BiT 1000®H

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

RoHS 2015/863/EU
LVD 2014/35/EU
CPR 305/2011
24 months warranty

industrial application | internal application | external application | underground installation | EN 60332-1-2 | EN 60332-3 | oxygen index | halogen free EN 60754 | low smoke emision EN 61034 | high flexibility | UV resistance

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=0,6/1kV
Test voltage (50Hz): 4000V
Insulation resistance: 20MΩxkm

Mechanical parameters:

Min. bending radius:
flexible connections: 12xØ
fixed installation: 6xØ

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 for sections over 2,5mm² (single core or paired cables without inner sheath)
Outer sheath:	special halogen-free compound, self-extinguishing and flame retardant (acc. to EN 60332-1-2, EN 60332-3-24, cat. C); colour: black

Application:

BiT 1000®H cables 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 designed also for direct burial in ground**. Cables classified according to **EN 50575 (CPR).**

Cat. no.	n x mm²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H60750	2x0,5	8,0	86
H60751	3G0,5	8,4	97
H63000	3x0,5	8,4	97
H60752	4G0,5	9,0	113
H63001	4x0,5	9,0	113
H60753	5G0,5	9,6	132
H63002	5x0,5	9,6	132
H60754	6G0,5	10,4	151
H60755	7G0,5	10,4	155
H63003	7x0,5	10,4	155
H60756	8G0,5	11,3	179
H63004	8x0,5	11,3	179
H60757	10G0,5	13,1	228
H60758	12G0,5	13,1	236
H63005	12x0,5	13,1	236
H60759	14G0,5	13,6	260
H60760	16G0,5	14,3	290
H60761	18G0,5	15,1	320
H61500	21G0,5	15,8	355
H61501	25G0,5	17,8	425
H61502	30G0,5	18,4	470
H63006	32G0,5	19,0	505
H61503	34G0,5	19,8	540
H63007	37G0,5	19,8	555
H63008	42G0,5	22,1	645
H63009	52G0,5	23,2	755
H63010	61G0,5	24,7	860
H60763	2x0,75	8,4	97
H60764	3G0,75	8,8	111
H63011	3x0,75	8,8	111

Cat. no.	n x mm²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H60765	4G0,75	9,5	132
H63012	4x0,75	9,5	132
H60766	5G0,75	10,2	153
H63013	5x0,75	10,2	153
H60767	6G0,75	11,0	175
H63014	6x0,75	11,0	175
H60768	7G0,75	11,0	182
H63015	7x0,75	11,0	182
H60769	8G0,75	12,0	211
H63016	8x0,75	12,0	211
H60770	10G0,75	13,9	265
H60771	12G0,75	13,9	280
H63017	12x0,75	13,9	280
H60772	14G0,75	14,5	310
H60773	16G0,75	15,3	345
H60774	18G0,75	16,1	380
H61504	21G0,75	16,8	425
H61505	25G0,75	19,0	510
H61506	30G0,75	19,6	570
H63018	32G0,75	20,4	615
H61507	34G0,75	21,2	655
H61508	37G0,75	21,2	675
H61509	42G0,75	23,9	795
H61510	52G0,75	24,9	920
H61511	61G0,75	26,7	1070
H60776	2x1,0	8,7	106
H60777	3G1,0	9,2	125
H63019	3x1,0	9,2	125
H60778	4G1,0	9,8	147
H63020	4x1,0	9,8	147

