

BiTcrane[®] (N)12YRD11YT11Y-J



Halogen free power and control cable for very high mechanical requirements, rated 0,6/1 kV



internal application



external application



high flexibility



UV resistance



EN 60811-404



halogen-free
EN 60756



low smoke emission
EN 60154



EN 60332-1-2

Technical data:

Thermal parameters:

Ambient temperature:

fixed installation: -50 °C to 90 °C

flexible operation: -40 °C to 90 °C

Max. permissible conductor temp.: 90 °C

Max. short-circuit temp. at conductor: 250 °C

Mechanical parameters:

Max. tensile load per conductor: 25 N/mm²

Bending radius:

- fixed installation: ≥ 6 x outer-Ø

- free moving: ≥ 7,5 x outer-Ø

Design:

Conductor:

bare copper wires, finely stranded, class 5 acc. to DIN EN/IEC 60228

Insulation:

based on polyester, core identification: acc. to DIN 0293-308 up to 5 wires colored, from 6 wires white, numbered (with or without green/yellow protective conductor)

Core arrangement:

cores stranded in layers around central element (central supporting element - aramid yarns)

Inner sheath:

halogen-free PUR compound; colour: black

Reinforcement:

textile braid between the sheaths

Outer sheath:

halogen-free PUR compound; colour: black, matt, inkjet marking

Application:

Halogen-free power and control cable for very high mechanical requirements, frequent bendings, especially for use in trolley systems, drag chains on moving parts of machines and conveyor facilities. Suitable for dry and wet rooms as well as for outdoor use.

Cable suitable for permanent use in water (AD8) up to 50m depth (not permitted for use in drinking water).

Chemical parameters:

Resistance to oil: DIN EN/IEC 60811-404

Behaviour in case of fire: DIN EN/IEC 60332-1-2

Weather resistance: unrestricted use indoors, outdoors, resistance to ozone, UV and moisture

Electrical parameters:

| | |
|--|----------------|
| Rated voltage U_n / U_0 : | 0,6/1 kV |
| Max. permissible operating voltage U_{bmax} in AC systems: | 0,7/1,2 kV |
| Max. permissible operating voltage U_{bmax} in DC systems: | 0,9/1,8 kV |
| AC. test voltage: | 2,5kV |
| Current-carrying capacities in amperes acc. to: | DIN VDE 0298-4 |

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| Cat. no. | n x mm ² | Outer diameter* min. – max. [mm] | Approximate cable weight* [kg/km] |
|----------|---------------------|--|---|
| BC00750 | 4 x 1,5 | 11,6 - 13,1 | 170 |
| BC00751 | 4 x 2,5 | 13,1 - 14,6 | 225 |
| BC00752 | 4 x 4 | 14,9 - 16,4 | 320 |
| BC00753 | 4 x 6 | 16,6 - 18,1 | 420 |
| BC00754 | 4 x 10 | 19,1 - 20,6 | 620 |
| BC00755 | 4 x 16 | 21,8 - 23,8 | 880 |
| BC00756 | 4 x 25 | 26,5 - 28,5 | 1335 |
| BC00757 | 4 x 35 | 29,6 - 31,6 | 1780 |

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| Cat. no. | n x mm ² | Outer diameter* min. – max. [mm] | Approximate cable weight* [kg/km] |
|----------|---------------------|--|---|
| BC00758 | 5 x 1,5 | 12,3 - 13,8 | 195 |
| BC00759 | 5 x 2,5 | 14,0 - 15,5 | 270 |
| BC00760 | 5 x 4 | 16,0 - 17,5 | 380 |
| BC00761 | 5 x 6 | 17,9 - 19,4 | 505 |
| BC00762 | 5 x 10 | 20,7 - 22,7 | 750 |
| BC00763 | 5 x 16 | 23,7 - 25,7 | 180 |
| BC00764 | 7 x 1,5 | 13,9 - 15,4 | 255 |
| BC00765 | 7 x 2,5 | 15,7 - 17,2 | 350 |
| BC00766 | 12 x 1,5 | 18,2 - 19,7 | 440 |
| BC00767 | 12 x 2,5 | 21,4 - 23,4 | 635 |
| BC00768 | 18 x 1,5 | 18,6 - 20,1 | 500 |
| BC00769 | 18 x 2,5 | 21,7 - 23,7 | 730 |
| BC00770 | 24 x 1,5 | 21,6 - 23,6 | 675 |
| BC00771 | 24 x 2,5 | 25,5 - 27,5 | 985 |
| BC00772 | 28 x 1,5 | 23,1 - 25,1 | 920 |
| BC00773 | 30 x 1,5 | 23,9 - 25,9 | 835 |
| BC00774 | 30 x 2,5 | 28,3 - 30,3 | 1230 |
| BC00775 | 36 x 2,5 | 28,3 - 30,3 | 1315 |
| BC00776 | 48 x 1,5 | 28,6 - 30,6 | 1535 |
| BC00777 | 4G16+2X(4X1,5)C | 25,8 - 27,8 | 1190 |
| BC00778 | 4G35+2X(4X1,5)C | 34,7 - 36,7 | 2195 |

Cable Factory BITNER reserves the right to modify specifications without prior notification.

*Cable weight may differ from the one shown in the table.