

BiT 1000[®] 2(St)H

Halogen-free, individually and collectively screened flexible control cables, rated 0,6/1kV



industrial application



internal application



external application



underground installation



EN 60332-1-2



EN 60332-3



oxygen index >29



halogen-free 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: $U_i/U=0,6/1kV$
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

Core arrangement:

cores twisted together or pairs twisted together

Individual screen:

aluminium backed polyester tape with tinned copper drain wire on each pair

Collective screen:

aluminium 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.	nx2xmm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H62010	2x2x0,5	11,2	157
H62011	3x2x0,5	12,4	178
H62012	4x2x0,5	13,8	217
H62013	5x2x0,5	14,3	260
H62014	6x2x0,5	14,7	280
H62015	7x2x0,5	16,4	320
H62016	8x2x0,5	17,3	355
H62017	10x2x0,5	18,3	415
H62018	12x2x0,5	19,9	485
H62019	14x2x0,5	21,1	550
H62020	16x2x0,5	22,7	640
H62021	18x2x0,5	23,6	690
H62022	20x2x0,5	24,6	755
H62023	24x2x0,5	26,7	890
H62024	2x2x0,75	11,9	175
H62025	3x2x0,75	13,1	202
H62026	4x2x0,75	14,7	249
H62027	5x2x0,75	15,2	300
H62028	6x2x0,75	15,7	320
H62029	7x2x0,75	17,5	370
H62030	8x2x0,75	18,5	410
H62031	10x2x0,75	19,5	485
H62032	12x2x0,75	21,3	570
H62033	14x2x0,75	22,8	655
H62034	16x2x0,75	24,3	750

Cat. no.	nx2xmm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H62035	18x2x0,75	25,5	825
H62036	20x2x0,75	26,5	900
H62037	24x2x0,75	28,8	1065
H62038	2x2x1,0	12,3	200
H62039	3x2x1,0	13,7	231
H62040	4x2x1,0	15,3	285
H62041	5x2x1,0	15,9	345
H62042	6x2x1,0	16,4	375
H62043	7x2x1,0	18,3	430
H62044	8x2x1,0	19,4	480
H62045	10x2x1,0	20,4	570
H62046	12x2x1,0	22,5	680
H62047	14x2x1,0	23,9	770
H62048	16x2x1,0	25,7	900
H62049	18x2x1,0	26,8	970
H62050	20x2x1,0	27,9	1060
H62051	24x2x1,0	30,2	1260
H62052	2x2x1,5	13,6	240
H62053	3x2x1,5	15,2	280
H62054	4x2x1,5	17,0	350
H62055	5x2x1,5	17,7	430
H62056	6x2x1,5	18,3	465
H62057	7x2x1,5	20,4	535
H62058	8x2x1,5	21,7	600
H62059	10x2x1,5	23,1	725

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Cat. no.	nx2xmm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H62060	12x2x1,5	25,5	865
H62061	14x2x1,5	27,0	985
H62062	16x2x1,5	29,1	1145
H62063	18x2x1,5	30,3	1240
H62064	20x2x1,5	31,8	1375
H62065	24x2x1,5	34,5	1630
H62066	2x2x2,5	15,4	305
H62067	3x2x2,5	17,2	360

Cat. no.	nx2xmm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H62068	4x2x2,5	19,4	455
H62069	5x2x2,5	20,1	565
H62070	6x2x2,5	20,9	615
H62071	7x2x2,5	23,6	725
H62072	8x2x2,5	25,1	810
H62073	10x2x2,5	26,7	985
H62074	12x2x2,5	29,5	1175
H62075	14x2x2,5	31,5	1355
H62076	16x2x2,5	33,7	1560

*Outer diameter tolerance: +/-5%;
Cable Factory BITNER reserves the right to modify the specifications without prior notice
Note: On customer's request other cross sections or number of cores can be produced