

BITNER[®] BiT 500[®] BLACK OR



Control cables 300/500 V

Flexible, highly flame retardant, oil resistant control cables for outdoor applications with number coded conductors, rated 300/500 V



Technical data:

Thermal parameters:

Operating temperature:

fixed installation: -40 °C to 80 °C
flexible connections: -5 °C to 80 °C
occasional flexing: -15 °C* to 80 °C

Electrical parameters:

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

Test voltage: 3000 V

Insulation resistance: 20 MΩ x km

Mechanical parameters:

Min. bending radius:

flexible connections: $10 \times \varnothing$
fixed installation: $5 \times \varnothing$

**minimum temperature for occasional flexing with bending radius not smaller than $15 \times D$. Bending test at low temperature (-15 °C acc. to EN 60811-504).*

Design:

Conductors:

bare copper conductors, multi-stranded class 5 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 or pairs twisted together PVC compound, oil resistant (EN 60811-2-1), self-extinguishing and flame retardant

Outer sheath:

(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. Also for power supply to low power portable and mobile devices. Designed especially for installation in industrial areas with increased fire safety requirements (limited flame propagation) and in places exposed to oil or industrial coolants. 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. **Cables designed also for direct burial in ground.** Wide spectrum of resistance to environmental conditions allows to install BIT 500[®]BLACK OR cables in vast range of industrial applications. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB2100	2x0,5	6,8	62
SB2101	3G0,5	7,1	70
SB2102	3x0,5	7,1	70
SB2103	4G0,5	7,6	80
SB2104	4x0,5	7,6	80
SB2105	5G0,5	8,1	92
SB2106	5x0,5	8,1	92
SB2107	6G0,5	8,6	105
SB2108	7G0,5	8,6	110
SB2109	7x0,5	8,6	110
SB2110	8G0,5	9,4	125
SB2111	8x0,5	9,4	125
SB2112	10G0,5	10,6	155
SB2113	12G0,5	10,6	165
SB2114	12x0,5	10,6	165
SB2115	14G0,5	11,0	180
SB2116	16G0,5	11,6	200
SB2117	18G0,5	12,1	220
SB2118	19G0,5	12,1	220
SB2119	21G0,5	12,6	240
SB2120	25G0,5	14,1	285
SB2121	27G0,5	14,1	295
SB2122	30G0,5	14,6	320
SB2123	34G0,5	15,6	365
SB2124	37G0,5	15,6	375

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB2125	40G0,5	16,1	400
SB2126	42G0,5	17,9	455
SB2127	50G0,5	18,6	515
SB2128	56G0,5	19,4	570
SB2129	61G0,5	19,9	605
SB2130	2x0,75	7,2	70
SB2131	3G0,75	7,5	82
SB2132	3x0,75	7,5	82
SB2133	4G0,75	8,1	94
SB2134	4x0,75	8,1	94
SB2135	5G0,75	8,6	110
SB2136	5x0,75	8,6	110
SB2137	6G0,75	9,2	126
SB2138	6x0,75	9,2	126
SB2139	7G0,75	9,2	132
SB2140	7x0,75	9,2	132
SB2141	8G0,75	10,0	152
SB2142	8x0,75	10,0	152
SB2143	10G0,75	11,4	188
SB2144	12G0,75	11,4	200
SB2145	12x0,75	11,4	200
SB2146	14G0,75	11,9	225
SB2147	16G0,75	12,5	250
SB2148	18G0,75	13,1	275
SB2149	19G0,75	13,1	280

