

IB-BiT 1100® Power C TIMF



Screened power cables for intrinsically safe circuits 0,6/1 kV



Technical data:

Thermal parameters:

Operating temperature:

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

Max. conductor operating temp.: 90 °C

Max. conductor temperature in short-circuit: 250 °C

Electrical parameters:

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

Test voltage (50 Hz): 4000 V

Mechanical parameters:

Min. bending radius:

flexible connections: $10 \times \varnothing$
fixed installation: $6 \times \varnothing$

Design:

Conductors:

bare copper conductors, class 2 acc. to EN 60228

Insulation:

XLPE

Core identification:

core A - black; core B - red; core C - white, number coded

Core arrangement:

cores twisted in triples, electrostatic screen on each triple - aluminium backed polyester tape, with 0,5 mm² copper drain wire; screened triples twisted together, screened with polyester tape

Screen:

tinned copper wire braid, coverage $\geq 85\%$

Outer sheath:

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

Application:

Screened power supply cables designed for operation in intrinsically safe circuits. The cable construction and materials used for its production ensure high flexibility properties and easy installation. Particularly suitable for installation in industrial facilities, in areas exposed to oil or industrial coolants. Cable appropriate for fixed installation in industrial equipment, process lines and machines operating in dry and damp areas. UV and weather resistance enables external application and direct burial. Cables manufactured in compliance with the IEC 60502-1 standard. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
IB2390	2x3x0,75	15,1	272
IB2391	4x3x0,75	17,5	375
IB2392	6x3x0,75	20,7	539
IB2393	8x3x0,75	22,6	634
IB2394	12x3x0,75	26,9	833
IB2395	16x3x0,75	30,1	1064
IB2396	20x3x0,75	33,5	1310
IB2397	24x3x0,75	37,7	1543
IB2398	2x3x1,0	15,9	303
IB2399	4x3x1,0	18,5	424
IB2400	6x3x1,0	21,9	609
IB2401	8x3x1,0	23,9	723

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
IB2402	12x3x1,0	28,7	989
IB2403	16x3x1,0	32,1	1262
IB2404	20x3x1,0	35,8	1560
IB2405	24x3x1,0	40,1	1816
IB2406	2x3x1,5	17,2	352
IB2407	4x3x1,5	20,3	526
IB2408	6x3x1,5	23,9	734
IB2409	8x3x1,5	26,1	875
IB2410	12x3x1,5	31,7	1225
IB2411	16x3x1,5	35,4	1568
IB2412	20x3x1,5	39,5	1942
IB2413	24x3x1,5	44,6	2308

*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