

BITNER BiT 1100[®] Power (St) 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 (50 Hz): 4000 V

Mechanical parameters:

Min. bending radius:

flexible connections: 10 x Ø
fixed installation: 6 x Ø

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: 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 (St) PIMF GREY TIN*

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
ID8855	2x2x0,75	12,1	175
ID8856	4x2x0,75	14,9	246
ID8857	6x2x0,75	15,9	312
ID8858	8x2x0,75	18,4	394
ID8859	12x2x0,75	21,4	534
ID8860	16x2x0,75	24,1	684
ID8861	20x2x0,75	26,1	805
ID8862	24x2x0,75	28,3	952
ID8863	2x2x1,0	12,7	194
ID8864	4x2x1,0	15,7	282
ID8865	6x2x1,0	16,8	361
ID8866	8x2x1,0	19,5	456

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
ID8867	12x2x1,0	22,7	626
ID8868	16x2x1,0	25,7	804
ID8869	20x2x1,0	27,9	953
ID8870	24x2x1,0	30,2	1127
ID8871	2x2x1,5	13,7	230
ID8872	4x2x1,5	17,0	334
ID8873	6x2x1,5	18,2	435
ID8874	8x2x1,5	21,2	554
ID8875	12x2x1,5	24,8	767
ID8876	16x2x1,5	28,3	1002
ID8877	20x2x1,5	30,7	1197
ID8878	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