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Cat. no.	n x mm²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H60779	5G1,0	10,6	171
H63021	5x1,0	10,6	171
H60780	6G1,0	11,4	199
H60781	7G1,0	11,4	206
H63022	7x1,0	11,4	206
H60782	8G1,0	12,5	186
H60783	10G1,0	14,5	300
H63023	10x1,0	14,5	300
H60784	12G1,0	14,5	315
H63024	12x1,0	14,5	315
H60785	14G1,0	15,2	355
H60786	16G1,0	16,0	395
H60787	18G1,0	16,8	440
H61512	21G1,0	17,6	490
H61513	25G1,0	19,9	590
H61514	30G1,0	20,6	660
H63025	32G1,0	21,4	710
H61515	34G1,0	22,4	775
H61516	37G1,0	22,4	795
H61517	42G1,0	25,1	925
H61518	52G1,0	26,4	1085
H61519	61G1,0	28,0	1245
H60789	2x1,5	9,5	131
H60790	3G1,5	10,0	153
H63026	3x1,5	10,0	153
H60791	4G1,5	10,8	184
H63027	4x1,5	10,8	184
H60792	5G1,5	11,7	216
H63028	5x1,5	11,7	216
H60793	6G1,5	12,6	252
H60794	7G1,5	12,6	260
H63029	7x1,5	12,6	260
H60795	8G1,5	13,8	305
H60796	10G1,5	16,2	390
H60797	12G1,5	16,2	410
H63030	12x1,5	16,2	410
H60798	14G1,5	16,9	460
H60799	16G1,5	17,9	515
H60800	18G1,5	18,8	575
H61520	21G1,5	19,7	645
H61521	25G1,5	22,6	785
H61522	30G1,5	23,4	880
H63031	32G1,5	24,3	950
H61523	34G1,5	25,2	1020
H61524	37G1,5	25,2	1050
H61525	42G1,5	28,7	1250
H61526	52G1,5	29,9	1455
H61527	61G1,5	32,0	1690
H60802	2x2,5	10,6	169
H60803	3G2,5	11,1	202
H63032	3x2,5	11,1	202
H60804	4G2,5	12,1	245
H63033	4x2,5	12,1	245
H60805	5G2,5	13,2	290
H63034	5x2,5	13,2	290
H60806	7G2,5	14,3	355
H63035	7x2,5	14,3	355

Cat. no.	n x mm²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H61529	8G2,5	15,7	415
H61530	10G2,5	18,4	530
H60807	12G2,5	18,4	565
H61531	14G2,5	19,4	635
H60808	16G2,5	20,5	720
H60809	18G2,5	21,6	800
H61532	21G2,5	22,8	915
H61533	25G2,5	26,1	1115
H61534	30G2,5	27,1	1250
H63036	32G2,5	28,2	1350
H63037	34G2,5	29,5	1465
H63038	37G2,5	29,5	1515
H63039	42G2,5	33,3	1775
H63040	52G2,5	35,0	2095
H63041	61G2,5	37,2	2415
H60811	2x4	12,8	275
H60812	3G4	13,4	320
H63042	3x4	13,4	390
H60813	4G4	14,6	460
H60814	5G4	15,9	565
H60815	7G4	17,1	845
H61535	10G4	22,2	1040
H61536	14G4	23,7	108
H63043	2x6	14,0	340
H60817	3G6	14,7	410
H60818	4G6	16,3	505
H60819	5G6	17,5	595
H60820	7G6	18,9	735
H61537	10G6	25,1	1135
H60821	3G10	18,1	640
H60822	4G10	20,2	800
H60823	5G10	21,6	940
H60824	7G10	23,6	1185
H60825	3G16	20,5	875
H60826	4G16	22,8	1095
H60827	5G16	24,5	1300
H60828	7G16	26,8	1650
H60829	3G25	25,1	1345
H60830	4G25	27,8	1670
H60831	5G25	30,2	2005
H60832	3G35	27,3	1670
H60833	4G35	30,4	2100
H60834	5G35	33,1	2530
H60835	3G50	32,2	2335
H60836	4G50	36,0	2935
H60837	5G50	39,1	3540
H60838	3G70	36,7	3150
H60839	4G70	41,2	3995
H60840	5G70	44,8	4820
H60841	3G95	41,6	4145
H60842	4G95	46,5	5235
H60843	5G95	51,3	6415
H60844	3G120	44,6	5035
H60845	4G120	49,9	6390
H60846	4G150	56,5	7975
H60847	4G185	61,6	9610
H60848	4G240	70,2	12380

