

# BiT 1000<sup>®</sup> CH

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



## Technical data:

### Thermal parameters:

#### Operating temperature:

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

### Electrical parameters:

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

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

**Insulation resistance:** 20M $\Omega$ xkm

### Mechanical parameters:

#### Min. bending radius:

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

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

### Core arrangement:

cores twisted together

### Screen:

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

### Outer sheath:

special halogen-free, 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; colour: black

## Application:

BiT 1000<sup>®</sup> CH 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> CH 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 and no emission of corrosive gases under fire conditions). **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]
H63050	2x0,5	8,4	100
H63051	3G0,5	9,0	110
H63052	3x0,5	9,0	110
H63053	4G0,5	9,4	127
H63054	4x0,5	9,4	127
H63055	5G0,5	10,2	147
H63056	5x0,5	10,2	147
H63057	6G0,5	11,0	170
H63058	7G0,5	11,0	174
H63059	7x0,5	11,0	174
H63060	8G0,5	11,9	199
H63061	8x0,5	11,9	199
H63062	10G0,5	13,7	250
H63063	12G0,5	13,7	255
H63064	12x0,5	13,7	255
H63065	14G0,5	14,2	285
H63066	16G0,5	14,9	315
H63067	18G0,5	15,7	350
H63068	19G0,5	15,7	350
H63069	21G0,5	16,4	385
H63070	25G0,5	18,4	460
H63071	30G0,5	19,0	505

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
H63072	34G0,5	20,4	585
H63073	37G0,5	20,4	595
H63074	42G0,5	22,9	700
H63075	52G0,5	23,8	800
H63076	61G0,5	25,5	925
H63077	2x0,75	8,8	110
H63078	3G0,75	9,4	124
H63079	3x0,75	9,4	124
H63080	4G0,75	9,9	145
H63081	4x0,75	9,9	145
H63082	5G0,75	10,8	170
H63083	5x0,75	10,8	170
H63084	6G0,75	11,4	194
H63085	6x0,75	11,4	194
H63086	7G0,75	11,4	201
H63087	7x0,75	11,4	201
H63088	8G0,75	12,6	234
H63089	8x0,75	12,6	234
H63090	10G0,75	14,5	285
H63091	12G0,75	14,5	300
H63092	12x0,75	14,5	300
H63093	14G0,75	15,1	335

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
H63094	16G0,75	15,9	375
H63095	18G0,75	16,7	410
H63096	19G0,75	16,7	420
H63097	21G0,75	17,4	460
H63098	25G0,75	19,6	545
H63099	30G0,75	20,2	605
H63100	34G0,75	21,8	695
H63101	37G0,75	21,8	715
H63102	42G0,75	24,5	835
H63103	52G0,75	25,7	980
H63104	61G0,75	27,3	1120
H63105	2x1,0	9,1	121
H63106	3G1,0	9,5	134
H63107	3x1,0	9,5	134
H63108	4G1,0	10,2	160
H63109	4x1,0	10,2	160
H63110	5G1,0	11,0	187
H63111	5x1,0	11,0	187
H63112	6G1,0	11,8	217
H63113	6x1,0	11,8	217
H63114	7G1,0	11,8	225
H63115	7x1,0	11,8	225
H63116	8G1,0	13,1	260
H63117	10G1,0	15,1	325
H63118	10x1,0	15,1	325
H63119	12G1,0	15,1	340
H63120	12x1,0	15,1	340
H63121	14G1,0	15,8	380
H63122	16G1,0	16,6	425
H63123	18G1,0	17,4	470
H63125	19G1,0	17,4	475
H63126	21G1,0	18,2	525
H63127	25G1,0	20,5	625
H63128	30G1,0	21,2	695
H63129	34G1,0	23,0	815
H63130	37G1,0	23,0	835
H63131	42G1,0	25,9	980
H63132	52G1,0	27,0	1135
H63133	61G1,0	28,8	1310
H63134	2x1,5	9,9	143
H63135	3G1,5	10,4	152
H63136	3x1,5	10,4	152
H63137	4G1,5	11,2	196
H63138	4x1,5	11,2	196
H63139	5G1,5	12,1	234
H63140	5x1,5	12,1	234

