

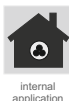
BiT 500[®]H B2ca



Flexible, halogen-free control cables with number coded conductors, rated 300/500 V



Industrial application



Internal application



EN 60332-1-2



IEC 60332-3-24
EN 60332-3-24



oxygen index



halogen-free
EN 60754



low smoke emission
EN 61034



high flexibility



UV resistant



B2ca-s1a,d0,a1

Technical data:

Thermal parameters:

Operating temperature:

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

Electrical parameters:

Operating voltage: $U_0/U = 300/500$ V

Test voltage (50 Hz): 3000 V

Insulation resistance: 20 MΩ x km

Mechanical parameters:

Min. bending radius:

fixed installation: 5 x Ø
flexible connections: 10 x Ø

Design:

Conductors:

bare copper conductors, multi-stranded class 5
acc. to EN 60228

Insulation:

halogen-free compound

Core identification:

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

Core arrangement:

cores twisted together or pairs twisted together

Outer sheath:

halogen-free compound, self-extinguishing and
flame retardant (acc. to EN 60332-1-2, EN 60332-3-24,
cat. C); colour: grey

Application:

Flexible, halogen-free power and control cables designed for operation in control and protective devices, as well as in control circuits. Designed especially for installation in industrial areas with increased fire safety requirements (limited flame propagation). Cables suitable for fixed installations and for flexible connections in industrial devices, technological lines and machines operating in dry and humid areas. Cables are halogen-free, low smoke and significantly limit flame propagation. Cables classified according to **EN 50575 (CPR)**.

| Cat no. | n x mm ² | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|---------|---------------------|----------------------|----------------------------------|
| H52310 | 2x0,5 | 5,0 | 38 |
| H52311 | 3G0,5 | 5,3 | 45 |
| H52312 | 3x0,5 | 5,3 | 45 |
| H52313 | 4G0,5 | 5,7 | 54 |
| H52314 | 4x0,5 | 5,7 | 54 |
| H52315 | 5G0,5 | 6,2 | 65 |
| H52316 | 5x0,5 | 6,2 | 65 |
| H52317 | 6G0,5 | 7,0 | 79 |
| H52318 | 7G0,5 | 7,0 | 83 |
| H52319 | 7x0,5 | 7,0 | 83 |
| H52320 | 8G0,5 | 7,7 | 96 |
| H52321 | 8x0,5 | 7,7 | 96 |
| H52322 | 10G0,5 | 9,4 | 132 |
| H52323 | 2x0,75 | 5,4 | 46 |
| H52324 | 3G0,75 | 5,7 | 56 |
| H52325 | 3x0,75 | 5,7 | 56 |
| H52326 | 4G0,75 | 6,2 | 67 |
| H52327 | 4x0,75 | 6,2 | 67 |
| H52328 | 5G0,75 | 7,0 | 84 |
| H52329 | 5x0,75 | 7,0 | 84 |
| H52330 | 6G0,75 | 7,6 | 99 |
| H52331 | 6x0,75 | 7,6 | 99 |
| H52332 | 7G0,75 | 7,6 | 104 |
| H52333 | 7x0,75 | 7,6 | 104 |
| H52334 | 8G0,75 | 8,3 | 121 |

| Cat no. | n x mm ² | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|---------|---------------------|----------------------|----------------------------------|
| H52335 | 8x0,75 | 8,3 | 121 |
| H52336 | 10G0,75 | 10,2 | 166 |
| H52337 | 12G0,75 | 10,2 | 177 |
| H52338 | 12x0,75 | 10,2 | 177 |
| H52339 | 14G0,75 | 10,7 | 198 |
| H52340 | 2x1,0 | 5,7 | 53 |
| H52341 | 3G1,0 | 6,1 | 66 |
| H52342 | 3x1,0 | 6,1 | 66 |
| H52343 | 4G1,0 | 6,8 | 83 |
| H52344 | 4x1,0 | 6,8 | 83 |
| H52345 | 5G1,0 | 7,4 | 100 |
| H52346 | 5x1,0 | 7,4 | 100 |
| H52347 | 6G1,0 | 8,0 | 117 |
| H52348 | 6x1,0 | 8,0 | 117 |
| H52349 | 7G1,0 | 8,0 | 124 |
| H52350 | 7x1,0 | 8,0 | 124 |
| H52351 | 8G1,0 | 9,2 | 153 |
| H52352 | 10G1,0 | 10,8 | 197 |
| H52353 | 10x1,0 | 10,8 | 197 |
| H52354 | 12G1,0 | 10,8 | 210 |
| H52355 | 12x1,0 | 10,8 | 210 |
| H52356 | 14G1,0 | 11,5 | 243 |
| H52357 | 18G1,0 | 12,8 | 304 |
| H52358 | 18x1,0 | 12,8 | 304 |
| H52359 | 2x1,5 | 6,7 | 75 |

BiT 500[®]H B2ca

Flexible, halogen-free control cables with number coded conductors, rated 300/500 V

