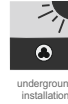
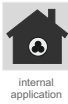


IB-BiT 1100® Power (St) TIMF



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: $U_i/U = 0,6/1$ 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:

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]
IB2465	2x3x0,75	14,9	232
IB2466	4x3x0,75	17,3	326
IB2467	6x3x0,75	20,3	455
IB2468	8x3x0,75	22,2	542
IB2469	12x3x0,75	26,5	719
IB2470	16x3x0,75	29,7	932
IB2471	20x3x0,75	33,1	1165
IB2472	24x3x0,75	37,1	1358
IB2473	2x3x1,0	15,7	259
IB2474	4x3x1,0	18,3	370
IB2475	6x3x1,0	21,5	520
IB2476	8x3x1,0	23,5	622

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
IB2477	12x3x1,0	28,3	867
IB2478	16x3x1,0	31,7	1124
IB2479	20x3x1,0	35,4	1405
IB2480	24x3x1,0	39,7	1642
IB2481	2x3x1,5	17,0	304
IB2482	4x3x1,5	19,9	445
IB2483	6x3x1,5	23,5	635
IB2484	8x3x1,5	25,7	764
IB2485	12x3x1,5	31,3	1087
IB2486	16x3x1,5	35,0	1414
IB2487	20x3x1,5	39,1	1768
IB2488	24x3x1,5	44,0	2087

*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