BiT 1000®(St)H

Flexible, halogen-free, screened control cables with number coded conductors, 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 >29 | halogen-free EN EN 60754 | low smoke emission 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, number coded conductors, cables with protective earth conductor marked G (e.g. 7G1,5)
Core arrangement:	cores twisted together or pairs twisted together
Screen:	aluminum backed polyester tape with tinned copper drain wire
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, UV resistant

Application:

Flexible, halogen-free power and control cables designed for operation in control and protective devices as well as in control circuits. Common screen improves protection of transmitted signals against external electromagnetic field. Designed especially for installation in industrial areas with increased fire safety requirements (limited flame propagation). They are suitable for fixed installations and for flexible connections in industrial devices, technological lines and machines operating in dry and damp rooms. **Cables suitable for outdoor installation – outer sheath is UV resistant. Cables designed also for direct burial in ground**. Cables are halogen-free, low smoke and significantly limit flame propagation. Cables classified according to **EN 50575 (CPR).**

Cat. no.	n x mm²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H61800	2x0,5	8,4	85
H61801	3G0,5	8,8	95
H61750	3x0,5	8,8	95
H61802	4G0,5	9,4	110
H61751	4x0,5	9,4	110
H61803	5G0,5	10,0	130
H61752	5x0,5	10,0	130
H61804	6G0,5	10,8	149
H61805	7G0,5	10,8	154
H61753	7x0,5	10,8	154
H61806	8G0,5	11,7	177
H61754	8x0,5	11,7	177
H61807	10G0,5	13,5	221
H61808	12G0,5	13,5	230
H61755	12x0,5	13,5	230
H61809	14G0,5	14,0	255
H61810	16G0,5	14,7	285
H61811	18G0,5	15,5	315
H61756	19G0,5	15,5	320
H61812	21G0,5	16,2	350
H61813	25G0,5	18,2	415
H61757	27G0,5	18,2	425
H61814	30G0,5	18,8	460
H61815	34G0,5	20,2	535
H61758	37G0,5	20,2	545
H61759	40G0,5	20,9	585
H61760	42G0,5	22,7	640
H61761	52G0,5	23,6	740
H61762	61G0,5	25,1	850

Cat. no.	n x mm²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H61816	2x0,75	8,6	93
H61817	3G0,75	9,0	105
H61763	3x0,75	9,0	105
H61818	4G0,75	9,7	126
H61764	4x0,75	9,7	126
H61819	5G0,75	10,4	148
H61765	5x0,75	10,4	148
H61820	6G0,75	11,2	171
H61766	6x0,75	11,2	171
H61821	7G0,75	11,2	177
H61767	7x0,75	11,2	177
H61822	8G0,75	12,4	206
H61768	8x0,75	12,4	206
H61823	10G0,75	14,3	255
H61769	12G0,75	14,3	270
H61824	12x0,75	14,3	270
H61825	14G0,75	14,9	300
H61826	16G0,75	15,7	340
H61827	18G0,75	16,5	375
H61770	19G0,75	16,5	380
H61828	21G0,75	17,2	420
H61829	25G0,75	19,4	500
H61771	27G0,75	19,4	510
H61830	30G0,75	20,0	555
H61831	34G0,75	21,6	645
H61832	37G0,75	21,6	665
H61772	40G0,75	22,5	725
H61833	42G0,75	24,3	775
H61834	52G0,75	25,2	915
H61835	61G0,75	27,1	1050

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Cat. no.	n x mm²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H61836	2x1,0	8,9	102
H61837	3G1,0	9,3	114
H61773	3x1,0	9,3	114
H61838	4G1,0	10,0	138
H61774	4x1,0	10,0	138
H61839	5G1,0	10,8	160
H61775	5x1,0	10,8	160
H61840	6G1,0	11,8	186
H61776	6x1,0	11,8	186
H61841	7G1,0	11,8	194
H61777	7x1,0	11,8	194
H61842	8G1,0	12,9	220
H61843	10G1,0	14,9	285
H61778	10x1,0	14,9	285
H61844	12G1,0	14,9	300
H61779	12x1,0	14,9	300
H61845	14G1,0	15,6	335
H61846	16G1,0	16,4	375
H61847	18G1,0	17,2	415
H61780	18x1,0	17,2	415
H61781	19G1,0	17,2	425
H61848	21G1,0	18,0	460
H61849	25G1,0	20,3	555
H61782	27G1,0	20,3	570
H61850	30G1,0	21,0	620
H61851	34G1,0	22,8	730
H61852	37G1,0	22,8	750
H61783	40G1,0	23,6	800
H61853	42G1,0	25,7	880
H61854	52G1,0	26,8	1020
H61855	61G1,0	28,6	1185
H61856	2x1,5	9,7	120
H61857	3G1,5	10,2	138
H61784	3x1,5	10,2	138
H61858	4G1,5	11,0	168
H61785	4x1,5	11,0	168
H61859	5G1,5	12,1	200
H61786	5x1,5	12,1	200
H61860	6G1,5	13,0	235
H61787	6x1,5	13,0	235
H61861	7G1,5	13,0	245
H61788	7x1,5	13,0	245

