

## PRODUCT SPECIFICATION

EPB51600

Low voltage power cables

Copper conductors, class 2

LSZH insulation

Halogen free bedding and outer sheath

### Reference standards

|                                 |                                      |
|---------------------------------|--------------------------------------|
|                                 | EN 60228                             |
| HD 604-5D (in applicable parts) | EN 50525                             |
| Flame retardant -               | EN 60332-1-2                         |
| Fire retardant -                | EN 60332-3-24                        |
|                                 | EN 50399                             |
| Reaction to fire –              | EN 50575 (D <sub>ca</sub> -s2,d2,a2) |

### Rated voltage

300/500 V

### Conductors identification - By colouring of insulation

HD 308

### Outer sheath colour

WHITE

### Marking

By printing on the outer sheath with the following details (example):

CABELTE IFXI nxS 500V Dca-s2,d2,a2 Year M.M.

Where:

N = number of conductors

S = Conductor cross-section (mm<sup>2</sup>)

Year = Year of manufacturing

M.M. = Metric marking

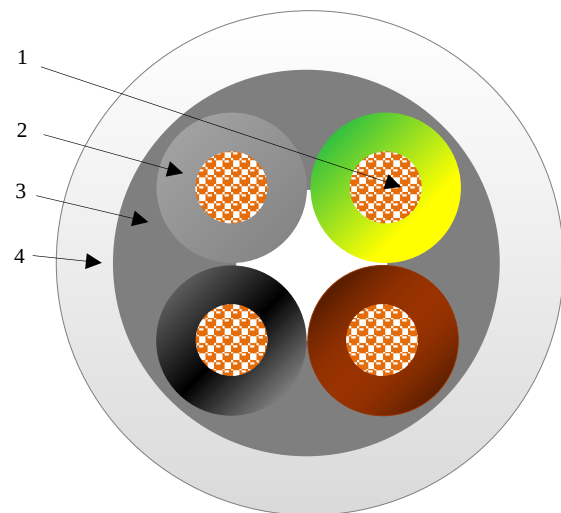
### Additional information

Maximum temperature in conductor, in normal operation – 70°C

Maximum temperature in conductor, in short-circuit (max. 5 seconds) – 160°C

Modular lengths – **Plastic drum 150/200/250/500/1000 m** or **Coil 50m** as specified by costumer. Note: other modular lengths can be combined between costumer and CABELTE.

## IFXI 500V



Cross sectional drawing – IFXI with 4 round copper conductors

### Legend:

- 1 – Copper conductor, according to EN 60228: round stranded class 2.
- 2 – LSZH insulation.
- 3 – LSZH bedding.
- 4 – Halogen free fire retardant thermoplastic compound.

### Mechanical characteristics

|                                              |                                         |
|----------------------------------------------|-----------------------------------------|
| Maximum pulling force over conductor (N)     | 50 x S<br>(S = conductor cross-section) |
| Minimum bending radius in installation (mm)  | 12 x D<br>(D = cable outer diameter)    |
| Minimum installation temperature             | -20°C                                   |
| Recommended minimum installation temperature | 0°C                                     |

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### Technical characteristics

|                                                | 3G1,5               | 3G2,5                             | 4G1,5     | 4G2,5   | 5G1,5   | 5G2,5               |
|------------------------------------------------|---------------------|-----------------------------------|-----------|---------|---------|---------------------|
| Ahlsell's article number (stock number)        | 1009061/<br>1009060 | 1009064N4/<br>1009065/<br>1009063 | 1009062N4 | 1009066 | 1009067 | 1009068/<br>1009069 |
| Approximated outer diameter (mm)               | 10                  | 12                                | 11        | 13      | 12      | 14                  |
| Approximated final weight (kg/km)              | 160                 | 220                               | 190       | 260     | 230     | 310                 |
| Min. bending radius – during installation (mm) | 120                 | 144                               | 132       | 156     | 144     | 168                 |
| Capacitance – indicative value (µF/km)         | 0,132               | 0,142                             | 0,130     | 0,139   | 0,128   | 0,136               |