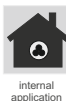


# BIT 500<sup>®</sup> BLACK FR

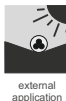
Flexible, highly flame retardant control cables for outdoor applications with number coded conductors, rated 300/500V



Industrial application



Internal application



External application



Underground application



EN 60332-1-2



EN 60332-3



oxygen index



UV resistant



high flexibility

RoHS 2015/863/EU



LVD 2014/35/EU



CPR 305/2011



24 months warranty

## 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:  $U_0/U=300/500V$   
Test voltage (50Hz): 3000V

### Mechanical parameters:

Insulation resistance: 20M $\Omega$ xkm  
Min. bending radius:  
flexible connections: 10x $\varnothing$   
fixed installation: 5x $\varnothing$

\*minimum temperature for occasional flexing with bending radius not smaller than 15xD. 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:** special PVC  
**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  
**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. 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). 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.** Insulation and sheath materials and conductor construction in BIT 500<sup>®</sup> BLACK FR cable enable easy and fast connections and ensure their high durability  
Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB1800	2x0,5	6,8	62
SB1801	3G0,5	7,1	70
SB1802	3x0,5	7,1	70
SB1803	4G0,5	7,6	80
SB1804	4x0,5	7,6	80
SB1805	5G0,5	8,1	92
SB1806	5x0,5	8,1	92
SB1807	6G0,5	8,6	105
SB1808	7G0,5	8,6	110
SB1809	7x0,5	8,6	110
SB1810	8G0,5	9,3	125
SB1811	8x0,5	9,3	125
SB1812	10G0,5	10,6	155
SB1813	12G0,5	10,6	165
SB1814	12x0,5	10,6	165
SB1815	14G0,5	11,0	180
SB1816	16G0,5	11,6	200
SB1817	18G0,5	12,1	220
SB1818	19G0,5	12,1	220
SB1819	21G0,5	12,6	240
SB1820	25G0,5	14,1	285
SB1821	27G0,5	14,1	295
SB1822	30G0,5	14,6	320
SB1823	34G0,5	15,6	365
SB1824	37G0,5	15,6	375

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB1825	40G0,5	16,1	400
SB1826	42G0,5	17,9	455
SB1827	50G0,5	18,6	515
SB1828	56G0,5	19,4	570
SB1829	61G0,5	19,9	605
SB1830	2x0,75	7,2	70
SB1831	3G0,75	7,5	82
SB1832	3x0,75	7,5	82
SB1833	4G0,75	8,1	94
SB1834	4x0,75	8,1	94
SB1835	5G0,75	8,6	110
SB1836	5x0,75	8,6	110
SB1837	6G0,75	9,2	126
SB1838	6x0,75	9,2	126
SB1839	7G0,75	9,2	132
SB1840	7x0,75	9,2	132
SB1841	8G0,75	10,0	152
SB1842	8x0,75	10,0	152
SB1843	10G0,75	11,4	188
SB1844	12G0,75	11,4	200
SB1845	12x0,75	11,4	200
SB1846	14G0,75	11,9	225
SB1847	16G0,75	12,5	250
SB1848	18G0,75	13,1	275
SB1849	19G0,75	13,1	280

# BIT 500<sup>®</sup> BLACK FR

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

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB1850	21G0,75	13,7	305
SB1851	25G0,75	15,3	365
SB1852	27G0,75	15,3	375
SB1853	30G0,75	15,8	405
SB1854	34G0,75	17,6	490
SB1855	37G0,75	17,6	505
SB1856	40G0,75	18,2	540
SB1857	42G0,75	19,7	590
SB1858	50G0,75	20,5	670
SB1859	56G0,75	21,1	725
SB1860	61G0,75	21,7	775
SB1861	2x1,0	7,5	80
SB1862	3G1,0	7,9	92
SB1863	3x1,0	7,9	92
SB1864	4G1,0	8,4	108
SB1865	4x1,0	8,4	108
SB1866	5G1,0	9,0	126
SB1867	5x1,0	9,0	126
SB1868	6G1,0	9,6	146
SB1869	6x1,0	9,6	146
SB1870	7G1,0	9,6	152
SB1871	7x1,0	9,6	152
SB1872	8G1,0	10,5	155
SB1873	10G1,0	12,1	220
SB1874	10x1,0	12,1	220
SB1875	12G1,0	12,1	235
SB1876	12x1,0	12,1	235
SB1877	14G1,0	12,6	260
SB1878	16G1,0	13,2	295
SB1879	18G1,0	13,8	325
SB1880	18x1,0	13,8	325
SB1881	19G1,0	13,8	330
SB1882	21G1,0	14,5	360
SB1883	25G1,0	16,3	430
SB1884	27G1,0	16,3	445
SB1885	30G1,0	17,4	510
SB1886	34G1,0	18,6	580
SB1887	37G1,0	18,6	600
SB1888	40G1,0	19,5	655
SB1889	42G1,0	20,9	705
SB1890	50G1,0	21,8	805
SB1891	56G1,0	22,8	895
SB1892	61G1,0	23,4	955
SB1893	2x1,5	8,3	100
SB1894	3G1,5	8,7	118
SB1895	3x1,5	8,7	118
SB1896	4G1,5	9,4	142
SB1897	4x1,5	9,4	142
SB1898	5G1,5	10,1	166
SB1899	5x1,5	10,1	166
SB1900	6G1,5	10,8	190
SB1901	6x1,5	10,8	190
SB1902	7G1,5	10,8	200
SB1903	7x1,5	10,8	200
SB1904	8G1,5	11,8	235
SB1905	10G1,5	13,7	295
SB1906	10x1,5	13,7	295
SB1907	12G1,5	13,7	315
SB1908	12x1,5	13,7	315
SB1909	14G1,5	14,3	355
SB1910	16G1,5	15,1	395
SB1911	18G1,5	15,8	440

