

BiT 500®

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



Control cables 300/500V



industrial application



internal application



EN 60332-1-2



high flexibility

Technical data:

Thermal parameters:

Operating temperature:

fixed installation: -40 °C to 80 °C

flexible connections: -5 °C to 80 °C

occasional flexing: -15 °C to 80 °C

Electrical parameters:

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

Test voltage (50Hz): 3000V

Mechanical parameters:

Insulation resistance: 20MΩxkm

Min. bending radius:|

flexible connections: 7,5xD

fixed installation: 4xD

*minimum temperature for occasional flexing with
bending radius not smaller than 15xD.
Bending test at low temperature (-15°C acc. to EN
60811-504).

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S54400	2x0,5	5,0	36
S54401	3G0,5	5,3	44
S54402	3x0,5	5,3	44
S54403	4G0,5	5,8	52
S54404	4x0,5	5,8	52
S54405	5G0,5	6,3	62
S54406	5x0,5	6,3	62
S54407	6G0,5	7,0	74
S54408	7G0,5	7,0	78
S54409	7x0,5	7,0	78
S54410	8G0,5	7,7	92
S54411	8x0,5	7,7	92
S54412	10G0,5	9,4	126
S54413	12G0,5	9,4	135
S54414	12x0,5	9,4	135
S54415	14G0,5	9,8	150
S54416	16G0,5	10,4	170
S54417	18G0,5	10,9	185
S54418	19G0,5	10,9	190
S54420	21G0,5	11,6	215
S54505	25G0,5	13,1	255
S54422	27G0,5	13,1	265
S54423	30G0,5	13,8	290
S54506	34G0,5	14,8	335

Design:

Conductors:

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

Insulation:

special PVC

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

Outer sheath:

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

Application:

Flexible control cables designed for operation in control and protective devices as well as in control circuits. Also for power supply to low power portable and mobile devices. They are suitable for fixed installations and for flexible connections in industrial devices, technologicallines and machines operating in dry and damp rooms. High flexibility of BiT 500® cable enables easy and fast connections and ensures their high durability. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S54424	37G0,5	14,8	345
S54507	40G0,5	15,3	370
S54508	42G0,5	16,9	415
S54509	50G0,5	17,6	475
S54510	56G0,5	18,4	525
S54511	61G0,5	18,9	560
S54425	2x0,75	5,4	45
S54426	3G0,75	5,7	54
S54427	3x0,75	5,7	54
S54428	4G0,75	6,3	64
S54429	4x0,75	6,3	64
S54430	5G0,75	7,0	80
S54431	5x0,75	7,0	80
S54432	6G0,75	7,6	94
S54433	6x0,75	7,6	94
S54434	7G0,75	7,6	100
S54435	7x0,75	7,6	100
S54436	8G0,75	8,4	116
S54437	8x0,75	8,4	116
S54438	10G0,75	10,2	158
S54439	12G0,75	10,2	168
S54440	12x0,75	10,2	168
S54441	14G0,75	10,7	190
S54442	16G0,75	11,5	220

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Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S54443	18G0,75	12,1	245
S54444	19G0,75	12,1	250
S54446	21G0,75	12,7	275
S54512	25G0,75	14,5	335
S54513	27G0,75	14,5	345
S54514	30G0,75	15,0	375
S54515	34G0,75	16,6	450
S54516	37G0,75	16,6	465
S54517	40G0,75	17,2	500
S54518	42G0,75	18,7	545
S54519	50G0,75	19,5	625
S54520	56G0,75	20,1	675
S54521	61G0,75	20,7	725
S54448	2x1,0	5,7	52
S54449	3G1,0	6,1	64
S54450	3x1,0	6,1	64
S54451	4G1,0	6,8	80
S54452	4x1,0	6,8	80
S54453	5G1,0	7,4	96
S54454	5x1,0	7,4	96
S54455	6G1,0	8,0	112
S54456	6x1,0	8,0	112
S54457	7G1,0	8,0	118
S54458	7x1,0	8,0	118
S54459	8G1,0	9,3	148
S54460	10G1,0	10,9	188
S54461	10x1,0	10,9	188
S54462	12G1,0	10,9	204
S54463	12x1,0	10,9	204
S54464	14G1,0	11,6	235
S54465	16G1,0	12,2	264
S54466	18G1,0	12,8	294
S54467	18x1,0	12,8	294
S54468	19G1,0	12,8	300
S54471	21G1,0	13,7	336
S54522	25G1,0	15,5	405
S54523	27G1,0	15,5	415
S54524	30G1,0	16,4	470
S54525	34G1,0	17,6	540
S54526	37G1,0	17,6	560
S54527	40G1,0	18,5	610
S54528	42G1,0	19,9	655
S54529	50G1,0	20,8	755
S54530	56G1,0	21,6	830
S54531	61G1,0	22,2	890
S54473	2x1,5	6,7	71
S54474	3G1,5	7,1	87
S54475	3x1,5	7,1	87
S54476	4G1,5	7,8	110
S54477	4x1,5	7,8	110
S54478	5G1,5	8,5	130
S54479	5x1,5	8,5	130
S54480	6G1,5	9,6	162
S54532	6x1,5	9,6	162

