

BIT LiHCH

Flexible, screened, halogen-free control cables
with coloured conductors, 300/300V



Technical data:

Thermal parameters

Operating temperature:

Fixed installation: -40 °C to 80 °C

Flexible connections: -5 °C to 80 °C

Electrical parameters:

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

Test voltage: 1500V

Mechanical parameters:

Insulation resistance: 20MΩxkm

Approximate capacitance (at 800Hz):

Core/core - 150pF/m

Core/screen - 270pF/m

Approximate inductance: 0,65mH/km

Min. bending radius:

Flexible connections: 10xØ

Fixed installation: 5xØ

Design:

Conductors:

multi-stranded copper conductors, EN 60228 cl.5

Insulation:

special halogen-free compound

Conductor marking:

colours as per DIN 47100

Core arrangement:

cores twisted together or pairs twisted together

Screen:

tinned copper wire braid with coverage of ≥85%

Sheath:

special halogen-free compound, self-extinguishing and highly flame retardant with LOI>29 (as per EN 60332-1-2, EN 60332-3-24 cat. C); colour: grey, on customer's request black

Application:

The 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 installations and mobile/portable devices. Suitable for use indoors, in both dry and damp rooms. A common screen of tinned copper wire braid ensures very good protection against external electromagnetic fields (approximately 50 dB).

Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S32869	2x0,5	5,3	42
S32870	3x0,5	5,6	50
S32871	4x0,5	6,2	58
S32872	5x0,5	6,7	74
S32873	6x0,5	7,2	85
S32874	7x0,5	7,2	88
S32875	8x0,5	8,0	100
S32876	10x0,5	9,1	120
S32877	12x0,5	9,3	134
S32878	14x0,5	9,8	150
S32879	16x0,5	10,5	175
S32880	18x0,5	11,0	193
S32881	20x0,5	11,7	211
S32882	21x0,5	11,7	214
S32883	27x0,5	13,4	271
S32884	30x0,5	13,8	294
S32885	37x0,5	15,1	356
S32886	40x0,5	16,3	390
S32887	44x0,5	17,3	442
S32888	48x0,5	17,5	470
S32889	52x0,5	18,0	503
S32890	56x0,5	18,6	537
S32891	61x0,5	19,1	577
S32892	2x0,75	5,8	50
S32893	3x0,75	6,1	59
S32894	4x0,75	6,7	75

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S32895	5x0,75	7,2	88
S32896	6x0,75	7,9	104
S32897	7x0,75	7,9	109
S32898	8x0,75	8,7	125
S32899	10x0,75	9,9	148
S32900	12x0,75	10,2	173
S32901	14x0,75	10,8	193
S32902	16x0,75	11,5	217
S32903	18x0,75	12,4	251
S32904	20x0,75	13,1	275
S32905	21x0,75	13,1	280
S32906	27x0,75	14,8	348
S32907	30x0,75	15,3	383
S32908	37x0,75	17,8	465
S32909	40x0,75	19,0	522
S32910	2x1,0	6,5	58
S32911	3x1,0	6,9	76
S32912	4x1,0	7,6	92
S32913	5x1,0	8,3	110
S32914	6x1,0	9,0	131
S32915	7x1,0	9,0	137
S32916	8x1,0	9,9	159
S32917	10x1,0	11,4	194
S32918	12x1,0	11,7	220
S32919	14x1,0	12,7	256
S32920	16x1,0	13,5	291

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S32921	18x1,0	14,3	330
S32922	20x1,0	15,2	365
S32923	21x1,0	15,2	370
S32924	27x1,0	17,4	479
S32925	30x1,0	17,9	521
S32926	37x1,0	19,4	625
S32927	2x1,5	7,1	74
S32928	3x1,5	7,5	94
S32929	4x1,5	8,4	116
S32930	5x1,5	9,1	141
S32931	6x1,5	9,9	169
S32932	7x1,5	9,9	177
S32933	8x1,5	11,0	210
S32934	10x1,5	13,0	259
S32935	12x1,5	13,4	295
S32936	14x1,5	14,2	340
S32937	16x1,5	15,1	386
S32938	18x1,5	15,8	431

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S32939	20x1,5	17,2	502
S32940	21x1,5	17,2	510
S32941	27x1,5	19,3	632
S32942	30x1,5	20,0	690
S32943	37x1,5	21,7	834
S32944	2x2,5	8,5	126
S32945	3x2,5	9,0	168
S32946	4x2,5	10,0	195
S32947	5x2,5	10,9	210
S32948	6x2,5	11,9	278
S32949	7x2,5	11,9	296
S32950	8x2,5	13,6	345
S32951	10x2,5	15,8	403
S32952	12x2,5	16,5	540
S32953	14x2,5	17,5	589
S32954	16x2,5	18,7	640
S32955	18x2,5	19,6	681
S32956	20x2,5	21,1	762
S32957	21x2,5	21,1	816

*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

paired cables

Cat. no.	nx2xmm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S33242	2x2x0,5	7,7	82
S33243	3x2x0,5	8,6	92
S33244	4x2x0,5	9,3	111
S33245	5x2x0,5	10,0	137
S33246	6x2x0,5	10,3	149
S33247	7x2x0,5	11,8	174
S33248	8x2x0,5	12,3	191
S33249	10x2x0,5	13,6	237
S33250	12x2x0,5	14,4	272
S33251	14x2x0,5	15,5	314
S33252	16x2x0,5	16,8	370
S33253	18x2x0,5	17,5	399
S33254	20x2x0,5	18,0	431

Cat. no.	nx2xmm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S33255	24x2x0,5	18,7	499
S33256	2x2x0,75	8,3	97
S33257	3x2x0,75	9,3	112
S33258	4x2x0,75	10,1	141
S33259	5x2x0,75	11,1	177
S33261	7x2x0,75	13,2	228
S33263	10x2x0,75	14,8	297
S33264	12x2x0,75	16,0	349
S33265	14x2x0,75	17,1	410
S33266	16x2x0,75	18,5	476
S33267	18x2x0,75	19,3	512
S33269	2x2x1,0	9,5	121
S33270	3x2x1,0	10,8	150

*Outer diameter tolerance: +/-5%

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