



industrial application



internal application



EN 60332-1-2



EN 60332-3



oxygen index



halogen-free
EN 60754



low smoke emission
EN 61034



high flexibility

Technical data:

Thermal parameters:

Operating temperature:

fixed installation: -40 °C to 80 °C

flexible connections: -5 °C to 80 °C

Electrical parameters:

Operating voltage: $U_i/U=300/500$ V

Test voltage (50Hz): 3000V

Mechanical parameters:

Insulation resistance: 20MΩxkm

Min. bending radius:

fixed installation: 5xØ

flexible connections: 10xØ

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

Outer sheath:

special halogen-free compound, self-extinguishing and flame

retardant (acc. to EN 60332-1-2, EN 60332-3-24, cat. C);

colour: grey

Application:

Flexible, halogen-free power and control cables designed for operation in control and protective devices as well as in control circuits. 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 are halogen-free, low smoke and significantly limit flame propagation. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H50001	2x0,5	5,0	36
H50002	3G0,5	5,3	43
H50003	3x0,5	5,3	43
H50004	4G0,5	5,8	51
H50005	4x0,5	5,8	51
H50006	5G0,5	6,3	62
H50007	5x0,5	6,3	62
H50008	6G0,5	7,0	74
H50009	7G0,5	7,0	78
H50010	7x0,5	7,0	78
H50011	8G0,5	7,7	91
H50012	8x0,5	7,7	91
H50013	10G0,5	9,4	118
H50014	12G0,5	9,4	132
H50015	12x0,5	9,4	132
H50016	14G0,5	9,8	147
H50017	16G0,5	10,4	165
H50018	18G0,5	10,9	183
H50019	19G0,5	10,9	187
H50021	21G0,5	11,6	211
H50102	25G0,5	13,1	239
H50023	27G0,5	13,1	260
H50024	30G0,5	13,8	289
H51815	34G0,5	14,8	335
H50025	37G0,5	14,8	343
H51816	40G0,5	15,3	370
H51817	42G0,5	16,9	415
H51818	50G0,5	17,6	475
H51819	56G0,5	18,4	525
H51820	61G0,5	18,9	560

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H50026	2x0,75	5,4	44
H50027	3G0,75	5,7	53
H50028	3x0,75	5,7	53
H50029	4G0,75	6,3	63
H50030	4x0,75	6,3	63
H50031	5G0,75	7,0	81
H50032	5x0,75	7,0	81
H50033	6G0,75	7,6	95
H50034	6x0,75	7,6	95
H50035	7G0,75	7,6	99
H50036	7x0,75	7,6	99
H50037	8G0,75	8,4	114
H50038	8x0,75	8,4	114
H50039	10G0,75	10,2	147
H50040	12G0,75	10,2	166
H50041	12x0,75	10,2	166
H50042	14G0,75	10,7	186
H50043	16G0,75	11,5	216
H50044	18G0,75	12,1	240
H50045	19G0,75	12,1	244
H50047	21G0,75	12,7	268
H50103	25G0,75	14,5	311
H51821	27G0,75	14,5	345
H51822	30G0,75	15,0	375
H51823	34G0,75	16,6	450
H51824	37G0,75	16,6	465
H51825	40G0,75	17,2	500
H51826	42G0,75	18,7	545
H51827	50G0,75	19,5	625
H51828	56G0,75	20,1	675
H51829	61G0,75	20,7	725

BiT 500[®]H

Flexible, halogen-free control cables
with number coded conductors, rated 300/500V

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H50049	2x1,0	5,7	50
H50050	3G1,0	6,1	62
H50051	3x1,0	6,1	62
H50052	4G1,0	6,8	78
H50053	4x1,0	6,8	78
H50054	5G1,0	7,4	95
H50055	5x1,0	7,4	95
H50056	6G1,0	8,0	113
H50057	6x1,0	8,0	113
H50058	7G1,0	8,0	117
H50059	7x1,0	8,0	117
H50060	8G1,0	9,3	145
H50061	10G1,0	10,9	174
H50062	10x1,0	10,9	174
H50063	12G1,0	10,9	197
H50064	12x1,0	10,9	197
H50065	14G1,0	11,6	228
H50066	16G1,0	12,2	257
H50067	18G1,0	12,8	287
H50068	18x1,0	12,8	287
H50069	19G1,0	12,8	292
H50072	21G1,0	13,7	328
H50104	25G1,0	15,5	372
H51830	27G1,0	15,5	415
H51831	30G1,0	16,4	470
H51832	34G1,0	17,6	540
H51833	37G1,0	17,6	560
H51834	40G1,0	18,5	610
H51835	42G1,0	19,9	655
H51836	50G1,0	20,8	755
H51837	56G1,0	21,6	830
H51838	61G1,0	22,2	890
H50074	2x1,5	6,7	66
H50075	3G1,5	7,1	86
H50076	3x1,5	7,1	86
H50077	4G1,5	7,8	105
H50078	4x1,5	7,8	105
H50079	5G1,5	8,5	128
H50080	5x1,5	8,5	128
H50081	6G1,5	9,6	162
H50106	6x1,5	9,6	162
H50082	7G1,5	9,6	169
H50083	7x1,5	9,6	169
H50084	8G1,5	10,6	196
H50085	10G1,5	12,7	265
H50107	10x1,5	12,7	265
H50086	12G1,5	12,7	275
H50087	12x1,5	12,7	275

