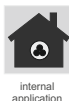
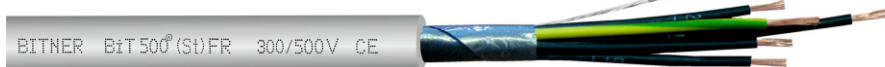


BiT 500[®](St) FR



Flexible, screened and highly flame retardant control cables with number coded conductors, rated 300/500 V



industrial application

internal application

EN 60332-1-2

EN 60332-3-24

oxygen index

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: $U_0/U = 300/500$ V

Test voltage (50 Hz): 3000 V

Insulation resistance: 20 MΩ x km

Mechanical parameters:

Min. bending radius:

fixed installation: 5 x Ø
flexible connections: 10 x Ø

Design:

Conductors:

bare copper conductors, multi-stranded class 5 acc. to EN 60228

Insulation:

PVC compound

Core identification:

black, number coded conductors, cables with protective earth conductor marked G (e.g. 7G1,5)

Core arrangement:

pairs twisted together or cores twisted together

Screen:

aluminum backed polyester tape with tinned copper drain wire underneath

Outer sheath:

PVC compound, oil resistant (see table of chemical resistance), self-extinguishing and flame retardant (acc. to EN 60332-1-2, EN 60332-3-24 cat. C); colour: grey

Application:

Flexible 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. Insulation materials and conductor construction of BiT 500[®](St) FR cable enable easy and fast connections and ensure their high durability. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]	Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB0600	2x0,5	5,2	40	SB0630	2x0,75	5,6	48
SB0601	3G0,5	5,5	45	SB0631	3G0,75	5,9	54
SB0602	3x0,5	5,5	45	SB0632	3x0,75	5,9	54
SB0603	4G0,5	6,0	52	SB0633	4G0,75	6,5	66
SB0604	4x0,5	6,0	52	SB0634	4x0,75	6,5	66
SB0605	5G0,5	6,5	64	SB0635	5G0,75	7,2	81
SB0606	5x0,5	6,5	64	SB0636	5x0,75	7,2	81
SB0607	6G0,5	7,2	76	SB0637	6G0,75	7,8	96
SB0608	7G0,5	7,2	80	SB0638	6x0,75	7,8	96
SB0609	7x0,5	7,2	80	SB0639	7G0,75	7,8	102
SB0610	8G0,5	8,2	95	SB0640	7x0,75	7,8	102
SB0611	8x0,5	8,2	95	SB0641	8G0,75	9,2	126
SB0612	10G0,5	9,8	126	SB0642	8x0,75	9,2	126
SB0613	12G0,5	9,8	134	SB0643	10G0,75	10,6	159
SB0614	12x0,5	9,8	134	SB0644	12G0,75	10,6	168
SB0615	14G0,5	10,2	150	SB0645	12x0,75	10,6	168
SB0616	16G0,5	10,8	168	SB0646	14G0,75	11,3	195
SB0617	18G0,5	11,5	192	SB0647	16G0,75	11,9	220
SB0618	19G0,5	11,5	196	SB0648	18G0,75	12,5	245
SB0619	21G0,5	12,0	215	SB0649	19G0,75	12,5	250
SB0620	25G0,5	13,7	260	SB0650	21G0,75	13,1	275
SB0621	27G0,5	13,7	270	SB0651	25G0,75	14,9	335
SB0622	30G0,5	14,2	295	SB0652	27G0,75	14,9	345
SB0623	34G0,5	15,2	335	SB0653	30G0,75	15,4	375
SB0624	37G0,5	15,2	345	SB0654	34G0,75	17,0	450
SB0625	40G0,5	16,1	390	SB0655	37G0,75	17,0	465
SB0626	42G0,5	17,3	415	SB0656	40G0,75	17,6	500
SB0627	50G0,5	18,2	485	SB0657	42G0,75	19,1	540
SB0628	56G0,5	18,8	525	SB0658	50G0,75	19,9	620
SB0629	61G0,5	19,3	560	SB0659	56G0,75	20,5	675

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Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB0660	61G0,75	21,1	725
SB0661	2x1,0	5,9	54
SB0662	3G1,0	6,3	64
SB0663	3x1,0	6,3	64
SB0664	4G1,0	7,0	80
SB0665	4x1,0	7,0	80
SB0666	5G1,0	7,6	98
SB0667	5x1,0	7,6	98
SB0668	6G1,0	8,2	114
SB0669	6x1,0	8,2	114
SB0670	7G1,0	8,2	120
SB0671	7x1,0	8,2	120
SB0672	8G1,0	9,7	148
SB0673	10G1,0	11,5	194
SB0674	10x1,0	11,5	194
SB0675	12G1,0	11,5	210
SB0676	12x1,0	11,5	210
SB0677	14G1,0	12,0	235
SB0678	16G1,0	12,6	265
SB0679	18G1,0	13,2	295
SB0680	18x1,0	13,2	295
SB0681	19G1,0	13,2	300
SB0682	21G1,0	14,1	335
SB0683	25G1,0	16,3	415
SB0684	27G1,0	16,3	430
SB0685	30G1,0	16,8	470
SB0686	34G1,0	18,2	550
SB0687	37G1,0	18,2	565
SB0688	40G1,0	18,9	610
SB0689	42G1,0	20,3	650
SB0690	50G1,0	21,2	750
SB0691	56G1,0	22,0	830
SB0692	61G1,0	22,6	890
SB0693	2x1,5	6,9	74
SB0694	3G1,5	7,3	86
SB0695	3x1,5	7,3	86
SB0696	4G1,5	8,0	108
SB0697	4x1,5	8,0	108
SB0698	5G1,5	9,1	138
SB0699	5x1,5	9,1	138
SB0700	6G1,5	9,8	162
SB0701	6x1,5	9,8	162
SB0702	7G1,5	9,8	172
SB0703	7x1,5	9,8	172
SB0704	8G1,5	11,0	200
SB0705	10G1,5	13,1	260
SB0706	10x1,5	13,1	260
SB0707	12G1,5	13,1	280

