

IB-BiT 1100® Power (St) 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:

aluminium backed polyester tape, with 0,5 mm² copper drain wire

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]
IB2358	2x2x0,75	12,1	175
IB2359	4x2x0,75	14,9	246
IB2360	6x2x0,75	15,9	312
IB2361	8x2x0,75	18,4	394
IB2362	12x2x0,75	21,4	534
IB2363	16x2x0,75	24,1	684
IB2364	20x2x0,75	26,1	805
IB2365	24x2x0,75	28,3	952
IB2366	2x2x1,0	12,7	194
IB2367	4x2x1,0	15,7	282
IB2368	6x2x1,0	16,8	361
IB2369	8x2x1,0	19,5	456

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
IB2370	12x2x1,0	22,7	626
IB2371	16x2x1,0	25,7	804
IB2372	20x2x1,0	27,9	953
IB2373	24x2x1,0	30,2	1127
IB2374	2x2x1,5	13,7	230
IB2375	4x2x1,5	17,0	334
IB2376	6x2x1,5	18,2	435
IB2377	8x2x1,5	21,2	554
IB2378	12x2x1,5	24,8	767
IB2379	16x2x1,5	28,3	1002
IB2380	20x2x1,5	30,7	1197
IB2381	24x2x1,5	33,3	1417

*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