

BiT 1000®HCH

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



industrial application



internal application



external application



underground installation



EN 60332-1-2



EN 60332-3-24



oxygen index



halogen free
EN 60754



low smoke emission
EN 61034



high flexibility



UV resistance



EMC

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 MΩxkm

Mechanical parameters:

Min. bending radius:

flexible connections: 10 x Ø

fixed installation: 6 x Ø

Design:

Conductors:

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

Insulation:

special halogen-free compound

Core identification:

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

Core arrangement:

cores twisted together

Inner sheath:

special halogen-free compound (single core cables without inner sheath)

Screen:

tinned copper wire braid with coverage ≥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), LOI>29; colour: black

Application:

BiT 1000®HCH 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® HCH 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)). 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]
H61050	2x0,5	9,6	138
H61051	3G0,5	10,0	152
H61052	4G0,5	10,6	172
H61053	5G0,5	11,2	195
H61054	6G0,5	12,0	223
H61055	7G0,5	12,0	227
H61056	8G0,5	13,1	260
H61057	10G0,5	14,9	320
H61058	12G0,5	14,9	325
H61059	14G0,5	15,4	355
H61060	16G0,5	16,3	400
H61061	18G0,5	17,1	435
H61062	19G0,5	17,1	440
H61063	20G0,5	17,8	470
H61064	21G0,5	17,8	475
H61065	25G0,5	20,0	570
H61066	30G0,5	20,6	620
H61067	37G0,5	22,2	720
H61068	2x0,75	10,0	144
H61069	3G0,75	10,2	161

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H61070	4G0,75	11,1	184
H61071	5G0,75	11,8	224
H61072	6G0,75	12,6	250
H61073	7G0,75	12,6	255
H61074	8G0,75	13,8	295
H61075	10G0,75	15,7	365
H61076	12G0,75	15,7	375
H61077	14G0,75	16,5	420
H61078	16G0,75	17,3	465
H61079	18G0,75	18,1	505
H61080	19G0,75	18,1	510
H61081	20G0,75	19,0	560
H61082	21G0,75	19,0	565
H61083	25G0,75	21,2	665
H61084	2x1,0	10,3	157
H61085	3G1,0	10,7	186
H61086	4G1,0	11,4	201
H61087	5G1,0	12,2	244
H61088	6G1,0	13,2	280
H61089	7G1,0	13,2	285

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Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H61090	8G1,0	14,3	325
H61091	10G1,0	16,5	415
H61092	12G1,0	16,5	430
H61093	14G1,0	17,2	470
H61094	16G1,0	18,0	520
H61095	18G1,0	18,8	570
H61096	19G1,0	18,8	575
H61097	20G1,0	19,8	625
H61098	21G1,0	19,8	635
H61099	25G1,0	22,3	770
H61100	2x1,5	11,1	195
H61101	3G1,5	11,6	209
H61102	4G1,5	12,6	250
H61103	5G1,5	13,5	300
H61104	6G1,5	14,4	340
H61105	7G1,5	14,4	350
H61106	8G1,5	15,6	405
H61107	10G1,5	18,2	510
H61108	12G1,5	18,2	535
H60900	2x2,5	12,2	231
H60901	3G2,5	12,9	285
H60902	4G2,5	13,9	330
H60903	5G2,5	15,0	385
H60904	7G2,5	16,3	465
H60905	10G2,5	20,6	685
H60906	14G2,5	21,6	795
H60907	16G2,5	22,9	900
H60908	18G2,5	24,5	1025
H60909	25G2,5	29,0	1385
H60910	2x4	13,5	305
H60911	3G4	14,1	355
H60912	4G4	15,3	430
H60913	5G4	16,4	505
H60914	7G4	17,6	610

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H60915	10G4	22,7	915
H60916	3G6	15,2	445
H60917	4G6	16,8	550
H60918	5G6	18,0	640
H60919	7G6	20,0	795
H60920	3G10	18,6	690
H60921	4G10	20,7	855
H60922	5G10	22,3	995
H60923	7G10	24,3	1245
H60924	3G16	21,0	925
H60925	4G16	23,4	1155
H60926	5G16	25,7	1375
H60927	7G16	27,5	1720
H60928	3G25	25,6	1410
H60929	4G25	28,7	1755
H60930	5G25	30,9	2080
H60931	3G35	28,0	1740
H60932	4G35	31,1	2220
H60933	5G35	33,8	2645
H60934	3G50	33,3	2440
H60935	4G50	37,1	3055
H60936	5G50	40,4	3670
H60937	3G70	38,0	3285
H60938	4G70	41,9	4125
H60939	5G70	46,1	4960
H60940	3G95	42,3	4275
H60941	4G95	47,6	5405
H60942	5G95	52,2	6580
H60943	3G120	45,3	4985
H60944	4G120	51,0	6365
H60945	4G150	57,4	7945
H60946	4G185	64,6	9540
H60947	4G240	71,3	12330

single core cables

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H61150	1x1,5	7,8	90
H61151	1x2,5	8,4	110
H61152	1x4	9,9	176
H61153	1x6	10,5	210
H61154	1x10	11,8	291
H61155	1x16	13,0	387
H61156	1x25	14,9	453
H61157	1x35	16,2	550
H61158	1x50	18,4	748
H61159	1x70	20,5	976
H61160	1x95	22,8	1268
H61161	1x120	24,6	1536
H61162	1x150	26,8	1875
H61163	1x185	29,4	2242
H61164	1x240	32,6	2883
H61165	1x300	36,7	3618

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H61166	1G1,5	7,8	90
H61167	1G2,5	8,4	110
H61168	1G4	9,9	176
H61169	1G6	10,5	210
H61170	1G10	11,8	291
H61171	1G16	13,0	387
H61172	1G25	14,9	453
H61173	1G35	16,2	550
H61174	1G50	18,4	748
H61175	1G70	20,5	976
H61176	1G95	22,8	1268
H61177	1G120	24,6	1536
H61178	1G150	26,8	1875
H61179	1G185	29,4	2242
H61180	1G240	32,6	2883
H61181	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