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB0708	12x1,5	13,1	280
SB0709	14G1,5	13,9	325
SB0710	16G1,5	14,7	365
SB0711	18G1,5	15,4	410
SB0712	19G1,5	15,4	420
SB0713	21G1,5	16,6	475
SB0714	25G1,5	18,9	575
SB0715	27G1,5	18,9	595
SB0716	30G1,5	19,6	650
SB0717	34G1,5	21,0	750
SB0718	37G1,5	21,0	780
SB0719	40G1,5	22,0	850
SB0720	42G1,5	23,7	910
SB0721	50G1,5	25,1	1080
SB0722	56G1,5	25,9	1180
SB0723	61G1,5	26,6	1260
SB0724	2x2,5	8,0	96
SB0725	3G2,5	8,5	118
SB0726	3x2,5	8,5	118
SB0727	4G2,5	9,7	160
SB0728	4x2,5	9,7	160
SB0729	5G2,5	10,6	192
SB0730	5x2,5	10,6	192
SB0731	6G2,5	11,9	240
SB0732	6x2,5	11,9	240
SB0733	7G2,5	11,9	255
SB0734	7x2,5	11,9	255
SB0735	10G2,5	16,0	395
SB0736	12G2,5	16,0	430
SB0737	12x2,5	16,0	430
SB0738	14G2,5	16,8	485
SB0739	16G2,5	17,7	550
SB0740	18G2,5	18,8	625
SB0741	21G2,5	19,7	705
SB0742	25G2,5	22,5	855
SB0743	30G2,5	23,3	970
SB0744	34G2,5	25,5	1150
SB0745	37G2,5	25,5	1190
SB0746	42G2,5	28,5	1370
SB0747	50G2,5	29,8	1590
SB0748	2x4,0	9,9	150
SB0749	3G4,0	10,5	190
SB0750	3x4,0	10,5	190
SB0751	4G4,0	11,7	240
SB0752	5G4,0	12,7	300
SB0753	7G4,0	14,0	390
SB0754	10G4,0	18,9	600
SB0755	12G4,0	18,9	660

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paired cables

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB0756	2x2x0,5	7,7	70
SB0757	3x2x0,5	8,6	80
SB0758	4x2x0,5	9,7	106
SB0759	5x2x0,5	10,4	130
SB0760	6x2x0,5	10,8	138
SB0761	7x2x0,5	12,2	166
SB0762	8x2x0,5	12,7	182
SB0763	10x2x0,5	13,8	220
SB0764	12x2x0,5	14,7	255
SB0765	14x2x0,5	15,5	290
SB0766	16x2x0,5	17,0	345
SB0767	18x2x0,5	17,7	370
SB0768	20x2x0,5	18,4	410
SB0769	24x2x0,5	18,9	470
SB0770	2x2x0,75	8,4	86
SB0771	3x2x0,75	9,8	106
SB0772	4x2x0,75	10,5	130
SB0773	5x2x0,75	11,5	168
SB0774	6x2x0,75	11,9	180
SB0775	7x2x0,75	13,3	205
SB0776	8x2x0,75	14,1	235
SB0777	10x2x0,75	15,0	280
SB0778	12x2x0,75	16,4	340
SB0779	14x2x0,75	17,4	380
SB0780	16x2x0,75	18,8	445
SB0781	18x2x0,75	19,5	480
SB0782	20x2x0,75	20,1	520
SB0783	24x2x0,75	20,7	600
SB0784	2x2x1,0	9,3	110
SB0785	3x2x1,0	10,3	126
SB0786	4x2x1,0	11,2	154
SB0787	5x2x1,0	12,2	196
SB0788	6x2x1,0	12,6	214

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB0789	7x2x1,0	14,3	255
SB0790	8x2x1,0	14,9	280
SB0791	10x2x1,0	16,4	350
SB0792	12x2x1,0	17,4	405
SB0793	14x2x1,0	18,7	465
SB0794	16x2x1,0	19,9	530
SB0795	18x2x1,0	20,8	575
SB0796	20x2x1,0	21,6	635
SB0797	24x2x1,0	22,2	735
SB0798	2x2x1,5	10,5	142
SB0799	3x2x1,5	12,0	172
SB0800	4x2x1,5	13,0	210
SB0801	5x2x1,5	14,2	270
SB0802	6x2x1,5	14,7	295
SB0803	7x2x1,5	16,8	355
SB0804	8x2x1,5	17,6	395
SB0805	10x2x1,5	19,0	480
SB0806	12x2x1,5	20,3	555
SB0807	14x2x1,5	21,7	645
SB0808	16x2x1,5	23,2	735
SB0809	18x2x1,5	24,2	800
SB0810	20x2x1,5	25,4	895
SB0811	24x2x1,5	26,1	1035
SB0812	2x2x2,5	12,5	205
SB0813	3x2x2,5	14,2	245
SB0814	4x2x2,5	15,5	305
SB0815	5x2x2,5	17,1	400
SB0816	6x2x2,5	17,7	440
SB0817	7x2x2,5	20,0	515
SB0818	8x2x2,5	20,9	575
SB0819	10x2x2,5	22,7	705
SB0820	12x2x2,5	24,2	820
SB0821	14x2x2,5	26,1	960
SB0822	16x2x2,5	27,9	1100

*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