

# BITNER BIT 1000<sup>®</sup> PP PUR

Flexible power cable for very high mechanical requirements 0,6/1 kV



## Technical data:

### Thermal parameters:

#### Operating temperature:

fixed installation: -40 °C to 90 °C  
flexible connections: -20 °C to 90 °C  
temp. at conductor: 90 °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: 6 x  $\varnothing$   
fixed installations: 6 x  $\varnothing$

## Design:

### Conductor:

bare copper conductors, multi-stranded class 6  
acc. to IEC 60228

### Insulation:

PP

### Core identification:

white with black numerals with or without GNYE;  
single cores black or GNYE

### Core arrangement:

cores stranded in layers

### Outer sheath:

PUR (EN 60332-1-2, IEC 60332-1-2); colour: black

## Application:

Halogen-free power cable for high mechanical requirements and frequent bending. Especially for use in trolley systems, drag chains on moving parts of machines, conveyor facilities (for travelling speed on cable trolleys up to 240 m/min). Permanent tensile load without supporting element max. 25 N/mm<sup>2</sup> of dynamic load. Suitable for dry and damp rooms and for outdoor use. Cables classified according to EN 50575 (CPR).

### Single core cables

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS2150	1x16	9,6	206
BS2151	1x25	11,4	290
BS2152	1x35	12,7	395
BS2153	1x50	14,8	570
BS2154	1x70	16,9	770

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS2155	1x95	19,0	1005
BS2156	1x120	19,9	1285
BS2157	1x150	22,8	1545
BS2158	1x185	25,4	1820
BS2159	1x240	28,6	2395

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS2161	3x1,5	8,3	94
BS2162	4x1,5	9,0	114
BS2164	7x1,5	11,2	176
BS2165	12x1,5	13,8	280
BS2166	18x1,5	16,0	395
BS2167	24x1,5	18,5	510
BS2168	30x1,50	19,6	610
BS2170	3x2,5	9,6	138
BS2171	4x2,5	10,4	170
BS2172	5x2,5	11,3	203
BS2173	7x2,5	12,3	260
BS2174	12x2,5	16,3	435
BS2175	18x2,5	19,0	620

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
BS2176	24x2,5	22,1	810
BS2177	30x2,5	23,4	980
BS2178	4x4	11,5	242
BS2179	5x4	12,5	290
BS2180	4x6	12,7	305
BS2181	5x6	13,9	370
BS2182	4x10	16,0	490
BS2183	5x10	17,5	590
BS2184	4x16	18,6	770
BS2185	5x16	20,5	940
BS2186	4x25	23,0	1120
BS2187	5x25	25,3	1370
BS2188	4x35	26,5	1575
BS2189	4x50	31,6	2300

\*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