

Flexible control cables with coloured conductors, rated 300/500 V



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 (50 Hz): 3000 V

Insulation resistance: 20 M Ω x km

Max. approximate capacitance: 150 pF/m

Approximate inductance: 0,65 mH/km

Mechanical parameters:

Min. bending radius:

flexible connections: 7,5 x \varnothing
fixed installation: 4 x \varnothing

Design:

Conductors:

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

Insulation:

PVC compound

Core identification:

colours as per DIN 47100

Core arrangement:

cores twisted together or pairs twisted together

Outer sheath:

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

Application:

Cables designed for signalling control circuits, control circuits in industrial applications, in measurement technology, for analogue and digital signals transmission in electronic industrial and automatic control engineering systems, for fixed installation and mobile/portable devices. Suitable for usage in internal systems, in both dry and damp rooms. Core arrangement ensures asymmetry attenuation of 10 dB. In the environment with considerable electromagnetic interference we recommend using a screened type - BIT LiYYC. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S53600	2x0,5	5,0	36
S53601	3x0,5	5,3	44
S53602	4x0,5	5,7	52
S53603	5x0,5	6,2	63
S53605	7x0,5	7,0	81
S53606	8x0,5	7,7	94
S53607	10x0,5	9,4	129
S53608	12x0,5	9,4	138
S53609	14x0,5	9,8	154
S53610	16x0,5	10,3	174
S53611	18x0,5	10,9	192
S53720	19x0,5	10,9	196
S53613	21x0,5	11,6	221
S53709	25x0,5	13,1	265
S53615	27x0,5	13,1	273
S53616	30x0,5	13,7	304
S53711	34x0,5	14,8	345
S53618	37x0,5	14,8	360
S53619	40x0,5	15,3	385
S53721	42x0,5	16,9	430
S53712	50x0,5	17,6	490
S53722	56x0,5	18,3	545
S53625	61x0,5	18,9	580
S53626	2x0,75	5,4	45
S53627	3x0,75	5,7	54
S53628	4x0,75	6,2	66
S53629	5x0,75	7,0	83
S53630	6x0,75	7,6	97
S53631	7x0,75	7,6	103
S53632	8x0,75	8,3	119
S53633	10x0,75	10,2	164
S53634	12x0,75	10,2	175

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S53635	14x0,75	10,7	196
S53636	16x0,75	11,5	227
S53637	18x0,75	12,1	252
S53723	19x0,75	12,1	257
S53639	21x0,75	12,6	283
S53713	25x0,75	14,5	345
S53641	27x0,75	14,5	355
S53642	30x0,75	15,0	385
S53715	34x0,75	16,6	460
S53644	37x0,75	16,6	480
S53645	40x0,75	17,1	515
S53724	42x0,75	18,7	560
S53716	50x0,75	19,5	645
S53725	56x0,75	20,1	700
S53726	61x0,75	20,7	750
S53648	2x1,0	5,7	52
S53649	3x1,0	6,1	64
S53650	4x1,0	6,8	81
S53651	5x1,0	7,4	99
S53652	6x1,0	8,0	116
S53653	7x1,0	8,0	123
S53654	8x1,0	9,2	151
S53655	10x1,0	10,8	194
S53656	12x1,0	10,8	208
S53657	14x1,0	11,5	241
S53658	16x1,0	12,2	272
S53659	18x1,0	12,8	302
S53727	19x1,0	12,8	305
S53661	21x1,0	13,6	345
S53717	25x1,0	15,4	415
S53663	27x1,0	15,4	430
S53664	30x1,0	16,4	480

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Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S53719	34x1,0	17,6	555
S53666	37x1,0	17,6	575
S53667	40x1,0	18,4	630
S53728	42x1,0	19,9	675
S53729	50x1,0	20,7	775
S53730	56x1,0	21,6	860
S53731	61x1,0	22,2	920
S53670	2x1,5	6,7	73
S53671	3x1,5	7,1	90
S53672	4x1,5	7,8	112
S53673	5x1,5	8,5	135
S53674	6x1,5	9,6	167
S53675	7x1,5	9,6	178
S53676	8x1,5	10,6	207
S53677	10x1,5	12,7	272
S53678	12x1,5	12,7	293
S53679	14x1,5	13,5	335
S53680	16x1,5	14,3	380
S53681	18x1,5	15,0	420
S53732	19x1,5	15,0	435
S53683	21x1,5	16,2	490
S53733	25x1,5	18,5	600
S53685	27x1,5	18,5	620
S53686	30x1,5	19,1	680
S53734	34x1,5	20,6	780
S53688	37x1,5	20,6	810
S53689	40x1,5	21,6	885
S53735	42x1,5	23,3	950

