

BIT LiHC11Y



Flexible, screened, halogen-free, PUR sheathed control cables with coloured conductors, 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: $U_0/U = 300/500$ V

Test voltage: 3000 V

Insulation resistance: 20 M Ω x km

Max. approximate capacitance:

Core/core: 150 pF/m

Core/screen: 270 pF/m

Approximate inductance: 0,65 mH/km

Mechanical parameters:

Min. bending radius:

flexible connections: 10 x \varnothing
fixed installation: 5 x \varnothing

Design:

Conductors:

bare copper conductors class 5 acc. to EN 60228

Insulation:

special halogen-free compound

Core identification:

colours as per DIN 47100

Core arrangement:

cores twisted together or pairs twisted together

Screen:

tinned copper wire braid with coverage of $\geq 85\%$

Outer sheath:

special PUR compound, oil resistant (EN 60811-404), resistant to hydrocarbons, industrial coolants and UV radiation flame retardant and halogen free (as per EN 60332-1-2, EN 60754); colour: grey

Application:

Cables are intended 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. A common screen of tinned copper wire braid ensures very good protection against external electromagnetic fields (approximately 50 dB). Suitable for use indoors, in both dry and damp rooms. LiHC11Y cable can also be installed outdoors – special outer sheath compound (PUR) ensures UV resistance and increased mechanical protection. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB5300	2x0,5	5,4	43
SB5301	3x0,5	5,7	48
SB5302	4x0,5	6,1	57
SB5303	5x0,5	6,8	72
SB5304	6x0,5	7,4	84
SB5305	7x0,5	7,4	88
SB5306	8x0,5	8,1	101
SB5307	10x0,5	9,8	136
SB5308	12x0,5	9,8	144
SB5309	14x0,5	10,2	162
SB5310	16x0,5	10,7	182
SB5311	18x0,5	11,5	207
SB5312	19x0,5	11,5	211
SB5313	21x0,5	12,0	231
SB5314	25x0,5	13,9	295
SB5315	27x0,5	13,9	300
SB5316	30x0,5	14,3	325
SB5317	34x0,5	15,4	375
SB5318	37x0,5	15,4	385
SB5319	40x0,5	16,3	430
SB5320	42x0,5	17,5	460
SB5321	50x0,5	18,2	530
SB5322	56x0,5	18,9	575
SB5323	61x0,5	19,5	615

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB5324	2x0,75	5,8	50
SB5325	3x0,75	6,1	57
SB5326	4x0,75	6,8	73
SB5327	5x0,75	7,4	88
SB5328	6x0,75	8,0	104
SB5329	7x0,75	8,0	109
SB5330	8x0,75	9,1	133
SB5331	10x0,75	10,6	170
SB5332	12x0,75	10,6	181
SB5333	14x0,75	11,3	209
SB5334	16x0,75	11,9	235
SB5335	18x0,75	12,5	260
SB5336	19x0,75	12,5	265
SB5337	21x0,75	13,2	305
SB5338	25x0,75	15,1	370
SB5339	27x0,75	15,1	380
SB5340	30x0,75	16,0	425
SB5341	34x0,75	17,2	490
SB5342	37x0,75	17,2	505
SB5343	40x0,75	17,7	545
SB5344	42x0,75	19,3	590
SB5345	50x0,75	20,1	675
SB5346	56x0,75	20,7	735
SB5347	61x0,75	21,5	795

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Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB5348	2x1,0	6,1	56
SB5349	3x1,0	6,4	66
SB5350	4x1,0	7,2	85
SB5351	5x1,0	7,8	103
SB5352	6x1,0	8,4	122
SB5353	7x1,0	8,4	129
SB5354	8x1,0	9,6	156
SB5355	10x1,0	11,4	205
SB5356	12x1,0	11,4	219
SB5357	14x1,0	11,9	247
SB5358	16x1,0	12,8	290
SB5359	18x1,0	13,6	325
SB5360	19x1,0	13,6	335
SB5361	21x1,0	14,2	365
SB5362	25x1,0	16,4	450
SB5363	27x1,0	16,4	465
SB5364	30x1,0	17,0	510
SB5365	34x1,0	18,4	590
SB5366	37x1,0	18,4	610
SB5367	40x1,0	19,0	660
SB5368	42x1,0	20,5	705
SB5369	50x1,0	21,5	820
SB5370	56x1,0	22,2	890
SB5371	61x1,0	22,8	955
SB5372	2x1,5	7,1	76
SB5373	3x1,5	7,5	91
SB5374	4x1,5	8,2	115
SB5375	5x1,5	9,3	145
SB5376	6x1,5	10,0	172
SB5377	7x1,5	10,0	182
SB5378	8x1,5	11,0	212
SB5379	10x1,5	13,3	290
SB5380	12x1,5	13,3	310
SB5381	14x1,5	14,1	355
SB5382	16x1,5	14,9	400
SB5383	18x1,5	16,0	460

