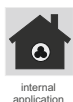


BiT 500[®] 2(St) BLACK FR

Flexible, paired control cables, individually and collectively screened for outdoor applications, highly flame retardant, with number coded conductors, rated 300/500V



Technical data:

Thermal parameters:

Operating temperature:

fixed installation: -40 °C to 80 °C

flexible connections: -5 °C to 80 °C

Electrical parameters:

Operating voltage: $U_0/U=300/500V$

Test voltage (50Hz): 3000V

Mechanical parameters:

Insulation resistance: 20MΩxkm

Min. bending radius:

fixed installation: 6xØ

flexible connections: 12xØ

Design:

Conductors:

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

Insulation:

special PVC

Core identification: black, number coded conductors

Core arrangement: twisted screened pairs

Individual screen: aluminum backed polyester tape with tinned copper drain wire on each pair

Collective screen: aluminum backed polyester tape with tinned copper drain wire

Outer sheath: special PVC, oil resistant (see table of chemical resistance), self-extinguishing and flame retardant (acc. to EN 60332-1-2, EN 60332-3-24, cat. C), UV resistant; colour: black

Application:

Flexible control cables designed for operation in control and protective devices as well as in control circuits. 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. Cables suitable for outdoor installation. Outer sheath is UV resistant. **Designed for direct burial in ground.** Insulation materials and conductor construction in BiT 500[®] 2(St) BLACK FR cable enable easy and fast connections and ensure their high durability. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	nx2xmm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB3000	2x2x0,5	9,3	114
SB3001	3x2x0,5	10,2	132
SB3002	4x2x0,5	10,9	158
SB3003	5x2x0,5	11,6	188
SB3004	6x2x0,5	12,0	204
SB3005	7x2x0,5	13,2	235
SB3006	8x2x0,5	13,7	260
SB3007	10x2x0,5	14,6	305
SB3008	12x2x0,5	15,5	350
SB3009	14x2x0,5	16,3	395
SB3010	16x2x0,5	18,0	475
SB3011	18x2x0,5	18,7	515
SB3012	20x2x0,5	19,4	570
SB3013	24x2x0,5	19,9	650
SB3014	2x2x0,75	10,0	132
SB3015	3x2x0,75	11,0	154
SB3016	4x2x0,75	11,7	184
SB3017	5x2x0,75	12,5	226
SB3018	6x2x0,75	12,9	245
SB3019	7x2x0,75	14,3	280
SB3020	8x2x0,75	14,9	310
SB3021	10x2x0,75	15,8	370
SB3022	12x2x0,75	17,4	450
SB3023	14x2x0,75	18,4	510
SB3024	16x2x0,75	19,8	585
SB3025	18x2x0,75	20,5	635

Cat. no.	nx2xmm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB3026	20x2x0,75	21,1	690
SB3027	24x2x0,75	21,7	795
SB3028	2x2x1,0	10,5	154
SB3029	3x2x1,0	11,5	180
SB3030	4x2x1,0	12,4	220
SB3031	5x2x1,0	13,2	270
SB3032	6x2x1,0	13,6	295
SB3033	7x2x1,0	15,1	335
SB3034	8x2x1,0	15,7	375
SB3035	10x2x1,0	17,4	470
SB3036	12x2x1,0	18,4	540
SB3037	14x2x1,0	19,7	625
SB3038	16x2x1,0	20,9	710
SB3039	18x2x1,0	21,8	770
SB3040	20x2x1,0	22,8	860
SB3041	24x2x1,0	23,4	995
SB3042	2x2x1,5	11,7	190
SB3043	3x2x1,5	13,0	226
SB3044	4x2x1,5	14,0	275
SB3045	5x2x1,5	15,0	340
SB3046	6x2x1,5	15,5	375
SB3047	7x2x1,5	17,8	455
SB3048	8x2x1,5	18,6	505
SB3049	10x2x1,5	20,0	610
SB3050	12x2x1,5	21,3	705
SB3051	14x2x1,5	22,9	820

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Cat. no.	nx2xmm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB3052	16x2x1,5	24,4	935
SB3053	18x2x1,5	25,4	1015
SB3054	20x2x1,5	26,8	1150
SB3055	24x2x1,5	27,5	1330
SB3056	2x2x2,5	13,5	255
SB3057	3x2x2,5	15,0	300
SB3058	4x2x2,5	16,3	370
SB3059	5x2x2,5	18,1	485

Cat. no.	nx2xmm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB3060	6x2x2,5	18,7	535
SB3061	7x2x2,5	21,0	625
SB3062	8x2x2,5	21,9	695
SB3063	10x2x2,5	23,9	855
SB3064	12x2x2,5	25,4	995
SB3065	14x2x2,5	27,5	1170
SB3066	16x2x2,5	29,3	1340

*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