

BiT 500®(St)CH

Flexible, double screened, halogen-free control cables, number conductors, 300/500V



Technical data:

Thermal parameters:

Operating temperature:

fixed installation: -40 °C to 80 °C

flexible connections: -5 °C to 70 °C

Electrical parameters:

Operating voltage: $U_0/U=300/500V$

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

Screen:

electrostatic screen made of aluminium backed polyester tape and a second screen made of tinned copper wire braid, total screen coverage 100%

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. Common screen of tinned copper wire braid and metalized tape ensures very good protection against external electromagnetic field (screen attenuation ca. 50dB). Cables are halogenfree, low smoke and significantly limit flame propagation.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB9700	2x0,5	5,6	44
SB9701	3G0,5	5,9	48
SB9702	3x0,5	5,9	48
SB9703	4G0,5	6,4	58
SB9704	4x0,5	6,4	58
SB9705	5G0,5	7,1	72
SB9706	5x0,5	7,1	72
SB9707	6G0,5	7,6	84
SB9708	7G0,5	7,6	88
SB9709	7x0,5	7,6	88
SB9710	8G0,5	8,6	110
SB9711	8x0,5	8,6	110
SB9712	10G0,5	10,2	145
SB9713	12G0,5	10,2	155
SB9714	12x0,5	10,2	155
SB9715	14G0,5	10,6	170
SB9716	16G0,5	11,3	190
SB9717	18G0,5	11,9	220
SB9718	19G0,5	12,0	220
SB9720	21G0,5	12,4	240
SB9722	25G0,5	14,1	295
SB9723	27G0,5	14,1	300
SB9724	30G0,5	14,7	325
SB9726	34G0,5	15,6	370
SB9727	37G0,5	15,6	385
SB9728	40G0,5	16,6	425
SB9729	42G0,5	17,7	455
SB9730	50G0,5	18,5	525

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB9731	56G0,5	19,3	570
SB9732	61G0,5	19,7	610
SB9733	2x0,75	6,0	52
SB9734	3G0,75	6,4	58
SB9735	3x0,75	6,4	58
SB9736	4G0,75	7,1	74
SB9737	4x0,75	7,1	74
SB9738	5G0,75	7,6	88
SB9739	5x0,75	7,6	88
SB9740	6G0,75	8,4	112
SB9741	6x0,75	8,4	112
SB9742	7G0,75	8,4	118
SB9743	7x0,75	8,4	118
SB9744	8G0,75	9,6	142
SB9745	8x0,75	9,6	142
SB9746	10G0,75	10,9	180
SB9747	12G0,75	10,9	190
SB9748	12x0,75	10,9	190
SB9749	14G0,75	11,7	220
SB9750	16G0,75	12,3	245
SB9751	18G0,75	12,9	275
SB9752	19G0,75	12,9	280
SB9754	21G0,75	13,5	305
SB9756	25G0,75	15,3	370
SB9757	27G0,75	15,3	380
SB9758	30G0,75	16,2	425
SB9760	34G0,75	17,4	490
SB9761	37G0,75	17,4	505

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Flexible, double screened, halogen-free control cables, number conductors, 300/500V

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB9762	40G0,75	18,0	540
SB9763	42G0,75	19,6	590
SB9764	50G0,75	20,3	670
SB9765	56G0,75	20,9	725
SB9766	61G0,75	21,7	790
SB9767	2x1,0	6,4	57
SB9768	3G1,0	6,7	69
SB9769	3x1,0	6,7	69
SB9770	4G1,0	7,3	84
SB9771	4x1,0	7,3	84
SB9772	5G1,0	8,3	111
SB9773	5x1,0	8,3	111
SB9774	6G1,0	8,8	129
SB9775	6x1,0	8,8	129
SB9776	7G1,0	8,8	138
SB9777	7x1,0	8,8	138
SB9778	8G1,0	10,2	165
SB9779	10G1,0	11,7	215
SB9780	10x1,0	11,7	215
SB9781	12G1,0	11,7	230
SB9782	12x1,0	11,7	230
SB9783	14G1,0	12,5	260
SB9784	16G1,0	13,1	290
SB9785	18G1,0	13,9	330
SB9786	18x1,0	13,9	330
SB9787	19G1,0	13,9	335
SB9789	21G1,0	14,5	365
SB9791	25G1,0	16,7	455
SB9792	27G1,0	16,7	465
SB9793	30G1,0	17,2	505
SB9795	34G1,0	18,6	590
SB9796	37G1,0	18,6	610
SB9797	40G1,0	19,4	655
SB9798	42G1,0	20,7	700
SB9799	50G1,0	21,8	815
SB9800	56G1,0	22,5	885
SB9801	61G1,0	23,0	950
SB9802	2x1,5	7,4	88
SB9803	3G1,5	7,7	99
SB9804	3x1,5	7,7	99
SB9805	4G1,5	8,6	122
SB9806	4x1,5	8,6	122
SB9807	5G1,5	9,7	156
SB9808	5x1,5	9,7	156
SB9809	6G1,5	10,4	182
SB9810	6x1,5	10,4	182
SB9811	7G1,5	10,4	192
SB9812	7x1,5	10,4	192
SB9813	8G1,5	11,3	220
SB9814	10G1,5	13,6	290

