

BITflex® 500 PUR



Drag chain cables

Highly flexible, PUR sheathed cables for drag chains, rated 300/500 V



industrial application



internal application



external application



EN 60332-1-2



high flexibility



drag chains



oil resistant
EN 60811-404



chemical resistance



UV resistance



hydrocarbon resistant

Technical data:

Thermal parameters:

Operating temperature:

fixed installation: -40 °C to 80 °C
flexible connections: -5 °C to 80 °C

Electrical parameters:

Operating voltage: U₀/U = 300/500 V

Test voltage (50 Hz): 3000 V

Insulation resistance: 20 MΩ x km

Electrical parameters:

Min. bending radius:

flexible connections: 7,5 x Ø
fixed installation: 4 x Ø

Design:

Conductors:

highly flexible, bare copper conductors, multi-stranded class 6 acc. to EN 60228

Insulation:

PVC compound

Core identification:

black, number coded conductors, cables with protective earth conductor marked G (e.g. 7G1,5)

Core arrangement:

cores twisted together in layers with short lay length, special wrapping of separating tape between each layer

Outer sheath:

special PUR compound, resistant to abrasion, oil, chemicals and industrial coolants, self-extinguishing and flame retardant (acc. to 60332-1-2), UV resistant; colour: grey, matt

Application:

Highly flexible power/control cables for installations in drag chains suitable for continuous movements and multiple bending. Designed and tested to withstand at least 5 million bending cycles in a drag chain. Suitable for flexible connections in industrial devices, technological lines and machines operating in dry and damp rooms as well as outdoors – outer sheath is UV resistant. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4600	2x0,5	5,0	35,0
SB4601	3G0,5	5,3	42,0
SB4602	3x0,5	5,3	42,0
SB4603	4G0,5	5,8	51,0
SB4604	4x0,5	5,8	51,0
SB4605	5G0,5	6,2	61,0
SB4606	5x0,5	6,2	61,0
SB4607	6G0,5	7,0	75,0
SB4608	7G0,5	7,0	80,0
SB4609	7x0,5	7,0	80,0
SB4610	8G0,5	7,7	92,0
SB4611	10G0,5	9,4	125,0
SB4612	12G0,5	9,4	135,0
SB4613	12x0,5	9,4	135,0
SB4614	14G0,5	9,8	150,0
SB4615	14x0,5	9,8	150,0
SB4616	16G0,5	10,3	170,0
SB4617	18G0,5	10,9	190,0
SB4618	19G0,5	10,9	195,0
SB4619	21G0,5	11,6	220,0
SB4620	2x0,75	5,3	40,0
SB4621	3G0,75	5,6	50,0
SB4622	3x0,75	5,6	50,0
SB4623	4G0,75	6,2	62,0
SB4624	4x0,75	6,2	62,0
SB4625	5G0,75	6,8	78,0
SB4626	5x0,75	6,8	78,0
SB4627	6G0,75	7,4	92,0

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4628	7G0,75	7,4	97,0
SB4629	7x0,75	7,4	97,0
SB4630	8G0,75	9,1	132,0
SB4631	10G0,75	10,0	155,0
SB4632	12G0,75	10,0	165,0
SB4633	12x0,75	10,0	165,0
SB4634	14G0,75	10,5	185,0
SB4635	14x0,75	10,5	185,0
SB4636	16G0,75	11,0	210,0
SB4637	18G0,75	11,8	240,0
SB4638	19G0,75	11,8	245,0
SB4639	21G0,75	12,4	268,0
SB4640	2x1,0	5,7	49,0
SB4641	3G1,0	6,1	62,0
SB4642	3x1,0	6,1	62,0
SB4643	4G1,0	6,8	78,0
SB4644	4x1,0	6,8	78,0
SB4645	5G1,0	7,4	95,0
SB4646	5x1,0	7,4	95,0
SB4647	6G1,0	8,0	112,0
SB4648	7G1,0	8,0	118,0
SB4649	7x1,0	8,0	118,0
SB4650	8G1,0	9,2	145,0
SB4651	10G1,0	10,8	186,0
SB4652	12G1,0	10,8	200,0
SB4653	12x1,0	10,8	200,0
SB4654	14G1,0	11,5	230,0
SB4655	14x1,0	11,5	230,0

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Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4656	16G1,0	12,2	262,0
SB4657	18G1,0	12,8	292,0
SB4658	19G1,0	12,8	300,0
SB4659	21G1,0	13,6	335,0
SB4660	2x1,5	6,9	72,0
SB4661	3G1,5	7,3	90,0
SB4662	3x1,5	7,3	90,0
SB4663	4G1,5	8,1	113,0
SB4664	4x1,5	8,1	113,0
SB4665	5G1,5	9,1	143,0
SB4666	5x1,5	9,1	143,0
SB4667	6G1,5	9,9	170,0
SB4668	7G1,5	9,9	180,0
SB4669	7x1,5	9,9	180,0
SB4670	8G1,5	10,9	209,0

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB4671	10G1,5	13,1	275,0
SB4672	12G1,5	13,1	295,0
SB4673	12x1,5	13,1	295,0
SB4674	2x2,5	8,0	105,0
SB4675	3G2,5	8,5	135,0
SB4676	3x2,5	8,5	135,0
SB4677	4G2,5	9,8	178,0
SB4678	4x2,5	9,8	178,0
SB4679	5G2,5	10,6	215,0
SB4680	5x2,5	10,6	215,0
SB4681	6G2,5	11,8	260,0
SB4682	7G2,5	11,8	280,0
SB4683	7x2,5	11,8	280,0
SB4684	8G2,5	13,0	325,0
SB4685	10G2,5	16,0	435,0
SB4686	12G2,5	16,0	475,0

*Outer diameter tolerance: +/- 5%

Cable Factory BITNER reserves the right to modify specifications without prior notification

G - cables with green-yellow conductor

x - cables without green-yellow conductor

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