Cat. no.	n x mm²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H61862	8G1,5	14,2	295
H61863	10G1,5	16,6	375
H61789	10x1,5	16,6	375
H61864	12G1,5	16,6	395
H61790	12x1,5	16,6	395
H61865	14G1,5	17,3	445
H61866	16G1,5	18,3	500
H61867	18G1,5	19,2	560
H61791	19G1,5	19,2	570
H61868	21G1,5	20,1	630
H61869	25G1,5	23,0	765
H61792	27G1,5	23,0	790
H61870	30G1,5	23,8	860
H61871	34G1,5	25,8	1010
H61872	37G1,5	25,8	1045
H61793	40G1,5	26,7	1125
H61873	42G1,5	29,1	1220
H61874	52G1,5	30,3	1430
H61875	61G1,5	32,4	1660
H61876	2x2,5	10,8	159
H61877	3G2,5	11,3	185
H61794	3x2,5	11,3	185
H61878	4G2,5	12,5	231
H61795	4x2,5	12,5	231
H61879	5G2,5	13,6	275
H61796	5x2,5	13,6	275
H61880	6G2,5	14,7	325
H61797	6x2,5	14,7	325
H61881	7G2,5	14,7	340
H61798	7x2,5	14,7	340
H61883	10G2,5	18,8	505
H61884	12G2,5	18,8	540
H61799	12x2,5	18,8	540
H61885	14G2,5	19,8	615
H61886	16G2,5	20,9	695
H61887	18G2,5	22,0	775
H61888	21G2,5	23,2	890
H61889	25G2,5	26,5	1080
H61890	30G2,5	27,5	1220
H61891	34G2,5	29,9	1430
H61892	37G2,5	29,9	1485
H61893	42G2,5	33,7	1730

*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]
H61900	2x2x0,5	11,2	145
H61901	3x2x0,5	12,4	159
H61902	4x2x0,5	13,3	188
H61903	5x2x0,5	14,3	230
H61904	6x2x0,5	14,7	242
H61905	7x2x0,5	16,4	275
H61906	8x2x0,5	17,1	300
H61907	10x2x0,5	18,3	355
H61908	12x2x0,5	19,4	405
H61909	14x2x0,5	20,6	460
H61910	16x2x0,5	22,2	535
H61911	18x2x0,5	23,2	575
H61912	20x2x0,5	23,9	620
H61913	24x2x0,5	24,6	710
H61914	2x2x0,75	11,9	193
H61915	3x2x0,75	13,1	182
H61916	4x2x0,75	14,2	218
H61917	5x2x0,75	15,2	265
H61918	6x2x0,75	15,7	285
H61919	7x2x0,75	17,5	325
H61920	8x2x0,75	18,2	360
H61921	10x2x0,75	19,5	420
H61922	12x2x0,75	20,8	485
H61923	14x2x0,75	22,3	560
H61924	16x2x0,75	23,8	645
H61925	18x2x0,75	24,8	690
H61926	20x2x0,75	25,8	765
H61927	24x2x0,75	26,5	875
H61928	2x2x1,0	12,3	183
H61929	3x2x1,0	13,7	205
H61930	4x2x1,0	14,8	247
H61931	5x2x1,0	15,9	305
H61932	6x2x1,0	16,4	320

Cat. no.	nx2xmm²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H61933	7x2x1,0	18,3	370
H61934	8x2x1,0	19,1	410
H61935	10x2x1,0	20,4	485
H61936	12x2x1,0	21,8	560
H61937	14x2x1,0	23,3	645
H61938	16x2x1,0	25,2	755
H61939	18x2x1,0	26,2	810
H61940	20x2x1,0	27,1	885
H61941	24x2x1,0	27,9	1020
H61942	2x2x1,5	13,6	223
H61943	3x2x1,5	15,2	255
H61944	4x2x1,5	16,4	305
H61945	5x2x1,5	17,7	385
H61946	6x2x1,5	18,3	410
H61947	7x2x1,5	20,4	475
H61948	8x2x1,5	21,4	525
H61949	10x2x1,5	23,1	640
H61950	12x2x1,5	24,7	740
H61951	14x2x1,5	26,4	855
H61952	16x2x1,5	28,5	1000
H61953	18x2x1,5	29,7	1075
H61954	20x2x1,5	30,7	1175
H61955	24x2x1,5	31,8	1375
H61956	2x2x2,5	15,4	290
H61957	3x2x2,5	17,2	335
H61958	4x2x2,5	18,7	410
H61959	5x2x2,5	20,1	520
H61960	6x2x2,5	20,9	560
H61961	7x2x2,5	23,6	660
H61962	8x2x2,5	24,7	730
H61963	10x2x2,5	26,7	890
H61964	12x2x2,5	28,8	1055
H61965	14x2x2,5	30,6	1200
H61966	16x2x2,5	33,0	1400

*Outer diameter tolerance: +/-5%
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Note: On customer's request other cross sections or number of cores can be produced