

IB-BiT 1100® Power C PIMF



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 - white, number coded

Core arrangement:

cores twisted in pairs, electrostatic screen on each pair - aluminium backed polyester tape, with 0,5 mm² copper drain wire; screened pairs 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]
IB2430	2x2x0,75	12,3	204
IB2431	4x2x0,75	15,1	286
IB2432	6x2x0,75	16,1	357
IB2433	8x2x0,75	18,6	446
IB2434	12x2x0,75	21,8	622
IB2435	16x2x0,75	24,5	785
IB2437	20x2x0,75	26,5	917
IB2438	24x2x0,75	18,7	1074
IB2439	2x2x1,0	12,9	226
IB2440	4x2x1,0	15,9	324
IB2441	6x2x1,0	17,0	408
IB2442	8x2x1,0	19,7	515
IB2443	12x2x1,0	23,1	720

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
IB2444	16x2x1,0	26,1	912
IB2445	20x2x1,0	28,5	1088
IB2446	24x2x1,0	30,6	1260
IB2447	2x2x1,5	13,9	267
IB2448	4x2x1,5	17,2	383
IB2449	6x2x1,5	18,4	490
IB2450	8x2x1,5	21,6	640
IB2451	12x2x1,5	25,2	874
IB2452	16x2x1,5	28,7	1130
IB2453	20x2x1,5	31,1	1330
IB2454	24x2x1,5	33,7	1562
IB2457	6x2x2,5	20,5	658
IB2459	12x2x2,5	28,2	1175

*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