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Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB2150	21G0,75	13,7	305
SB2151	25G0,75	15,3	365
SB2152	27G0,75	15,3	375
SB2153	30G0,75	15,8	405
SB2154	34G0,75	17,6	490
SB2155	37G0,75	17,6	505
SB2156	40G0,75	18,2	540
SB2157	42G0,75	19,7	590
SB2158	50G0,75	20,5	670
SB2159	56G0,75	21,1	725
SB2160	61G0,75	21,7	775
SB2161	2x1,0	7,5	80
SB2162	3G1,0	7,9	92
SB2163	3x1,0	7,9	92
SB2164	4G1,0	8,4	108
SB2165	4x1,0	8,4	108
SB2166	5G1,0	9,0	126
SB2167	5x1,0	9,0	126
SB2168	6G1,0	9,6	146
SB2169	6x1,0	9,6	146
SB2170	7G1,0	9,6	152
SB2171	7x1,0	9,6	152
SB2172	8G1,0	10,5	155
SB2173	10G1,0	12,1	220
SB2174	10x1,0	12,1	220
SB2175	12G1,0	12,1	235
SB2176	12x1,0	12,1	235
SB2177	14G1,0	12,6	260
SB2178	16G1,0	13,2	295
SB2179	18G1,0	13,8	325
SB2180	18x1,0	13,8	325
SB2181	19G1,0	13,8	330
SB2182	21G1,0	14,5	360
SB2183	25G1,0	16,3	430
SB2184	27G1,0	16,3	445
SB2185	30G1,0	17,4	510
SB2186	34G1,0	18,6	580
SB2187	37G1,0	18,6	600
SB2188	40G1,0	19,5	655
SB2189	42G1,0	20,9	705
SB2190	50G1,0	21,8	805
SB2191	56G1,0	22,8	895
SB2192	61G1,0	23,4	955
SB2193	2x1,5	8,3	100
SB2194	3G1,5	8,7	118
SB2195	3x1,5	8,7	118
SB2196	4G1,5	9,4	142
SB2197	4x1,5	9,4	142
SB2198	5G1,5	10,1	166
SB2199	5x1,5	10,1	166
SB2200	6G1,5	10,8	190
SB2201	6x1,5	10,8	190
SB2202	7G1,5	10,8	200
SB2203	7x1,5	10,8	200
SB2204	8G1,5	11,8	235

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB2205	10G1,5	13,7	295
SB2206	10x1,5	13,7	295
SB2207	12G1,5	13,7	315
SB2208	12x1,5	13,7	315
SB2209	14G1,5	14,3	355
SB2210	16G1,5	15,1	395
SB2211	18G1,5	15,8	440
SB2212	19G1,5	15,8	450
SB2213	21G1,5	17,2	515
SB2214	25G1,5	19,5	625
SB2215	27G1,5	19,5	645
SB2216	30G1,5	20,2	705
SB2217	34G1,5	21,6	805
SB2218	37G1,5	21,6	835
SB2219	40G1,5	22,8	920
SB2220	42G1,5	24,5	985
SB2221	50G1,5	26,1	1170
SB2222	56G1,5	26,9	1270
SB2223	61G1,5	27,6	1360
SB2224	2x2,5	9,4	134
SB2225	3G2,5	9,9	160
SB2226	3x2,5	9,9	160
SB2227	4G2,5	10,7	194
SB2228	4x2,5	10,7	194
SB2229	5G2,5	11,6	230
SB2230	5x2,5	11,6	230
SB2231	6G2,5	12,5	270
SB2232	6x2,5	12,5	270
SB2233	7G2,5	12,5	285
SB2234	7x2,5	12,5	285
SB2235	10G2,5	16,0	420
SB2236	12G2,5	16,0	450
SB2237	12x2,5	16,0	450
SB2238	14G2,5	17,4	535
SB2239	16G2,5	18,3	600
SB2240	18G2,5	19,4	675
SB2241	21G2,5	20,3	760
SB2242	25G2,5	23,3	930
SB2243	30G2,5	24,1	1050
SB2244	34G2,5	26,5	1240
SB2245	37G2,5	26,5	1290
SB2246	42G2,5	29,5	1490
SB2247	50G2,5	30,8	1710
SB2248	2x4,0	11,1	194
SB2249	3G4,0	11,7	240
SB2250	3x4,0	11,7	240
SB2251	4G4,0	12,8	290
SB2252	5G4,0	13,9	350
SB2253	7G4,0	15,0	435
SB2254	10G4,0	20,3	680
SB2255	12G4,0	20,3	740
SB2256	2x6,0	11,7	240
SB2257	3G6,0	12,4	300
SB2258	3x6,0	12,4	300
SB2259	4G6,0	13,6	380

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Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB2260	5G6,0	14,7	455
SB2261	7G6,0	15,9	575
SB2262	2x10	13,9	365
SB2263	3G10	14,7	460
SB2264	3x10	14,7	460
SB2265	4G10	16,9	605
SB2266	5G10	18,3	730
SB2267	7G10	20,0	940
SB2268	2x16	15,7	505
SB2269	3G16	17,3	675
SB2270	3x16	17,3	675
SB2271	4G16	19,3	865
SB2272	5G16	20,9	1050
SB2273	2x25	20,1	750
SB2274	3G25	21,3	1040
SB2275	3x25	21,3	1040