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S53736	50x1,5	24,7	1120
S53737	56x1,5	25,5	1220
S53738	61x1,5	26,2	1310
S53692	2x2,5	7,8	104
S53693	3x2,5	8,3	130
S53694	4x2,5	9,5	171
S53695	5x2,5	10,3	206
S53696	6x2,5	11,5	249
S53697	7x2,5	11,5	266
S53699	10x2,5	15,2	400
S53700	12x2,5	15,2	435
S53701	14x2,5	16,3	510
S53702	16x2,5	17,2	575
S53703	18x2,5	18,4	650
S53705	21x2,5	19,3	735
S53706	25x2,5	22,1	895
S53739	30x2,5	22,9	1015
S53707	34x2,5	25,1	1195
S53740	37x2,5	25,1	1245
S53741	42x2,5	28,1	1435
S53708	50x2,5	29,3	1660
S53742	2x4,0	9,5	162
S53743	3x4,0	10,1	205
S53744	4x4,0	11,3	263
S53745	5x4,0	12,3	315
S53746	7x4,0	13,6	410
S53747	10x4,0	18,5	635
S53748	12x4,0	18,5	695

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paired cables

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4800	2x2x0,5	7,3	65
SB4801	3x2x0,5	8,2	74
SB4802	4x2x0,5	9,3	100
SB4803	5x2x0,5	10,0	125
SB4804	6x2x0,5	10,3	135
SB4805	7x2x0,5	11,8	161
SB4806	8x2x0,5	12,3	179
SB4807	10x2x0,5	13,2	213
SB4808	12x2x0,5	14,2	253
SB4809	14x2x0,5	15,1	285
SB4810	16x2x0,5	16,6	345
SB4811	18x2x0,5	17,3	370
SB4812	20x2x0,5	17,8	400
SB4813	24x2x0,5	18,5	470
SB4814	2x2x0,75	7,9	80
SB4815	3x2x0,75	9,3	101
SB4816	4x2x0,75	10,1	125
SB4817	5x2x0,75	10,9	157
SB4818	6x2x0,75	11,5	176
SB4819	7x2x0,75	12,8	203
SB4820	8x2x0,75	13,6	232
SB4821	10x2x0,75	14,6	275
SB4822	12x2x0,75	16,0	335
SB4823	14x2x0,75	16,9	380
SB4824	16x2x0,75	18,3	445
SB4825	18x2x0,75	19,1	480
SB4826	20x2x0,75	19,7	525
SB4827	24x2x0,75	20,3	605
SB4828	2x2x1,0	8,4	95
SB4829	3x2x1,0	9,9	119
SB4830	4x2x1,0	10,7	148
SB4831	5x2x1,0	11,8	191
SB4832	6x2x1,0	12,2	209

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4833	7x2x1,0	13,8	248
SB4834	8x2x1,0	14,5	275
SB4835	10x2x1,0	15,5	330
SB4836	12x2x1,0	17,0	400
SB4837	14x2x1,0	18,2	465
SB4838	16x2x1,0	19,5	530
SB4839	18x2x1,0	20,3	575
SB4840	20x2x1,0	21,0	630
SB4841	24x2x1,0	21,8	740
SB4842	2x2x1,5	10,1	135
SB4843	3x2x1,5	11,6	165
SB4844	4x2x1,5	12,6	206
SB4845	5x2x1,5	13,8	265
SB4846	6x2x1,5	14,3	290
SB4847	7x2x1,5	16,4	350
SB4848	8x2x1,5	17,2	390
SB4849	10x2x1,5	18,6	480
SB4850	12x2x1,5	19,9	560
SB4851	14x2x1,5	21,1	640
SB4852	16x2x1,5	22,8	745
SB4853	18x2x1,5	23,8	810
SB4854	20x2x1,5	25,0	910
SB4855	24x2x1,5	25,7	1055
SB4856	2x2x2,5	12,1	198
SB4857	3x2x2,5	13,8	241
SB4858	4x2x2,5	15,0	300
SB4859	5x2x2,5	16,6	395
SB4860	6x2x2,5	17,2	435
SB4861	7x2x2,5	19,6	515
SB4862	8x2x2,5	20,5	575
SB4863	10x2x2,5	22,2	710
SB4864	12x2x2,5	23,7	830
SB4865	14x2x2,5	25,7	975
SB4866	16x2x2,5	27,5	1115

*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