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB1912	19G1,5	15,8	450
SB1913	21G1,5	17,2	515
SB1914	25G1,5	19,5	625
SB1915	27G1,5	19,5	645
SB1916	30G1,5	20,2	705
SB1917	34G1,5	21,6	805
SB1918	37G1,5	21,6	835
SB1919	40G1,5	22,8	920
SB1920	42G1,5	24,5	985
SB1921	50G1,5	26,1	1170
SB1922	56G1,5	26,9	1270
SB1923	61G1,5	27,6	1360
SB1924	2x2,5	9,4	134
SB1925	3G2,5	9,9	160
SB1926	3x2,5	9,9	160
SB1927	4G2,5	10,7	194
SB1928	4x2,5	10,7	194
SB1929	5G2,5	11,6	230
SB1930	5x2,5	11,6	230
SB1931	6G2,5	12,5	270
SB1932	6x2,5	12,5	270
SB1933	7G2,5	12,5	285
SB1934	7x2,5	12,5	285
SB1935	10G2,5	16,0	420
SB1936	12G2,5	16,0	450
SB1937	12x2,5	16,0	450
SB1938	14G2,5	17,4	535
SB1939	16G2,5	18,3	600
SB1940	18G2,5	19,4	675
SB1941	21G2,5	20,3	760
SB1942	25G2,5	23,3	930
SB1943	30G2,5	24,1	1050
SB1944	34G2,5	26,5	1240
SB1945	37G2,5	26,5	1290
SB1946	42G2,5	29,5	1490
SB1947	50G2,5	30,8	1710
SB1948	2x4,0	11,1	194
SB1949	3G4,0	11,7	240
SB1950	3x4,0	11,7	240
SB1951	4G4,0	12,8	290
SB1952	5G4,0	13,9	350
SB1953	7G4,0	15,0	435
SB1954	10G4,0	20,3	680
SB1955	12G4,0	20,3	740
SB1956	2x6,0	11,7	240
SB1957	3G6,0	12,4	300
SB1958	3x6,0	12,4	300
SB1959	4G6,0	13,6	380
SB1960	5G6,0	14,7	455
SB1961	7G6,0	15,9	575
SB1962	2x10	13,9	365
SB1963	3G10	14,7	460
SB1964	3x10	14,7	460
SB1965	4G10	16,9	605
SB1966	5G10	18,3	730
SB1967	7G10	20,0	940
SB1968	2x16	15,7	505
SB1969	3G16	17,3	675
SB1970	3x16	17,3	675
SB1971	4G16	19,3	865
SB1972	5G16	20,9	1050

# BiT 500<sup>®</sup> BLACK FR

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

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB1973	2x25	20,1	750
SB1974	3G25	21,3	1040
SB1975	3x25	21,3	1040
SB1976	4G25	24,1	1340
SB1977	5G25	26,7	1650
SB1978	2x35	22,5	980
SB1979	3G35	23,9	1350
SB1980	3x35	23,9	1350
SB1981	4G35	27,2	1750
SB1982	5G35	29,4	2110

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB1983	2x50	27,1	1490
SB1984	3G50	28,8	1940
SB1985	3x50	28,8	1940
SB1986	4G50	32,3	2480
SB1987	5G50	35,0	3100
SB1988	2x70	30,7	2030
SB1989	3G70	32,9	2080
SB1990	3x70	32,9	2080
SB1991	4G70	37,1	3470
SB1992	5G70	40,5	4240

\*Outer diameter tolerance: +/-5%

Cable Factory BITNER reserve 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

