

BITNER BiT 1100[®] Power C PIMF GREY



Flame retardant and oil resistant screened power cables 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 (50Hz): 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: grey

Application:

Flame retardant and oil-resistant power supply cables designed for connections in control and signalling 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)**.

On customer's request version with tinned copper conductors also available: *BIT 1100[®] Power C PIMF GREY TIN*

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
ID8750	2x2x0,75	12,3	204
ID8751	4x2x0,75	15,1	286
ID8752	6x2x0,75	16,1	357
ID8753	8x2x0,75	18,6	446
ID8754	12x2x0,75	21,8	622
ID8755	16x2x0,75	24,5	785
ID8757	20x2x0,75	26,5	917
ID8758	24x2x0,75	18,7	1074
ID8759	2x2x1,0	12,9	226
ID8760	4x2x1,0	15,9	324
ID8761	6x2x1,0	17,0	408
ID8762	8x2x1,0	19,7	515
ID8763	12x2x1,0	23,1	720

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
ID8764	16x2x1,0	26,1	912
ID8765	20x2x1,0	28,5	1088
ID8766	24x2x1,0	30,6	1260
ID8767	2x2x1,5	13,9	267
ID8768	4x2x1,5	17,2	383
ID8769	6x2x1,5	18,4	490
ID8770	8x2x1,5	21,6	640
ID8771	12x2x1,5	25,2	874
ID8772	16x2x1,5	28,7	1130
ID8773	20x2x1,5	31,1	1330
ID8774	24x2x1,5	33,7	1562
ID9745	6x2x2,5	20,5	658
ID9744	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