*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

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paired cables

Cat. no.	nx2xmm²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H61560	2x2x0,5	10,8	144
H61561	3x2x0,5	12,0	156
H61562	4x2x0,5	12,9	185
H61563	5x2x0,5	13,9	226
H61564	6x2x0,5	14,3	237
H61565	7x2x0,5	16,0	270
H61566	8x2x0,5	16,7	295
H61567	10x2x0,5	17,9	345
H61568	12x2x0,5	19,0	395
H61569	14x2x0,5	20,2	445
H61570	16x2x0,5	21,6	520
H61571	18x2x0,5	22,8	555
H61572	20x2x0,5	23,5	600
H61573	24x2x0,5	24,2	685
H61574	2x2x0,75	11,5	161
H61575	3x2x0,75	12,7	180
H61576	4x2x0,75	13,8	214
H61577	5x2x0,75	14,8	260
H61578	6x2x0,75	15,3	275
H61579	7x2x0,75	17,1	315
H61580	8x2x0,75	17,8	350
H61581	10x2x0,75	19,1	410
H61582	12x2x0,75	20,4	475
H61583	14x2x0,75	21,7	545
H61584	16x2x0,75	23,4	625
H61585	18x2x0,75	24,4	670
H61586	20x2x0,75	25,4	740
H61587	24x2x0,75	26,1	850
H61588	2x2x1,0	11,9	181
H61589	3x2x1,0	13,3	202
H61590	4x2x1,0	14,4	242
H61591	5x2x1,0	15,5	300
H61592	6x2x1,0	16,0	315

Cat. no.	nx2xmm²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H61593	7x2x1,0	17,9	360
H61594	8x2x1,0	18,7	400
H61595	10x2x1,0	20,0	475
H61596	12x2x1,0	21,4	545
H61597	14x2x1,0	22,9	630
H61598	16x2x1,0	24,6	735
H61599	18x2x1,0	25,8	790
H61600	20x2x1,0	26,7	860
H61601	24x2x1,0	27,5	990
H61602	2x2x1,5	13,2	221
H61603	3x2x1,5	14,8	251
H61604	4x2x1,5	16,0	300
H61605	5x2x1,5	17,3	375
H61606	6x2x1,5	17,9	400
H61607	7x2x1,5	20,0	465
H61608	8x2x1,5	21,0	515
H61609	10x2x1,5	22,7	625
H61610	12x2x1,5	24,3	720
H61611	14x2x1,5	26,0	835
H61612	16x2x1,5	27,9	970
H61613	18x2x1,5	29,3	1045
H61614	20x2x1,5	30,3	1140
H61615	24x2x1,5	31,4	1335
H61616	2x2x2,5	15,0	285
H61617	3x2x2,5	16,8	330
H61618	4x2x2,5	18,3	405
H61619	5x2x2,5	19,7	510
H61620	6x2x2,5	20,5	550
H61621	7x2x2,5	23,2	645
H61622	8x2x2,5	24,3	715
H61623	10x2x2,5	26,3	875
H61624	12x2x2,5	28,4	1030
H61625	14x2x2,5	30,2	1175
H61626	16x2x2,5	32,6	1370

single core cables

Cat. no.	n x mm²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H60850	1x1,5	5,8	52
H60851	1x2,5	6,4	66
H60852	1x4	6,8	85
H60853	1x6	7,4	108
H60854	1x10	8,7	156
H60855	1x16	9,7	216
H60856	1x25	11,4	310
H60857	1x35	12,5	410
H60858	1x50	14,7	575
H60859	1x70	16,6	775
H60860	1x95	18,7	1020
H60861	1x120	20,5	1250
H60862	1x150	22,5	1545
H60863	1x185	25,1	885
H60864	1x240	28,1	2440
H60865	1x300	31,8	3190
H60882	1x400	35,5	4135
H60884	1x500	40,8	5180

Cat. no.	n x mm²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H60866	1G1,5	5,8	52
H60867	1G2,5	6,4	66
H60868	1G4	6,8	85
H60869	1G6	7,4	108
H60870	1G10	8,7	156
H60871	1G16	9,7	216
H60872	1G25	11,4	310
H60873	1G35	12,5	410
H60874	1G50	14,7	575
H60875	1G70	16,6	775
H60876	1G95	18,7	1020
H60877	1G120	20,5	1250
H60878	1G150	22,5	1545
H60879	1G185	25,1	885
H60880	1G240	28,1	2440
H60881	1G300	31,8	3190
H60883	1G400	35,5	4135
H60885	1G500	40,8	5180

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