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB2276	4G25	24,1	1340
SB2277	5G25	26,7	1650
SB2278	2x35	22,5	980
SB2279	3G35	23,9	1350
SB2280	3x35	23,9	1350
SB2281	4G35	27,2	1750
SB2282	5G35	29,4	2110
SB2283	2x50	27,1	1490
SB2284	3G50	28,8	1940
SB2285	3x50	28,8	1940
SB2286	4G50	32,3	2480
SB2287	5G50	35,0	3100
SB2288	2x70	30,7	2030
SB2289	3G70	32,9	2080
SB2290	3x70	32,9	2080
SB2291	4G70	37,1	3470
SB2292	5G70	40,5	4240

paired cables

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB2293	2x2x0,5	8,9	94
SB2294	3x2x0,5	9,8	106
SB2295	4x2x0,5	10,5	126
SB2296	5x2x0,5	11,2	152
SB2297	6x2x0,5	11,6	160
SB2298	7x2x0,5	12,8	184
SB2299	8x2x0,5	13,3	205
SB2300	10x2x0,5	14,2	240
SB2301	12x2x0,5	15,1	270
SB2302	14x2x0,5	15,9	305
SB2303	16x2x0,5	17,6	375
SB2304	18x2x0,5	18,3	400
SB2305	20x2x0,5	18,8	430
SB2306	24x2x0,5	19,5	500
SB2307	2x2x0,75	9,6	110
SB2308	3x2x0,75	10,6	130
SB2309	4x2x0,75	11,3	155
SB2310	5x2x0,75	12,1	185
SB2311	6x2x0,75	12,5	200
SB2312	7x2x0,75	13,9	230
SB2313	8x2x0,75	14,5	250
SB2314	10x2x0,75	15,4	295
SB2315	12x2x0,75	17,0	365
SB2316	14x2x0,75	18,0	410
SB2317	16x2x0,75	19,4	475
SB2318	18x2x0,75	20,1	515
SB2319	20x2x0,75	20,7	555
SB2320	24x2x0,75	21,3	635
SB2321	2x2x1,0	10,1	128
SB2322	3x2x1,0	11,1	144
SB2323	4x2x1,0	12,0	174
SB2324	5x2x1,0	12,8	215
SB2325	6x2x1,0	13,2	235

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB2326	7x2x1,0	14,7	270
SB2327	8x2x1,0	15,3	295
SB2328	10x2x1,0	16,4	350
SB2329	12x2x1,0	18,0	430
SB2330	14x2x1,0	19,3	495
SB2331	16x2x1,0	20,5	565
SB2332	18x2x1,0	21,4	610
SB2333	20x2x1,0	22,0	660
SB2334	24x2x1,0	23,0	780
SB2335	2x2x1,5	11,3	162
SB2336	3x2x1,5	12,6	188
SB2337	4x2x1,5	13,6	230
SB2338	5x2x1,5	14,6	285
SB2339	6x2x1,5	15,1	310
SB2340	7x2x1,5	17,4	380
SB2341	8x2x1,5	18,2	420
SB2342	10x2x1,5	19,6	510
SB2343	12x2x1,5	20,9	590
SB2344	14x2x1,5	22,1	670
SB2345	16x2x1,5	24,0	785
SB2346	18x2x1,5	25,0	850
SB2347	20x2x1,5	26,4	965
SB2348	24x2x1,5	27,1	1110
SB2349	2x2x2,5	13,1	225
SB2350	3x2x2,5	14,6	260
SB2351	4x2x2,5	15,9	325
SB2352	5x2x2,5	17,7	430
SB2353	6x2x2,5	18,3	470
SB2354	7x2x2,5	20,6	550
SB2355	8x2x2,5	21,5	610
SB2356	10x2x2,5	23,5	750
SB2357	12x2x2,5	25,0	875
SB2358	14x2x2,5	27,1	1030
SB2359	16x2x2,5	28,9	1180

*Outer diameter tolerance: +/- 5%
 Cable Factory BITNER reserves the right to modify the specifications without prior notice
 G - cables with green/yellow earthing conductor
 x - cables without green/yellow earthing conductor
 Note: on customer's request other cross sections or number of cores can be produced