

BITNER[®] Bit 1100[®]Power (St) TIMF 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: $10 \times \varnothing$
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: 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) TIMF GREY TIN**

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
ID8825	2x3x0,75	14,9	232
ID8826	4x3x0,75	17,3	326
ID8827	6x3x0,75	20,3	455
ID8828	8x3x0,75	22,2	542
ID8829	12x3x0,75	26,5	719
ID8830	16x3x0,75	29,7	932
ID8831	20x3x0,75	33,1	1165
ID8832	24x3x0,75	37,1	1358
ID8833	2x3x1,0	15,7	259
ID8834	4x3x1,0	18,3	370
ID8835	6x3x1,0	21,5	520
ID8836	8x3x1,0	23,5	622

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
ID8837	12x3x1,0	28,3	867
ID8838	16x3x1,0	31,7	1124
ID8839	20x3x1,0	35,4	1405
ID8840	24x3x1,0	39,7	1642
ID8841	2x3x1,5	17,0	304
ID8842	4x3x1,5	19,9	445
ID8843	6x3x1,5	23,5	635
ID8844	8x3x1,5	25,7	764
ID8845	12x3x1,5	31,3	1087
ID8846	16x3x1,5	35,0	1414
ID8847	20x3x1,5	39,1	1768
ID8848	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