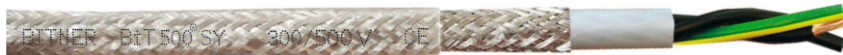


Flexible, control cables with number coded conductors and steel wire braid, rated 300/500 V



Technical data:

Thermal parameters:

Operating temperature:

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

Electrical parameters:

Operating voltage: $U_n/U = 300/500$ V

Test voltage (50 Hz): 3000 V

Insulation resistance: 20 M Ω x km

Mechanical parameters:

Min. bending radius:

flexible connections: 12 x \varnothing
 fixed installation: 6 x \varnothing

Design:

Conductors:

bare copper conductors, multi-stranded class 5

acc. to EN 60228

Insulation:

PVC compound

Core identification:

black, number coded conductors, cables with protective earth conductor marked G (e.g. 7G1,5)

Core arrangement:

cores twisted together

Inner sheath:

PVC compound, grey or white

Screen:

galvanized steel wire braid

Outer sheath:

PVC compound, oil resistant (see table of chemical resistance), self-extinguishing and flame retardant (acc. to EN 60332-1-2); colour: transparent

Application:

Flexible power and control cables designed for operation in control and protective devices as well as in control circuits. Also for power supply to low power portable and mobile devices. Steel wire braid and special reinforcing inner sheath make this cable more resistant to mechanical damages keeping its flexibility. Cables are suitable for fixed installations and for flexible connections in industrial devices, technological lines and machines operating in dry and damp rooms. BiT 500[®]SY cables are dedicated for applications in harsh conditions of industrial environment. Cables classified according to EN 50575 (CPR).

| Cat. no. | n x mm ² | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|---------------------|----------------------|----------------------------------|
| S56800 | 2x0,5 | 7,3 | 84 |
| S56801 | 3G0,5 | 7,6 | 92 |
| S56802 | 4G0,5 | 8,1 | 106 |
| S56803 | 5G0,5 | 8,5 | 118 |
| S56804 | 6G0,5 | 9,5 | 141 |
| S56805 | 7G0,5 | 9,5 | 144 |
| S56806 | 8G0,5 | 10,2 | 160 |
| S56807 | 10G0,5 | 11,7 | 205 |
| S56808 | 12G0,5 | 11,7 | 213 |
| S56809 | 14G0,5 | 12,1 | 232 |
| S56810 | 16G0,5 | 12,6 | 254 |
| S56811 | 18G0,5 | 13,2 | 276 |
| S56812 | 19G0,5 | 13,2 | 280 |
| S56813 | 2x0,75 | 7,7 | 94 |
| S56814 | 3G0,75 | 8,0 | 108 |
| S56815 | 4G0,75 | 8,6 | 122 |
| S56816 | 5G0,75 | 9,5 | 147 |
| S56817 | 6G0,75 | 10,1 | 166 |
| S56818 | 7G0,75 | 10,1 | 171 |
| S56819 | 8G0,75 | 10,8 | 194 |
| S56820 | 10G0,75 | 12,5 | 246 |
| S56821 | 12G0,75 | 12,5 | 256 |
| S56822 | 14G0,75 | 13,0 | 280 |
| S56823 | 16G0,75 | 13,8 | 314 |
| S56824 | 18G0,75 | 14,4 | 343 |
| S56825 | 19G0,75 | 14,4 | 348 |
| S56826 | 2x1,0 | 8,0 | 106 |
| S56827 | 3G1,0 | 8,3 | 119 |

| Cat. no. | n x mm ² | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|---------------------|----------------------|----------------------------------|
| S56828 | 4G1,0 | 9,9 | 166 |
| S56829 | 5G1,0 | 9,9 | 166 |
| S56830 | 6G1,0 | 10,5 | 188 |
| S56831 | 7G1,0 | 10,5 | 194 |
| S56832 | 8G1,0 | 11,5 | 227 |
| S56833 | 10G1,0 | 13,1 | 280 |
| S56834 | 12G1,0 | 13,1 | 293 |
| S56835 | 14G1,0 | 13,8 | 328 |
| S56836 | 16G1,0 | 14,5 | 364 |
| S56837 | 18G1,0 | 16,5 | 462 |
| S56838 | 19G1,0 | 15,1 | 404 |
| S56839 | 2x1,5 | 9,2 | 137 |
| S56840 | 3G1,5 | 9,6 | 157 |
| S56841 | 4G1,5 | 11,0 | 192 |
| S56842 | 5G1,5 | 11,0 | 210 |
| S56843 | 6G1,5 | 11,9 | 245 |
| S56844 | 7G1,5 | 11,9 | 255 |
| S56845 | 8G1,5 | 12,9 | 292 |
| S56846 | 10G1,5 | 15,0 | 369 |
| S56847 | 12G1,5 | 15,0 | 389 |
| S56848 | 14G1,5 | 16,0 | 444 |
| S56849 | 16G1,5 | 16,8 | 493 |
| S56850 | 18G1,5 | 17,5 | 541 |
| S56851 | 19G1,5 | 17,5 | 551 |
| S56852 | 2x2,5 | 10,3 | 178 |
| S56853 | 3G2,5 | 10,8 | 206 |
| S56854 | 4G2,5 | 11,9 | 249 |
| S56855 | 5G2,5 | 12,6 | 289 |

BiT 500[®]SY

Flexible, control cables with number coded conductors and steel wire braid, rated 300/500 V

| Cat. no. | n x mm ² | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|---------------------|----------------------|----------------------------------|
| S56856 | 6G2,5 | 13,8 | 339 |
| S56857 | 7G2,5 | 13,8 | 354 |
| S56859 | 10G2,5 | 17,7 | 526 |
| S56860 | 12G2,5 | 17,7 | 557 |

| Cat. no. | n x mm ² | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|---------------------|----------------------|----------------------------------|
| S56861 | 14G2,5 | 18,6 | 627 |
| S56862 | 16G2,5 | 19,5 | 698 |
| S56863 | 18G2,5 | 20,9 | 794 |
| S56864 | 19G2,5 | 20,9 | 809 |

*Outer diameter tolerance: +/- 5%;

Cable Factory BITNER reserves the right to modify the specifications without prior notice;

G - cables with green/yellow earthing conductor;

x- cables without green/yellow earthing conductor.

Note: on customer's request other cross sections or number of cores can be produced