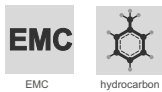


IB-BiT 1000[°]CY



Flexible, screened control cables with number coded conductors for intrinsically safe circuits, rated 0,6/1 kV



Technical data:

Thermal parameters:

Operating temperature:

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

Electrical parameters:

Operating voltage: $U_0/U = 0,6/1kV$

Mechanical parameters:

Insulation resistance: 20 MΩ x km

Inductance ca.: 0,7 mH/km

Min. bending radius:

flexible connections: 12 x Ø
fixed installation: 6 x Ø

Design:

Conductors:

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

Insulation:

special PVC

Core identification:

black, number coded conductors

Core arrangement:

cores twisted together or pairs twisted together

Inner sheath:

special PVC

Screen:

tinned copper wire braid, coverage ≥80%

Outer sheath:

special PVC, oil resistant (EN 60811-404), self-extinguishing and flame retardant (acc. to EN 60332-1-2, EN 60332-3-24, cat. C), UV resistant; colour: blue

Application:

Flexible power/control cables designed for operation intrinsically safe circuits. They are suitable for installations outdoor and indoor in dry and damp rooms. Common screen of tinned copper wire braid ensures very good protection against external electromagnetic field. Reciprocal connection of screen to earth ensures full electromagnetic compatibility (EMC). Design and high flexibility of IB-BiT 1000[°]C cable simplifies installation and compounds used enable easy and fast connections and ensure their high durability. Cables designed also for direct burial in ground. Classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
IB0700	2x0,5	9,6	136
IB2001	3x0,5	10,0	148
IB2002	4x0,5	10,6	168
IB2003	5x0,5	11,3	190
IB2004	6x0,5	12,0	216
IB2005	7x0,5	12,0	220
IB2006	8x0,5	13,1	255
IB2007	10x0,5	14,9	315
IB2008	12x0,5	14,9	320
IB2009	14x0,5	15,5	345
IB2010	16x0,5	16,4	390
IB2011	18x0,5	17,1	425
IB2012	19x0,5	17,1	425
IB2013	20x0,5	17,8	460
IB2014	21x0,5	17,8	460
IB2016	25x0,5	20,0	555
IB2018	30x0,5	20,6	600
IB2021	37x0,5	22,2	700
IB0716	2x0,75	10,0	150
IB2022	3x0,75	10,4	166
IB2023	4x0,75	11,1	190
IB2024	5x0,75	11,8	220
IB2025	6x0,75	12,6	245
IB2026	7x0,75	12,6	250
IB2027	8x0,75	13,8	290
IB2028	10x0,75	15,7	355

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
IB2029	12x0,75	15,7	370
IB2030	14x0,75	16,6	410
IB2031	16x0,75	17,3	450
IB2032	18x0,75	18,1	490
IB2033	19x0,75	18,1	495
IB2034	20x0,75	19,1	545
IB2035	21x0,75	19,1	550
IB2037	25x0,75	21,2	645
IB0736	2x1,0	10,3	162
IB0838	3x1,0	10,8	182
IB0836	4x1,0	11,5	210
IB2051	5x1,0	12,2	240
IB0837	6x1,0	13,2	275
IB2052	7x1,0	13,2	280
IB2053	8x1,0	14,3	320
IB2054	10x1,0	16,6	405
IB2055	12x1,0	16,6	420
IB2056	14x1,0	17,2	460
IB2057	16x1,0	18,0	505
IB2058	18x1,0	18,8	555
IB2059	19x1,0	18,8	560
IB2060	20x1,0	19,9	610
IB2061	21x1,0	19,9	615
IB2063	25x1,0	22,4	750
IB0756	2x1,5	11,1	192
IB0841	3x1,5	11,6	215

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Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
IB0840	4x1,5	12,7	260
IB2074	5x1,5	13,5	295
IB2075	6x1,5	14,4	335
IB2076	7x1,5	14,4	345
IB2077	8x1,5	15,7	395
IB2078	10x1,5	18,2	500
IB0842	12x1,5	18,2	520
IB0776	2x2,5	12,1	234
IB2097	3x2,5	12,6	270

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
IB2098	4x2,5	13,6	317
IB2099	5x2,5	14,8	375
IB2101	7x2,5	15,9	454
IB2103	10x2,5	19,8	622
IB2105	14x2,5	21,6	813
IB2106	16x2,5	22,9	914
IB2107	18x2,5	23,8	1008
IB2112	25x2,5	28,3	1267

Cable Factory BITNER reserve the right to modify the specifications without prior notice
 Note: On customer's request other cross sections or number of cores can be produced

Electrical parameters IB-BiT 1000[®]CY

Core cross-section [mm ²]	Max. resistance at 20 °C [Ω/km]	Core-core capacitance at 1kHz [nF/km]
0,5	36,0	160
0,75	24,5	170
1	18,1	180
1,5	12,1	180
2,5	7,41	200