## paired cables

Cat. no.	nx2xmm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB1993	2x2x0,5	8,9	94
SB1994	3x2x0,5	9,8	106
SB1995	4x2x0,5	10,5	126
SB1996	5x2x0,5	11,2	152
SB1997	6x2x0,5	11,6	160
SB1998	7x2x0,5	12,8	184
SB1999	8x2x0,5	13,3	205
SB2000	10x2x0,5	14,2	240
SB2001	12x2x0,5	15,1	270
SB2002	14x2x0,5	15,9	305
SB2003	16x2x0,5	17,6	375
SB2004	18x2x0,5	18,3	400
SB2005	20x2x0,5	18,8	430
SB2006	24x2x0,5	19,5	500
SB2007	2x2x0,75	9,6	110
SB2008	3x2x0,75	10,6	130
SB2009	4x2x0,75	11,3	155
SB2010	5x2x0,75	12,1	185
SB2011	6x2x0,75	12,5	200
SB2012	7x2x0,75	13,9	230
SB2013	8x2x0,75	14,5	250
SB2014	10x2x0,75	15,4	295
SB2015	12x2x0,75	17,0	365
SB2016	14x2x0,75	18,0	410
SB2017	16x2x0,75	19,4	475
SB2018	18x2x0,75	20,1	515
SB2019	20x2x0,75	20,7	555
SB2020	24x2x0,75	21,3	635
SB2021	2x2x1,0	10,1	128
SB2022	3x2x1,0	11,1	144
SB2023	4x2x1,0	12,0	174
SB2024	5x2x1,0	12,8	215
SB2025	6x2x1,0	13,2	235

Cat. no.	nx2xmm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
SB2026	7x2x1,0	14,7	270
SB2027	8x2x1,0	15,3	295
SB2028	10x2x1,0	16,4	350
SB2029	12x2x1,0	18,0	430
SB2030	14x2x1,0	19,3	495
SB2031	16x2x1,0	20,5	565
SB2032	18x2x1,0	21,4	610
SB2033	20x2x1,0	22,0	660
SB2034	24x2x1,0	23,0	780
SB2035	2x2x1,5	11,3	162
SB2036	3x2x1,5	12,6	188
SB2037	4x2x1,5	13,6	230
SB2038	5x2x1,5	14,6	285
SB2039	6x2x1,5	15,1	310
SB2040	7x2x1,5	17,4	380
SB2041	8x2x1,5	18,2	420
SB2042	10x2x1,5	19,6	510
SB2043	12x2x1,5	20,9	590
SB2044	14x2x1,5	22,1	670
SB2045	16x2x1,5	24,0	785
SB2046	18x2x1,5	25,0	850
SB2047	20x2x1,5	26,4	965
SB2048	24x2x1,5	27,1	1110
SB2049	2x2x2,5	13,1	225
SB2050	3x2x2,5	14,6	260
SB2051	4x2x2,5	15,9	325
SB2052	5x2x2,5	17,7	430
SB2053	6x2x2,5	18,3	470
SB2054	7x2x2,5	20,6	550
SB2055	8x2x2,5	21,5	610
SB2056	10x2x2,5	23,5	750
SB2057	12x2x2,5	25,0	875
SB2058	14x2x2,5	27,1	1030
SB2059	16x2x2,5	28,9	1180

\*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

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Ribbon Cables / IDC Cables](#) category:*

*Click to view products by [BITNER](#) manufacturer:*

Other Similar products are found below :

[AWG28-10G](#) [EHJ3C](#) [cab-LVDV-PWR-10-15](#) [Ribbon Cable, 4 Pin, 700mm](#) [cab-LVDV-DAT-34-15](#) [49635-C62-S2](#) [1-3636-600-5204](#) [2-1589735-3](#) [JSM015PP2DCC23N](#) [ACL-eSSI-2](#) [92301-0718](#) [MMSDT-06-20-S-05.5-D-K-LDX](#) [IDD-04-G](#) [IDD-25-G](#) [NM-2J2-051-PS1-JJAB](#) [3801/09 \(100FT\)](#) [0044716](#) [0044658](#) [0032805](#) [96053-0000-00-0](#) [NM-2J2-065-SS1-JJ00-272](#) [HDR-169468-04](#) [IDMD-13-D-07.87](#) [TCMD-07-01](#) [HDLSP-035-0950](#) [FFSD-07-D-07.00-01-F-N](#) [0012842](#) [0012801](#) [0012814](#) [21201](#) [21228](#) [21254](#) [21281](#) [21301](#) [21203](#) [21230](#) [21256](#) [21283](#) [21303](#) [21205](#) [21258](#) [21285](#) [0012841](#) [22251](#) [22255](#) [22259](#) [22263](#) [22252](#) [22260](#) [22264](#)