

# BiT 1000<sup>®</sup> C FR



Flexible, screened, highly flame retardant 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:**  $U_i/U_n = 0,6/1$  kV  
**Test voltage (50 Hz):** 4000 V  
**Insulation resistance:** 20 MΩxkm

### Mechanical parameters:

#### Min. bending radius:

flexible connections:  $12 \times \varnothing$   
fixed installation:  $6 \times \varnothing$

## 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  
tinned copper wire braid, coverage  $\geq 85\%$

### Screen:

PVC compound, oil resistant (see table of chemical resistance), self-extinguishing and flame retardant

### Outer sheath:

(acc. to EN 60332-1-2, EN 60332-3-24, cat. C), UV resistant, LOI>29; colour: black

## Application:

BiT 1000<sup>®</sup> C FR 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> C FR 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, especially in applications in places with increased fire safety requirements (limited flame propagation). Cables suitable for outdoor installation - 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]
BS0710	2x0,5	8,6	100
BS0711	3G0,5	9,0	110
BS0712	3x0,5	9,0	110
BS0713	4G0,5	9,6	127
BS0714	4x0,5	9,6	127
BS0715	5G0,5	10,2	147
BS0716	5x0,5	10,2	147
BS0717	6G0,5	11,0	170
BS0718	7G0,5	11,0	174
BS0719	7x0,5	11,0	174
BS0720	8G0,5	11,9	199
BS0721	8x0,5	11,9	199
BS0722	10G0,5	13,7	250
BS0723	12G0,5	13,7	255
BS0724	12x0,5	13,7	155
BS0725	14G0,5	14,2	285
BS0726	16G0,5	14,9	315
BS0727	18G0,5	15,7	350
BS0728	19G0,5	15,7	350
BS0729	21G0,5	16,4	385
BS0730	25G0,5	18,4	460
BS0731	30G0,5	19,0	505
BS0732	34G0,5	20,4	585
BS0733	37G0,5	20,4	595
BS0734	42G0,5	22,9	700
BS0735	52G0,5	23,8	800
BS0736	61G0,5	25,5	925

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS0737	2x0,75	9,0	110
BS0738	3G0,75	9,4	124
BS0739	3x0,75	9,4	124
BS0740	4G0,75	10,1	145
BS0741	4x0,75	10,1	145
BS0742	5G0,75	10,8	170
BS0743	5x0,75	10,8	170
BS0744	6G0,75	11,6	194
BS0745	6x0,75	11,6	194
BS0746	7G0,75	11,6	201
BS0747	7x0,75	11,6	201
BS0748	8G0,75	12,6	234
BS0749	8x0,75	12,6	234
BS0750	10G0,75	14,5	285
BS0751	12G0,75	14,5	300
BS0752	12x0,75	14,5	300
BS0753	14G0,75	15,1	335
BS0754	16G0,75	15,9	375
BS0755	18G0,75	16,7	410
BS0756	19G0,75	16,7	420
BS0757	21G0,75	17,4	460
BS0758	25G0,75	19,6	545
BS0759	30G0,75	20,2	605
BS0760	34G0,75	21,8	695
BS0761	37G0,75	21,8	715
BS0762	42G0,75	24,5	835
BS0763	52G0,75	25,7	980
BS0764	61G0,75	27,3	1120

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Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS0765	2x1,0	9,3	121
BS0766	3G1,0	9,7	134
BS0767	3x1,0	9,7	134
BS0768	4G1,0	10,4	160
BS0769	4x1,0	10,4	160
BS0770	5G1,0	11,2	187
BS0771	5x1,0	11,2	187
BS0772	6G1,0	12,0	217
BS0773	6x1,0	12,0	217
BS0774	7G1,0	12,0	225
BS0775	7x1,0	12,0	225
BS0776	8G1,0	13,1	260
BS0777	10G1,0	15,1	325
BS0778	10x1,0	15,1	325
BS0779	12G1,0	15,1	340
BS0780	12x1,0	15,1	340
BS0781	14G1,0	15,8	380
BS0782	16G1,0	16,6	425
BS0783	18G1,0	17,4	470
BS0785	19G1,0	17,4	475
BS0786	21G1,0	18,2	525
BS0787	25G1,0	20,6	625
BS0788	30G1,0	21,2	695
BS0789	34G1,0	23,0	815
BS0790	37G1,0	23,0	835
BS0791	42G1,0	25,9	980
BS0792	52G1,0	27,0	1135
BS0793	61G1,0	28,8	1310
BS0794	2x1,5	10,1	143
BS0795	3G1,5	10,6	152
BS0796	3x1,5	10,6	152
BS0797	4G1,5	11,4	196
BS0798	4x1,5	11,4	196
BS0799	5G1,5	12,3	234
BS0800	5x1,5	12,3	234
BS0801	6G1,5	13,2	270
BS0802	6x1,5	13,2	270
BS0803	7G1,5	13,2	280
BS0804	7x1,5	13,2	280

