,7	830
BS0042	24x2x1,0	27,5	955
BS0043	2x2x1,5	13,2	205
BS0044	3x2x1,5	14,8	230
BS0045	4x2x1,5	16,0	285
BS0046	5x2x1,5	17,3	360
BS0047	6x2x1,5	17,9	380
BS0048	7x2x1,5	20,0	440
BS0049	8x2x1,5	21,0	490
BS0050	10x2x1,5	22,7	595
BS0051	12x2x1,5	24,3	695
BS0052	14x2x1,5	26,0	805
BS0053	16x2x1,5	27,9	925
BS0054	18x2x1,5	29,3	1010
BS0055	20x2x1,5	30,3	1110
BS0056	24x2x1,5	31,4	1300
BS0057	2x2x2,5	15,0	270
BS0058	3x2x2,5	16,8	310
BS0059	4x2x2,5	18,3	385
BS0060	5x2x2,5	19,7	490
BS0061	6x2x2,5	20,5	525
BS0062	7x2x2,5	23,2	620
BS0063	8x2x2,5	24,3	690
BS0064	10x2x2,5	26,3	840
BS0065	12x2x2,5	28,4	995
BS0066	14x2x2,5	30,2	1135
BS0067	16x2x2,5	32,6	1330

## single core cables

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
S62500	1x1,5	5,8	49
S62501	1x2,5	6,4	63
S62502	1x4	6,8	82
S62503	1x6	7,4	105
S62504	1x10	8,7	160
S62505	1x16	9,7	226
S62506	1x25	11,4	340
S62507	1x35	12,5	450
S62508	1x50	14,7	625
S62509	1x70	16,6	840
S62510	1x95	18,7	1125
S62511	1x120	20,5	1380
S62512	1x150	22,5	1730
S62513	1x185	25,1	2130
S62579	1x240	28,1	2460
S62582	1x300	31,8	3148
S62586	1x400	35,5	4290
S62588	1x500	40,8	5200

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
S62564	1G1,5	5,8	49
S62565	1G2,5	6,4	63
S62566	1G4	6,8	82
S62567	1G6	7,4	105
S62568	1G10	8,7	160
S62569	1G16	9,7	226
S62570	1G25	11,4	340
S62571	1G35	12,5	450
S62572	1G50	14,7	625
S62573	1G70	16,6	840
S62574	1G95	18,7	1125
S62575	1G120	20,5	1380
S62576	1G150	22,5	1730
S62577	1G185	25,1	2130
S62581	1G240	28,1	2460
S62583	1G300	31,8	3148
S62587	1G400	35,5	4290
S62589	1G500	40,6	5200

\*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