

BiT 1000[®]CY FR

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



Power control cables 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: $U_n/U = 0,6/1$ 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, numbered conductors, cables with protective earth conductor marked G (e.g. 7G1,5)

Core arrangement:

cores twisted together

Inner sheath:

PVC compound (single core cables without inner sheath)

Screen:

tinned copper wire braid with coverage $\geq 85\%$

Outer sheath:

PVC compound, oil resistant (see table of chemical resistance), self-extinguishing and flame retardant (acc. to EN 60332-1-2, EN 60332-3-24, cat. C), UV resistant, LOI>29; colour: black

Application:

BiT 1000[®]CY 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[®]CY 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 ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S66560	2x0,5	9,6	138
S66561	3G0,5	10,0	152
S66562	4G0,5	10,6	172
S66563	5G0,5	11,2	195
S66564	6G0,5	12,0	223
S66565	7G0,5	12,0	227
S66566	8G0,5	13,1	260
S66567	10G0,5	14,9	320
S66568	12G0,5	14,9	325
S66569	14G0,5	15,4	355
S66570	16G0,5	16,3	400
S66571	18G0,5	17,1	435
S66572	19G0,5	17,1	440
S66573	20G0,5	17,8	470
S66574	21G0,5	17,8	475
S66575	25G0,5	20,0	570
S66576	30G0,5	20,6	620
S66577	37G0,5	22,2	720
S66578	2x0,75	10,0	144
S66579	3G0,75	10,4	161
S66580	4G0,75	10,9	184
S66581	5G0,75	11,8	224
S66582	6G0,75	12,6	250
S66583	7G0,75	12,6	255
S66584	8G0,75	13,8	295
S66585	10G0,75	15,7	365

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S66586	12G0,75	15,7	375
S66587	14G0,75	16,5	420
S66588	16G0,75	17,3	465
S66589	18G0,75	18,1	505
S66590	19G0,75	18,1	510
S66591	20G0,75	19,0	560
S66592	21G0,75	19,0	565
S66593	25G0,75	21,2	665
S66594	2x1,0	10,1	157
S66595	3G1,0	10,6	186
S66596	4G1,0	11,4	201
S66597	5G1,0	12,2	244
S66598	6G1,0	13,2	280
S66599	7G1,0	13,2	285
S66600	8G1,0	14,3	325
S66601	10G1,0	16,5	415
S66602	12G1,0	16,5	430
S66603	14G1,0	17,2	470
S66604	16G1,0	18,0	520
S66605	18G1,0	18,8	570
S66606	19G1,0	18,8	575
S66607	20G1,0	19,8	625
S66608	21G1,0	19,8	635
S66609	25G1,0	22,3	770
S66610	2x1,5	10,9	195
S66611	3G1,5	11,4	209

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Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S66612	4G1,5	12,4	250
S66613	5G1,5	13,5	300
S66614	6G1,5	14,4	340
S66615	7G1,5	14,4	350
S66616	8G1,5	15,6	405
S66617	10G1,5	18,2	510
S66618	12G1,5	18,2	535
S66620	16G1,5	20,2	655
S66400	2x2,5	12,2	231
S66401	3G2,5	12,9	285
S66402	4G2,5	13,9	330
S66403	5G2,5	15,0	385
S66404	7G2,5	16,3	450
S66405	10G2,5	20,8	685
S66406	14G2,5	21,8	795
S66407	16G2,5	23,1	900
S66408	18G2,5	24,7	1025
S66409	25G2,5	29,0	1385
S66410	2x4	13,4	305
S66411	3G4	14,0	355
S66412	4G4	15,2	430
S66413	5G4	16,5	505
S66414	7G4	17,7	610
S66415	10G4	22,8	915
S66416	3G6	15,3	445
S66417	4G6	16,9	550
S66418	5G6	18,1	640
S66419	7G6	19,7	795

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S66420	3G10	18,7	690
S66421	4G10	20,8	855
S66422	5G10	22,2	995
S66423	7G10	24,2	1245
S66424	3G16	21,1	925
S66425	4G16	23,4	1155
S66426	5G16	25,3	1375
S66427	7G16	27,4	1720
S66428	3G25	25,7	1410
S66429	4G25	28,6	1755
S66430	5G25	30,8	2080
S66431	3G35	27,9	1740
S66432	4G35	31,4	2220
S66433	5G35	33,9	2645
S66434	3G50	33,0	2440
S66435	4G50	36,8	3055
S66436	5G50	39,9	3670
S66437	3G70	37,7	3285
S66438	4G70	42,0	4125
S66439	5G70	45,6	4960
S66440	3G95	42,4	4275
S66441	4G95	47,5	5405
S66442	5G95	51,4	6580
S66443	3G120	45,4	4985
S66444	4G120	50,9	6365
S66445	4G150	57,5	7945
S66446	4G185	64,1	9540
S66447	4G240	71,1	12330

single core cables

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S66630	1x1,5	8,9	90
S66631	1x2,5	9,5	110
S66632	1x4	9,9	176
S66633	1x6	10,5	210
S66634	1x10	11,8	291
S66635	1x16	13,0	387
S66636	1x25	14,9	453
S66637	1x35	16,2	550
S66638	1x50	18,4	748
S66639	1x70	20,5	976
S66640	1x95	22,8	1268
S66641	1x120	24,6	1536
S66642	1x150	26,8	1875
S66643	1x185	29,4	2242
S66644	1x240	32,6	2883
S66645	1x300	36,7	3618

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S66646	1G1,5	8,9	90
S66647	1G2,5	9,5	110
S66648	1G4	9,9	176
S66649	1G6	10,5	210
S66650	1G10	11,8	291
S66651	1G16	13,0	387
S66652	1G25	14,9	453
S66653	1G35	16,2	550
S66654	1G50	18,4	748
S66655	1G70	20,5	976
S66656	1G95	22,8	1268
S66657	1G120	24,6	1536
S66658	1G150	26,8	1875
S66659	1G185	29,4	2242
S66660	1G240	32,6	2883
S66661	1G300	36,7	3618

*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