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S54481	7G1,5	9,6	172
S54482	7x1,5	9,6	172
S54483	8G1,5	10,6	202
S54484	10G1,5	12,7	265
S54533	10x1,5	12,7	265
S54485	12G1,5	12,7	285
S54486	12x1,5	12,7	285
S54534	14G1,5	13,5	325
S54535	16G1,5	14,3	370
S54536	18G1,5	15,0	410
S54537	19G1,5	15,0	420
S54538	21G1,5	16,2	475
S54539	25G1,5	18,5	580
S54540	27G1,5	18,5	600
S54541	30G1,5	19,2	655
S54542	34G1,5	20,6	755
S54543	37G1,5	20,6	785
S54544	40G1,5	21,6	855
S54545	42G1,5	23,3	920
S54546	50G1,5	24,7	1080
S54547	56G1,5	25,5	1180
S54548	61G1,5	26,2	1270
S54487	2x2,5	7,8	102
S54488	3G2,5	8,3	126
S54489	3x2,5	8,3	126
S54490	4G2,5	9,5	166
S54491	4x2,5	9,5	166
S54492	5G2,5	10,4	200
S54493	5x2,5	10,4	200
S54549	6x2,5	11,5	240
S54494	6G2,5	11,5	240
S54495	7G2,5	11,5	260
S54496	7x2,5	11,5	260
S54498	10G2,5	15,2	390
S54499	12G2,5	15,2	425
S54500	12x2,5	15,2	425
S54550	14G2,5	16,4	495
S54551	16G2,5	17,3	560
S54552	18G2,5	18,4	630
S54553	21G2,5	19,3	710
S54554	25G2,5	22,1	870
S54555	30G2,5	22,9	985
S54556	34G2,5	25,1	1160
S54557	37G2,5	25,1	1210
S54558	42G2,5	28,1	1390
S54559	50G2,5	29,4	1610
S54560	2x4,0	9,3	152
S54561	3G4,0	10,3	202
S54562	3x4,0	10,3	202
S54563	4G4,0	11,3	255
S54564	5G4,0	12,6	310
S54565	7G4,0	13,7	395
S54566	10G4,0	18,7	615
S54567	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]
S54568	2x2x0,5	7,3	63
S54569	3x2x0,5	8,2	72
S54570	4x2x0,5	9,3	97
S54571	5x2x0,5	10,0	122
S54572	6x2x0,5	10,4	130
S54573	7x2x0,5	11,8	156
S54574	8x2x0,5	12,3	172
S54575	10x2x0,5	13,2	205
S54576	12x2x0,5	14,3	245
S54577	14x2x0,5	15,1	275
S54578	16x2x0,5	16,6	335
S54579	18x2x0,5	17,3	360
S54580	20x2x0,5	17,8	390
S54581	24x2x0,5	18,5	455
S54582	2x2x0,75	8,0	80
S54583	3x2x0,75	9,4	98
S54584	4x2x0,75	10,1	122
S54585	5x2x0,75	10,9	152
S54586	6x2x0,75	11,5	170
S54587	7x2x0,75	12,9	196
S54588	8x2x0,75	13,7	225
S54589	10x2x0,75	14,6	270
S54590	12x2x0,75	16,0	325
S54591	14x2x0,75	17,0	370
S54592	16x2x0,75	18,4	435
S54593	18x2x0,75	19,1	470
S54594	20x2x0,75	19,7	510
S54595	24x2x0,75	20,3	590
S54596	2x2x1,0	8,5	92
S54597	3x2x1,0	9,9	116
S54598	4x2x1,0	10,8	142
S54599	5x2x1,0	11,8	184
S54600	6x2x1,0	12,2	202

Cat. no.	nx2xmm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S54601	7x2x1,0	13,9	240
S54602	8x2x1,0	14,5	270
S54603	10x2x1,0	15,6	320
S54604	12x2x1,0	17,0	390
S54605	14x2x1,0	18,3	450
S54606	16x2x1,0	19,5	515
S54607	18x2x1,0	20,4	560
S54608	20x2x1,0	21,0	610
S54609	24x2x1,0	21,8	720
S54610	2x2x1,5	10,1	132
S54611	3x2x1,5	11,6	160
S54612	4x2x1,5	12,6	198
S54613	5x2x1,5	13,8	258
S54614	6x2x1,5	14,3	280
S54615	7x2x1,5	16,4	340
S54616	8x2x1,5	17,2	380
S54617	10x2x1,5	18,6	465
S54618	12x2x1,5	19,9	540
S54619	14x2x1,5	21,1	620
S54620	16x2x1,5	22,8	720
S54621	18x2x1,5	23,8	785
S54622	20x2x1,5	25,0	880
S54623	24x2x1,5	25,7	1020
S54624	2x2x2,5	12,1	192
S54625	3x2x2,5	13,8	235
S54626	4x2x2,5	15,1	295
S54627	5x2x2,5	16,7	385
S54628	6x2x2,5	17,3	425
S54629	7x2x2,5	19,6	500
S54630	8x2x2,5	20,5	560
S54631	10x2x2,5	22,3	690
S54632	12x2x2,5	23,8	805
S54633	14x2x2,5	25,7	945
S54634	16x2x2,5	27,5	1085

*Outer diameter tolerance: +/-5%

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Note: On customer's request other cross sections or number of cores can be produced