# BiTservo<sup>®</sup>UV 3plus 2XSLCYK-J FR

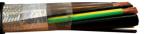


Highly flame retardant flexible motor connection cables for frequency converters, with improved current carrying capacity, symmetric construction, UV resistant, rated 0,6/1kV































Technical data:

### Thermal parameters:

Operating temperature: fixed installation: -40 °C to 80 °C flexible connections: -5 °C to 80 °C

Max. conductor operating temperature: 90 °C Max. conductor temperature in shortcircuit (1 sec.): 250 °C

#### Electrical parameters:

Operating voltage: U<sub>2</sub>/U=0.6/1kV

Test voltage: 4000V

#### Mechanical parameters:

Insulation resistance: > 200MΩxkm Capacitance:

Conductor/conductor: 70 to 250nF/km Conductor/screen: 110 to 410nF/km Min. bending radius:

Ø<12 mm - 5xØ Ø=12÷20 mm - 7,5xØ Ø>20 mm - 10xØ

## Design:

Outer sheath:

Special properties:

Conductors: bare copper conductors, multi-stranded class 5 acc.

to EN 60228

cross-linked polyethylene (XLPE) Inculation: Core identification:

black, brown, grey, 3 x green-yellow (3+3PE) Screens:

electrostatic screen made of aluminium backed poliester tape and a second screen made of tinned copper wire braid, total

screen coverage 100%

special PVC, self-extinguishing and highly flame retardant (as per EN 60332-1-2 and 60332-3-24 cat. C) with oxygen

index > 29; colour: black

- low capacitance

- fulfillment of electromagnetic compatibility requirements

- self- extinguishing sheath

- UV resistant sheath

\*Note: in order to ensure optimal screen earthing and the fulfilment of EMC (electromagnetic compatibility) requirements of the connection, we recommend using metal glands or a different type of circular earthing system (360°).

## Application:

Cables with special construction, used to supply power motors from frequency converters while maintaining full electromagnetic compatibility (EMC). The polyethylene insulation ensures low capacitance in comparison to PVC insulated cables. The cables are suitable for both fixed installation and flexible connections in industrial equipment, process lines and machines operating in dry and damp rooms. Black UV resistant sheath enables installation outside of buildings. The cable is also suitable for direct burial. Symmetric construction of the cable (3+3PE) ensures symmetry of voltages on motor terminals. Cables classified according to EN 50575 (CPR).

| Cat. no. | n x mm²      | Outer<br>diameter*<br>[mm] | Current-carrying capacity *) [A] | Approximate cable weight [kg/km] |
|----------|--------------|----------------------------|----------------------------------|----------------------------------|
| IP2220   | 3x1,5+3G0,25 | 10,8                       | 23                               | 155                              |
| IP2221   | 3x2,5+3G0,5  | 12,0                       | 32                               | 205                              |
| IP2222   | 3x4+3G0,75   | 13,0                       | 42                               | 270                              |
| IP2223   | 3x6+3G1      | 14,3                       | 54                               | 345                              |
| IP2224   | 3x10+3G1,5   | 16,7                       | 75                               | 520                              |
| IP2225   | 3x16+3G2,5   | 19,3                       | 100                              | 750                              |
| IP2226   | 3x25+3G4     | 23,2                       | 127                              | 1135                             |
| IP2227   | 3x35+3G6     | 26,1                       | 158                              | 1525                             |
| IP2228   | 3x50+3G10    | 30,2                       | 192                              | 2130                             |
| IP2229   | 3x70+3G10    | 34,7                       | 246                              | 2815                             |
| IP2230   | 3x95+3G16    | 38,7                       | 298                              | 3725                             |
| IP2231   | 3x120+3G16   | 42,0                       | 346                              | 4525                             |
| IP2232   | 3x150+3G25   | 48,3                       | 399                              | 5835                             |
| IP2233   | 3x185+3G35   | 54,1                       | 456                              | 7100                             |
| IP2234   | 3x240+3G50   | 60,0                       | 528                              | 9315                             |

<sup>\*</sup>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



<sup>\*\*) -</sup> current-carrying capacity of a single cable in air at a temperature of 30°C

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