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB5384	19x1,5	16,0	470
SB5385	21x1,5	16,8	515
SB5386	25x1,5	19,1	625
SB5387	27x1,5	19,1	645
SB5388	30x1,5	19,7	705
SB5389	34x1,5	21,4	820
SB5390	37x1,5	21,4	850
SB5391	40x1,5	22,2	915
SB5392	42x1,5	23,9	980
SB5393	50x1,5	25,3	1150
SB5394	56x1,5	26,1	1255
SB5395	61x1,5	26,8	1345
SB5396	2x2,5	8,2	104
SB5397	3x2,5	9,1	134
SB5398	4x2,5	9,9	169
SB5399	5x2,5	10,7	206
SB5400	6x2,5	11,9	252
SB5401	7x2,5	11,9	265
SB5402	10x2,5	16,2	430
SB5403	12x2,5	16,2	465
SB5404	14x2,5	16,9	525
SB5405	16x2,5	17,8	595
SB5406	18x2,5	19,0	670
SB5407	21x2,5	19,9	755
SB5408	25x2,5	22,7	920
SB5409	30x2,5	23,5	1040
SB5410	34x2,5	25,7	1220
SB5411	37x2,5	25,7	1270
SB5412	42x2,5	28,7	1465
SB5413	50x2,5	29,9	1695
SB5414	2x4,0	9,9	159
SB5415	3x4,0	10,5	197
SB5416	4x4,0	11,7	255
SB5417	5x4,0	12,9	325
SB5418	7x4,0	14,2	420
SB5419	10x4,0	19,1	645
SB5420	12x4,0	19,1	705

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paired cables

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB5422	2x2x0,5	7,7	77
SB5423	3x2x0,5	9,2	104
SB5424	4x2x0,5	9,9	124
SB5425	5x2x0,5	10,6	151
SB5426	6x2x0,5	10,9	161
SB5427	7x2x0,5	12,4	191
SB5428	8x2x0,5	12,9	211
SB5429	10x2x0,5	14,0	253
SB5430	12x2x0,5	14,8	285
SB5431	14x2x0,5	16,1	335
SB5432	16x2x0,5	17,2	385
SB5433	18x2x0,5	17,9	410
SB5434	20x2x0,5	18,6	455
SB5435	24x2x0,5	19,1	515
SB5436	2x2x0,75	8,5	90
SB5437	3x2x0,75	9,9	125
SB5438	4x2x0,75	10,7	151
SB5439	5x2x0,75	11,7	191
SB5440	6x2x0,75	12,1	206
SB5441	7x2x0,75	13,6	242
SB5442	8x2x0,75	14,2	265
SB5443	10x2x0,75	15,2	310
SB5444	12x2x0,75	16,6	375
SB5445	14x2x0,75	17,5	420
SB5446	16x2x0,75	18,9	480
SB5447	18x2x0,75	19,7	535
SB5448	20x2x0,75	20,3	570
SB5449	24x2x0,75	20,9	655
SB5450	2x2x1,0	9,4	126
SB5451	3x2x1,0	10,5	144
SB5452	4x2x1,0	11,5	181
SB5453	5x2x1,0	12,4	221
SB5454	6x2x1,0	12,8	240
SB5455	7x2x1,0	14,4	280

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB5456	8x2x1,0	15,1	310
SB5457	10x2x1,0	16,5	380
SB5458	12x2x1,0	17,6	440
SB5459	14x2x1,0	18,8	505
SB5460	16x2x1,0	20,1	575
SB5461	18x2x1,0	20,9	625
SB5462	20x2x1,0	21,8	690
SB5463	24x2x1,0	22,4	795
SB5464	2x2x1,5	10,7	161
SB5465	3x2x1,5	12,2	195
SB5466	4x2x1,5	13,2	239
SB5467	5x2x1,5	14,4	300
SB5468	6x2x1,5	14,9	325
SB5469	7x2x1,5	17,0	390
SB5470	8x2x1,5	17,8	430
SB5471	10x2x1,5	19,2	520
SB5472	12x2x1,5	20,5	605
SB5473	14x2x1,5	21,9	700
SB5474	16x2x1,5	23,4	795
SB5475	18x2x1,5	24,8	885
SB5476	20x2x1,5	25,6	965
SB5477	24x2x1,5	26,3	1110
SB5478	2x2x2,5	12,7	229
SB5479	3x2x2,5	14,4	275
SB5480	4x2x2,5	16,0	350
SB5481	5x2x2,5	17,2	435
SB5482	6x2x2,5	17,8	480
SB5483	7x2x2,5	20,2	560
SB5484	8x2x2,5	21,1	625
SB5485	10x2x2,5	22,8	760
SB5486	12x2x2,5	24,3	885
SB5487	14x2x2,5	26,3	1030
SB5488	16x2x2,5	28,1	1180

*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