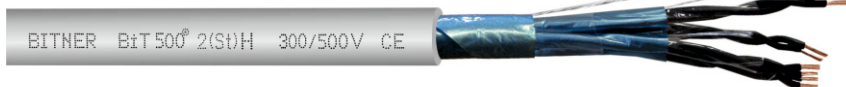


BiT 500[®]2(St)H



Flexible, individually and collectively screened halogen-free paired control cables with number coded conductors, rated 300/500 V



Industrial application



Internal application



EN 60332-1-2



EN 60332-3-24



oxygen index >29



halogen-free EN 60754



low smoke emission EN 61034



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:

special halogen-free compound

Core identification:

black, number coded conductors

Core arrangement:

twisted screened pairs

Individual screen:

aluminum backed polyester tape with tinned copper drain wire underneath each pair

Collective screen:

aluminum backed polyester tape with tinned copper drain wire

Outer sheath:

special halogen-free compound, self-extinguishing and flame retardant (acc. to EN 60332-1-2, EN 60332-3-24, cat. C); colour: grey

Application:

Flexible, halogen-free control cables designed for operation in control and protective devices as well as in control circuits. Double screening improves protection of transmitted signals against external electromagnetic field. Individual screening of pairs decreases signal interferences from adjacent pairs. 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 in BIT 500[®]2(St)H cable enable easy and fast connections and ensure their high durability. Cables are halogen-free, low smoke and limit significantly flame propagation. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]	Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4480	2x2x0,5	7,7	82	SB4508	2x2x1,0	9,3	126
SB4481	3x2x0,5	8,6	96	SB4509	3x2x1,0	10,3	150
SB4482	4x2x0,5	9,7	128	SB4510	4x2x1,0	11,2	186
SB4483	5x2x0,5	10,4	158	SB4511	5x2x1,0	12,2	240
SB4484	6x2x0,5	10,8	172	SB4512	6x2x1,0	12,6	265
SB4485	7x2x0,5	12,2	205	SB4513	7x2x1,0	14,3	310
SB4486	8x2x0,5	12,7	230	SB4514	8x2x1,0	14,9	345
SB4487	10x2x0,5	13,8	280	SB4515	10x2x1,0	16,4	430
SB4488	12x2x0,5	14,7	325	SB4516	12x2x1,0	17,4	500
SB4489	14x2x0,5	15,5	365	SB4517	14x2x1,0	18,7	580
SB4490	16x2x0,5	17,0	435	SB4518	16x2x1,0	19,9	660
SB4491	18x2x0,5	17,7	470	SB4519	18x2x1,0	20,8	720
SB4492	20x2x0,5	18,4	525	SB4520	20x2x1,0	21,6	800
SB4493	24x2x0,5	18,9	605	SB4521	24x2x1,0	22,2	930
SB4494	2x2x0,75	8,4	98	SB4522	2x2x1,5	10,5	158
SB4495	3x2x0,75	9,8	124	SB4523	3x2x1,5	12,0	196
SB4496	4x2x0,75	10,5	154	SB4524	4x2x1,5	13,0	245
SB4497	5x2x0,75	11,5	196	SB4525	5x2x1,5	14,2	310
SB4498	6x2x0,75	11,9	215	SB4526	6x2x1,5	14,7	345
SB4499	7x2x0,75	13,3	250	SB4527	7x2x1,5	16,8	415
SB4500	8x2x0,75	14,1	285	SB4528	8x2x1,5	17,6	460
SB4501	10x2x0,75	15,0	340	SB4529	10x2x1,5	19,0	560
SB4502	12x2x0,75	16,4	410	SB4530	12x2x1,5	20,3	655
SB4503	14x2x0,75	17,4	465	SB4531	14x2x1,5	21,7	760
SB4504	16x2x0,75	18,8	540	SB4532	16x2x1,5	23,2	870
SB4505	18x2x0,75	19,5	590	SB4533	18x2x1,5	24,2	945
SB4506	20x2x0,75	20,1	640	SB4534	20x2x1,5	25,4	1060
SB4507	24x2x0,75	20,7	745	SB4535	24x2x1,5	26,1	1240

BiT 500[®]2(St)H

Flexible, halogen-free, paired control cables, individually and collectively screened, with number coded conductors, rated 300/500 V

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4536	2x2x2,5	12,5	220
SB4537	3x2x2,5	14,2	275
SB4538	4x2x2,5	15,5	340
SB4539	5x2x2,5	17,1	445
SB4540	6x2x2,5	17,7	490

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4541	7x2x2,5	20,0	580
SB4542	8x2x2,5	20,9	645
SB4543	10x2x2,5	22,7	790
SB4544	12x2x2,5	24,2	925
SB4545	14x2x2,5	26,1	1090
SB4546	16x2x2,5	27,9	1240

*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