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
H63141	6G1,5	13,0	270
H63142	6x1,5	13,0	270
H63143	7G1,5	13,0	280
H63144	7x1,5	13,0	280
H63145	8G1,5	14,4	320
H63146	10G1,5	16,8	405
H63147	10x1,5	16,8	405
H63148	12G1,5	16,8	430
H63149	12x1,5	16,8	430
H63150	14G1,5	17,5	485
H63151	16G1,5	18,5	545
H63152	18G1,5	19,4	605
H63153	19G1,5	19,4	615
H63154	21G1,5	20,3	675
H63155	25G1,5	23,2	820
H63156	30G1,5	24,0	920
H63157	34G1,5	26,0	1075
H63158	37G1,5	26,0	1105
H63159	42G1,5	29,3	1290
H63160	52G1,5	30,7	1530
H63161	61G1,5	32,8	1770
H63162	2x2,5	11,0	179
H63163	3G2,5	11,5	207
H63164	3x2,5	11,5	207
H63165	4G2,5	12,5	255
H63166	4x2,5	12,5	255
H63167	5G2,5	13,8	305
H63168	5x2,5	13,8	305
H63169	6G2,5	14,9	355
H63170	6x2,5	14,9	355
H63171	7G2,5	14,9	370
H63172	7x2,5	14,9	370
H63173	10G2,5	19,0	550
H63174	12G2,5	19,1	580
H63175	12x2,5	19,1	580
H63176	14G2,5	20,0	660
H63177	16G2,5	21,1	745
H63178	18G2,5	22,4	840
H63179	21G2,5	23,4	945
H63180	25G2,5	26,7	1145
H63181	30G2,5	27,7	1290
H63182	34G2,5	30,3	1530
H63183	37G2,5	30,3	1585
H63184	42G2,5	33,9	1840
H63185	52G2,5	35,8	2175

\*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

## paired cables

Cat. no.	nx2xmm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
H61300	2x2x0,5	11,4	168
H61301	3x2x0,5	12,6	184
H61302	4x2x0,5	13,5	217
H61303	5x2x0,5	14,5	260
H61304	6x2x0,5	14,9	275
H61305	7x2x0,5	16,6	315
H61306	8x2x0,5	17,3	340
H61307	10x2x0,5	18,5	400
H61308	12x2x0,5	19,6	455
H61309	14x2x0,5	20,8	510
H61310	16x2x0,5	22,4	590
H61311	18x2x0,5	23,4	630
H61312	20x2x0,5	24,1	680
H61313	24x2x0,5	24,8	775
H61314	2x2x0,75	12,1	186
H61315	3x2x0,75	13,3	211
H61316	4x2x0,75	14,4	249
H61317	5x2x0,75	15,4	300
H61318	6x2x0,75	15,9	320
H61319	7x2x0,75	17,7	365
H61320	8x2x0,75	18,4	400
H61321	10x2x0,75	19,7	470
H61322	12x2x0,75	21,0	540
H61323	14x2x0,75	22,5	615
H61324	16x2x0,75	24,0	705
H61325	18x2x0,75	25,2	765
H61326	20x2x0,75	26,0	830
H61327	24x2x0,75	26,7	945
H61328	2x2x1,0	12,3	206
H61329	3x2x1,0	13,9	233
H61330	4x2x1,0	15,0	275
H61331	5x2x1,0	16,1	340
H61332	6x2x1,0	16,6	360

Cat. no.	nx2xmm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
H61333	7x2x1,0	18,5	410
H61334	8x2x1,0	19,3	455
H61335	10x2x1,0	20,6	535
H61336	12x2x1,0	22,0	615
H61337	14x2x1,0	23,5	705
H61338	16x2x1,0	25,4	815
H61339	18x2x1,0	26,4	875
H61340	20x2x1,0	27,3	950
H61341	24x2x1,0	28,3	1105
H61342	2x2x1,5	13,8	250
H61343	3x2x1,5	15,4	285
H61344	4x2x1,5	16,6	345
H61345	5x2x1,5	17,9	425
H61346	6x2x1,5	18,5	455
H61347	7x2x1,5	20,6	520
H61348	8x2x1,5	21,6	575
H61349	10x2x1,5	23,3	695
H61350	12x2x1,5	24,9	800
H61351	14x2x1,5	26,6	920
H61352	16x2x1,5	28,7	1070
H61353	18x2x1,5	30,1	1175
H61354	20x2x1,5	31,3	1290
H61355	24x2x1,5	32,2	1480
H61356	2x2x2,5	15,6	320
H61357	3x2x2,5	17,4	370
H61358	4x2x2,5	18,9	455
H61359	5x2x2,5	20,3	565
H61360	6x2x2,5	21,1	610
H61361	7x2x2,5	23,8	715
H61362	8x2x2,5	24,9	795
H61363	10x2x2,5	26,9	960
H61364	12x2x2,5	29,0	1125
H61365	14x2x2,5	31,0	1305
H61366	16x2x2,5	33,4	1515

\*Outer diameter tolerance: +/-5%

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