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB9815	10x1,5	13,6	290
SB9816	12G1,5	13,6	310
SB9817	12x1,5	13,6	310
SB9818	14G1,5	14,3	355
SB9819	16G1,5	15,2	410
SB9820	18G1,5	16,2	455
SB9821	19G1,5	16,2	465
SB9823	21G1,5	17,0	515
SB9825	25G1,5	19,3	620
SB9826	27G1,5	19,3	640
SB9827	30G1,5	20,0	700
SB9829	34G1,5	21,6	810
SB9830	37G1,5	21,6	840
SB9831	40G1,5	22,4	910
SB9832	42G1,5	24,1	970
SB9833	50G1,5	25,5	1140
SB9834	56G1,5	26,3	1240
SB9835	61G1,5	27,0	1330
SB9836	2x2,5	8,4	112
SB9837	3G2,5	9,5	144
SB9838	3x2,5	9,5	144
SB9839	4G2,5	10,3	180
SB9840	4x2,5	10,3	180
SB9841	5G2,5	11,2	216
SB9842	5x2,5	11,2	216
SB9843	6G2,5	12,3	265
SB9844	6x2,5	12,3	265
SB9845	7G2,5	12,3	280
SB9846	7x2,5	12,3	280
SB9847	10G2,5	16,5	430
SB9848	12G2,5	16,5	465
SB9849	12x2,5	16,5	465
SB9850	14G2,5	17,2	525
SB9851	16G2,5	17,2	590
SB9852	18G2,5	19,2	665
SB9855	21G2,5	20,1	750
SB9857	25G2,5	22,9	910
SB9859	30G2,5	23,7	1030
SB9861	34G2,5	25,9	1210
SB9862	37G2,5	25,9	1260
SB9864	42G2,5	29,1	1470
SB9865	50G2,5	30,5	1700
SB9868	2x4,0	10,6	170
SB9869	3G4,0	11,3	200
SB9870	3x4,0	11,3	200
SB9871	4G4,0	12,3	270
SB9872	5G4,0	13,3	325
SB9873	7G4,0	14,7	425
SB9874	10G4,0	19,8	645
SB9875	12G4,0	19,8	705

*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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Flexible, double screened, halogen-free control cables, number conductors, 300/500V

Cat. no.	nx2xmm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB9897	2x2x0,5	8,0	80
SB9898	3x2x0,5	9,5	105
SB9899	4x2x0,5	10,1	125
SB9900	5x2x0,5	10,9	155
SB9901	6x2x0,5	11,3	165
SB9902	7x2x0,5	12,6	195
SB9903	8x2x0,5	13,1	210
SB9904	10x2x0,5	14,3	255
SB9905	12x2x0,5	15,2	290
SB9906	14x2x0,5	16,3	340
SB9907	16x2x0,5	17,4	385
SB9908	18x2x0,5	18,2	415
SB9909	20x2x0,5	18,8	455
SB9910	24x2x0,5	19,3	515
SB9911	2x2x0,75	8,9	102
SB9912	3x2x0,75	10,3	126
SB9913	4x2x0,75	11,0	152
SB9914	5x2x0,75	12,0	192
SB9915	6x2x0,75	12,3	205
SB9916	7x2x0,75	13,9	245
SB9917	8x2x0,75	14,6	270
SB9918	10x2x0,75	15,5	315
SB9919	12x2x0,75	16,9	375
SB9920	14x2x0,75	17,8	425
SB9921	16x2x0,75	19,2	490
SB9922	18x2x0,75	19,9	530
SB9923	20x2x0,75	20,5	570
SB9924	24x2x0,75	21,2	655
SB9925	2x2x1,0	9,8	126
SB9926	3x2x1,0	10,8	146
SB9927	4x2x1,0	11,9	182
SB9928	5x2x1,0	12,7	225
SB9929	6x2x1,0	13,0	240
SB9930	7x2x1,0	14,7	285

Cat. no.	nx2xmm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB9931	8x2x1,0	15,3	315
SB9932	10x2x1,0	16,8	385
SB9933	12x2x1,0	17,9	445
SB9934	14x2x1,0	19,1	510
SB9935	16x2x1,0	20,3	580
SB9936	18x2x1,0	21,3	625
SB9937	20x2x1,0	22,0	690
SB9938	24x2x1,0	22,6	790
SB9939	2x2x1,5	10,9	162
SB9940	3x2x1,5	12,5	196
SB9941	4x2x1,5	13,4	240
SB9942	5x2x1,5	14,6	300
SB9943	6x2x1,5	15,1	325
SB9944	7x2x1,5	17,2	395
SB9945	8x2x1,5	18,1	435
SB9946	10x2x1,5	19,4	525
SB9947	12x2x1,5	20,7	605
SB9948	14x2x1,5	22,1	695
SB9949	16x2x1,5	23,5	795
SB9950	18x2x1,5	24,9	885
SB9951	20x2x1,5	25,8	960
SB9952	24x2x1,5	26,5	1105
SB9953	2x2x2,5	12,9	230
SB9954	3x2x2,5	14,6	280
SB9955	4x2x2,5	16,3	355
SB9956	5x2x2,5	17,5	440
SB9957	6x2x2,5	18,1	480
SB9958	7x2x2,5	20,4	565
SB9959	8x2x2,5	21,3	625
SB9960	10x2x2,5	23,0	760
SB9961	12x2x2,5	24,6	880
SB9962	14x2x2,5	26,5	1030
SB9963	16x2x2,5	28,3	1175

*Outer diameter tolerance: +/-5%

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