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS0805	8G1,5	14,4	320
BS0806	10G1,5	16,8	405
BS0807	10x1,5	16,8	405
BS0808	12G1,5	16,8	430
BS0809	12x1,5	16,8	430
BS0810	14G1,5	17,5	485
BS0811	16G1,5	18,5	545
BS0812	18G1,5	19,4	605
BS0813	19G1,5	19,4	615
BS0814	21G1,5	20,3	675
BS0815	25G1,5	23,2	820
BS0816	30G1,5	24,0	920
BS0817	34G1,5	26,0	1075
BS0818	37G1,5	26,0	1105
BS0819	42G1,5	29,3	1290
BS0820	52G1,5	30,7	1530
BS0821	61G1,5	32,8	1770
BS0822	2x2,5	11,2	179
BS0823	3G2,5	11,7	207
BS0824	3x2,5	11,7	207
BS0825	4G2,5	12,7	255
BS0826	4x2,5	12,7	255
BS0827	5G2,5	13,2	305
BS0828	5x2,5	13,2	305
BS0829	6G2,5	14,9	355
BS0830	6x2,5	14,9	355
BS0831	7G2,5	14,9	370
BS0832	7x2,5	14,9	370
BS0833	10G2,5	19,0	550
BS0834	12G2,5	19,0	580
BS0835	12x2,5	19,0	580
BS0836	14G2,5	20,0	660
BS0837	16G2,5	21,1	745
BS0838	18G2,5	22,4	840
BS0839	21G2,5	23,4	945
BS0840	25G2,5	26,7	1145
BS0841	30G2,5	27,7	1290
BS0842	34G2,5	30,3	1530
BS0843	37G2,5	30,3	1585
BS0844	42G2,5	33,9	1840
BS0845	52G2,5	35,8	2175

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## paired cables

Cat. no.	n x 2 x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS0850	2x2x0,5	11,4	168
BS0851	3x2x0,5	12,6	184
BS0852	4x2x0,5	13,5	217
BS0853	5x2x0,5	14,5	260
BS0854	6x2x0,5	14,9	275
BS0855	7x2x0,5	16,6	315
BS0856	8x2x0,5	17,3	340
BS0857	10x2x0,5	18,5	400
BS0858	12x2x0,5	19,6	455
BS0859	14x2x0,5	20,8	510
BS0860	16x2x0,5	22,4	590
BS0861	18x2x0,5	23,4	630
BS0862	20x2x0,5	24,1	680
BS0863	24x2x0,5	24,8	775
BS0864	2x2x0,75	12,1	186
BS0865	3x2x0,75	13,3	211
BS0866	4x2x0,75	14,4	249
BS0867	5x2x0,75	15,4	300
BS0868	6x2x0,75	15,9	320
BS0869	7x2x0,75	17,7	365
BS0870	8x2x0,75	18,4	400
BS0871	10x2x0,75	19,7	470
BS0872	12x2x0,75	21,0	540
BS0873	14x2x0,75	22,5	615
BS0874	16x2x0,75	24,0	705
BS0875	18x2x0,75	25,2	765
BS0876	20x2x0,75	26,0	830
BS0877	24x2x0,75	26,7	945
BS0878	2x2x1,0	12,5	206
BS0879	3x2x1,0	13,9	233
BS0880	4x2x1,0	15,0	275
BS0881	5x2x1,0	16,1	340
BS0882	6x2x1,0	16,6	360

Cat. no.	n x 2 x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS0883	7x2x1,0	18,5	410
BS0884	8x2x1,0	19,3	455
BS0885	10x2x1,0	20,6	535
BS0886	12x2x1,0	22,0	615
BS0887	14x2x1,0	23,5	705
BS0888	16x2x1,0	25,4	815
BS0889	18x2x1,0	26,4	875
BS0890	20x2x1,0	27,3	950
BS0891	24x2x1,0	28,3	1105
BS0892	2x2x1,5	13,8	250
BS0893	3x2x1,5	15,4	285
BS0894	4x2x1,5	16,6	345
BS0895	5x2x1,5	17,9	425
BS0896	6x2x1,5	18,5	455
BS0897	7x2x1,5	20,6	520
BS0898	8x2x1,5	21,6	575
BS0899	10x2x1,5	23,3	695
BS0900	12x2x1,5	24,9	800
BS0901	14x2x1,5	26,6	920
BS0902	16x2x1,5	28,7	1070
BS0903	18x2x1,5	30,1	1175
BS0904	20x2x1,5	31,3	1290
BS0905	24x2x1,5	32,2	1480
BS0906	2x2x2,5	15,6	320
BS0907	3x2x2,5	17,4	370
BS0908	4x2x2,5	18,9	455
BS0909	5x2x2,5	20,3	565
BS0910	6x2x2,5	21,1	610
BS0911	7x2x2,5	23,8	715
BS0912	8x2x2,5	24,9	795
BS0913	10x2x2,5	26,9	960
BS0914	12x2x2,5	29,0	1125
BS0915	14x2x2,5	31,0	1305
BS0916	16x2x2,5	33,4	1515

\*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