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H51839	14G1,5	13,5	325
H51840	16G1,5	14,3	370
H50105	18G1,5	15,0	410
H51841	19G1,5	15,0	420
H51842	21G1,5	16,2	475
H51843	25G1,5	18,5	580
H51844	27G1,5	18,5	600
H51845	30G1,5	19,2	655
H51846	34G1,5	20,6	755
H51847	37G1,5	20,6	785
H51848	40G1,5	21,6	855
H51849	42G1,5	23,3	920
H51850	50G1,5	24,7	1080
H51851	56G1,5	25,5	1180
H51852	61G1,5	26,2	1270
H50088	2x2,5	7,8	100
H50089	3G2,5	8,3	125
H50090	3x2,5	8,3	125
H50091	4G2,5	9,5	163
H50092	4x2,5	9,5	163
H50093	5G2,5	10,4	199
H50094	5x2,5	10,4	199
H50108	6x2,5	11,5	243
H50095	6G2,5	11,5	243
H50096	7G2,5	11,5	256
H50097	7x2,5	11,5	256
H50098	8G2,5	12,5	298
H50099	10G2,5	15,2	368
H50100	12G2,5	15,2	420
H50101	12x2,5	15,2	420
H51853	14G2,5	16,4	495
H51854	16G2,5	17,3	560
H51855	18G2,5	18,4	630
H51856	21G2,5	19,3	710
H51857	25G2,5	22,1	870
H51858	30G2,5	22,9	985
H51859	34G2,5	25,1	1160
H51860	37G2,5	25,1	1210
H51861	42G2,5	28,1	1390
H51862	50G2,5	29,4	1610
H51863	2x4,0	9,3	152
H51864	3G4,0	10,3	202
H51871	3x4,0	10,3	202
H51865	4G4,0	11,3	255
H51866	5G4,0	12,6	310
H51867	7G4,0	13,7	395
H51868	10G4,0	18,7	615
H51869	12G4,0	18,7	675

*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 ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H52000	2x2x0,5	7,3	63
H52001	3x2x0,5	8,2	72
H52002	4x2x0,5	9,3	97
H52003	5x2x0,5	10,0	122
H52004	6x2x0,5	10,4	130
H52005	7x2x0,5	11,8	156
H52006	8x2x0,5	12,3	172
H52007	10x2x0,5	13,2	205
H52008	12x2x0,5	14,3	245
H52009	14x2x0,5	15,1	275
H52010	16x2x0,5	16,6	335
H52011	18x2x0,5	17,3	360
H52012	20x2x0,5	17,8	390
H52013	24x2x0,5	18,5	455
H52014	2x2x0,75	8,0	80
H52015	3x2x0,75	9,4	98
H52016	4x2x0,75	10,1	122
H52017	5x2x0,75	10,9	152
H52018	6x2x0,75	11,5	170
H52019	7x2x0,75	12,9	196
H52020	8x2x0,75	13,7	225
H52021	10x2x0,75	14,6	270
H52022	12x2x0,75	16,0	325
H52023	14x2x0,75	17,0	370
H52024	16x2x0,75	18,4	435
H52025	18x2x0,75	19,1	470
H52026	20x2x0,75	19,7	510
H52027	24x2x0,75	20,3	590
H52028	2x2x1,0	8,5	92
H52029	3x2x1,0	9,9	116
H52030	4x2x1,0	10,8	142
H52031	5x2x1,0	11,8	184
H52032	6x2x1,0	12,2	202

Cat. no.	nx2xmm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
H52033	7x2x1,0	13,9	240
H52034	8x2x1,0	14,5	270
H52035	10x2x1,0	15,6	320
H52036	12x2x1,0	17,0	390
H52037	14x2x1,0	18,3	450
H52038	16x2x1,0	19,5	515
H52039	18x2x1,0	20,4	560
H52040	20x2x1,0	21,0	610
H52041	24x2x1,0	21,8	720
H52042	2x2x1,5	10,1	132
H52043	3x2x1,5	11,6	160
H52044	4x2x1,5	12,6	198
H52045	5x2x1,5	13,8	258
H52046	6x2x1,5	14,3	280
H52047	7x2x1,5	16,4	340
H52048	8x2x1,5	17,2	380
H52049	10x2x1,5	18,6	465
H52050	12x2x1,5	19,9	540
H52051	14x2x1,5	21,1	620
H52052	16x2x1,5	22,8	720
H52053	18x2x1,5	23,8	785
H52054	20x2x1,5	25,0	880
H52055	24x2x1,5	25,7	1020
H52056	2x2x2,5	12,1	192
H52057	3x2x2,5	13,8	235
H52058	4x2x2,5	15,1	295
H52059	5x2x2,5	16,7	385
H52060	6x2x2,5	17,3	425
H52061	7x2x2,5	19,6	500
H52062	8x2x2,5	20,5	560
H52063	10x2x2,5	22,3	690
H52064	12x2x2,5	23,8	805
H52065	14x2x2,5	25,7	945
H52066	16x2x2,5	27,5	1085

*Outer diameter tolerance: +/-5%

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