Control cables 300/500 V

| Cat. no. | n x mm ² | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|---------------------|----------------------|----------------------------------|
| H52360 | 3G1,5 | 7,1 | 92 |
| H52361 | 3x1,5 | 7,1 | 92 |
| H52362 | 4G1,5 | 7,8 | 114 |
| H52363 | 4x1,5 | 7,8 | 114 |
| H52364 | 5G1,5 | 8,5 | 136 |
| H52365 | 5x1,5 | 8,5 | 136 |
| H52366 | 6G1,5 | 9,6 | 170 |
| H52367 | 6x1,5 | 9,6 | 170 |
| H52368 | 7G1,5 | 9,6 | 180 |
| H52369 | 7x1,5 | 9,6 | 180 |
| H52370 | 8G1,5 | 10,6 | 209 |
| H52371 | 10G1,5 | 12,7 | 275 |
| H52372 | 10x1,5 | 12,7 | 275 |
| H52373 | 12G1,5 | 12,7 | 296 |
| H52374 | 12x1,5 | 12,7 | 296 |
| H52375 | 14G1,5 | 13,5 | 340 |
| H52376 | 16G1,5 | 14,3 | 384 |
| H52377 | 18G1,5 | 15,0 | 428 |
| H52378 | 19G1,5 | 15,0 | 438 |
| H52379 | 20G1,5 | 16,2 | 488 |
| H52380 | 21G1,5 | 16,2 | 498 |
| H52381 | 25G1,5 | 18,5 | 608 |
| H52382 | 2x2,5 | 7,8 | 106 |
| H52383 | 3G2,5 | 8,3 | 132 |
| H52384 | 3x2,5 | 8,3 | 132 |
| H52385 | 4G2,5 | 9,5 | 173 |
| H52386 | 4x2,5 | 9,5 | 173 |
| H52387 | 5G2,5 | 10,3 | 208 |
| H52388 | 5x2,5 | 10,3 | 208 |
| H52389 | 6G2,5 | 11,5 | 252 |
| H52390 | 6x2,5 | 11,5 | 252 |
| H52391 | 7G2,5 | 11,5 | 268 |
| H52392 | 7x2,5 | 11,5 | 268 |
| H52393 | 8G2,5 | 12,7 | 311 |
| H52394 | 10G2,5 | 15,2 | 409 |
| H52395 | 12G2,5 | 15,2 | 440 |
| H52396 | 12x2,5 | 15,2 | 440 |
| H52397 | 14G2,5 | 16,3 | 515 |
| H52398 | 16G2,5 | 17,2 | 581 |

| Cat. no. | n x mm ² | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|---------------------|----------------------|----------------------------------|
| H52399 | 18G2,5 | 18,4 | 658 |
| H52400 | 19G2,5 | 18,4 | 674 |
| H52401 | 20G2,5 | 19,3 | 726 |
| H52402 | 21G2,5 | 19,3 | 742 |
| H52403 | 25G2,5 | 22,1 | 905 |
| H52404 | 30G2,5 | 22,9 | 1023 |
| H52405 | 32G2,5 | 23,7 | 1101 |
| H52406 | 2x4,0 | 9,5 | 166 |
| H52407 | 3G4,0 | 10,1 | 207 |
| H52408 | 3x4,0 | 10,1 | 207 |
| H52409 | 4G4,0 | 11,3 | 265 |
| H52410 | 4x4,0 | 11,3 | 265 |
| H52411 | 5G4,0 | 12,3 | 320 |
| H52412 | 6G4,0 | 13,6 | 384 |
| H52413 | 7G4,0 | 13,6 | 413 |
| H52414 | 8G4,0 | 15,1 | 483 |
| H52415 | 10G4,0 | 18,5 | 643 |
| H52416 | 12G4,0 | 18,5 | 700 |
| H52417 | 14G4,0 | 19,4 | 794 |
| H52418 | 16G4,0 | 20,5 | 899 |
| H52419 | 18G4,0 | 21,8 | 1014 |
| H52420 | 19G4,0 | 21,8 | 1043 |
| H52421 | 2x6,0 | 10,7 | 233 |
| H52422 | 3G6,0 | 11,5 | 286 |
| H52423 | 3x6,0 | 11,5 | 286 |
| H52424 | 4G6,0 | 12,8 | 360 |
| H52425 | 4x6,0 | 12,8 | 360 |
| H52426 | 5G6,0 | 14,1 | 442 |
| H52427 | 5x6,0 | 14,1 | 442 |
| H52428 | 7G6,0 | 15,4 | 564 |
| H52429 | 12G6,0 | 20,9 | 956 |
| H52430 | 18G6,0 | 25,2 | 1410 |
| H52431 | 19G6,0 | 25,2 | 1461 |
| H52432 | 3G10 | 14,1 | 450 |
| H52433 | 3x10 | 14,1 | 450 |
| H52434 | 4G10 | 16,1 | 587 |
| H52435 | 4x10 | 16,1 | 587 |
| H52436 | 5G10 | 17,5 | 711 |
| H52437 | 7G10 | 19,3 | 922 |

paired cables

| Cat. no. | n x mm ² | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|---------------------|----------------------|----------------------------------|
| H52438 | 2x2x0,5 | 7,3 | 66 |
| H52439 | 3x2x0,5 | 8,2 | 75 |
| H52440 | 4x2x0,5 | 9,3 | 102 |
| H52441 | 5x2x0,5 | 10,0 | 128 |
| H52442 | 6x2x0,5 | 10,3 | 136 |
| H52443 | 7x2x0,5 | 11,8 | 163 |
| H52444 | 8x2x0,5 | 12,3 | 181 |
| H52445 | 10x2x0,5 | 13,2 | 215 |
| H52446 | 2x2x0,75 | 7,9 | 81 |

| Cat. no. | n x mm ² | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|----------|---------------------|----------------------|----------------------------------|
| H52447 | 3x2x0,75 | 9,3 | 103 |
| H52448 | 4x2x0,75 | 10,1 | 127 |
| H52449 | 5x2x0,75 | 10,9 | 159 |
| H52450 | 6x2x0,75 | 11,5 | 178 |
| H52451 | 7x2x0,75 | 12,8 | 205 |
| H52452 | 8x2x0,75 | 13,6 | 235 |
| H52453 | 10x2x0,75 | 14,6 | 280 |
| H52454 | 12x2x0,75 | 16,0 | 341 |
| H52455 | 14x2x0,75 | 16,9 | 387 |

*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