

# HELUCONTROL® JZ-520-HMH LSOH GREY

CPR: B2ca, flexible control cable, halogen-free, extremely fire resistant



HELUCONTROL® JZ-520-HMH LSOH GREY

## Technical data

- halogen-free flexible control cable acc. to DIN VDE 0482-575 / DIN EN 50575
- **Temperature range**  
flexing -15°C to +70°C  
fixed installation -40°C to +70°C
- **Nominal voltage**  
U<sub>0</sub>/U 300/500 V
- **Test voltage**  
2000 V
- **Minimum bending radius**  
flexing 12,5x cable Ø  
fixed 4x cable Ø
- **CPR**  
B2ca s1a d0 a1

## Cable structure

- bare copper-conductor acc. to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- core insulation: halogen-free polymer compound type T17 acc. to DIN VDE 0207-363-7 / DIN EN 50363-7
- core identification: black cores with continuous white numbering
- GN-YE conductor, 3 cores and above in the outer layer
- cores stranded in layers with optimal lay-length
- outer sheath: halogen-free polymer compound type M1 acc. to DIN VDE 0207-363-0 / DIN EN 50363-0
- outer sheath colour: grey (RAL 7001)
- with meter marking

## Properties

- the materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Tests

- reaction to fire acc. to DIN EN 50399 / DIN VDE 0482-399
- flame retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- flame test on bunched wires acc. to DIN VDE 0482-322-3-24 / DIN EN 60332-3-24 / IEC 60332-3-24 & DIN VDE 0482-322-3-22 / DIN EN 60332-3-22 / IEC 60332-3-22
- corrosiveness of combustion gases acc. to DIN VDE 0482-754-2 / DIN EN 60754-2 / IEC 60754-2
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2
- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- oil resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404

## Note

- CPR: Cca for 2x0.5, 3G0.5, 2x0.75, 3G0.75
- G = with green-yellow conductor  
x = without green-yellow conductor (OZ)
- screened analogue type:  
HELUCONTROL® JZ-520-HMH-C LSOH GREY

## Application

Used as measuring, monitoring and control cable in: machine tooling, conveyor belt systems, production lines, plant installations, air-conditioning systems, foundries and steel mills. For use in fixed and flexible applications with little to medium mechanical stress, occasional free movement and no tensile load stress. The cable is suitable for use in dry, damp and wet locations and on plaster.

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

| Part no. | No. cores x cross-sec. mm <sup>2</sup> | Outer Ø app. mm | Copper weight kg / km | Weight app. kg / km |
|----------|--|-----------------|-----------------------|---------------------|
| 11008617 | 2 x 0,5                                | 4,8             | 9,6                   | 43                  |
| 11008618 | 3 G 0,5                                | 5,1             | 14,4                  | 50                  |
| 11008619 | 3 x 0,5                                | 5,1             | 14,4                  | 50                  |
| 11008620 | 4 G 0,5                                | 5,5             | 19,2                  | 55                  |
| 11008621 | 4 x 0,5                                | 5,5             | 19,2                  | 55                  |
| 11008622 | 5 G 0,5                                | 6,2             | 24,0                  | 66                  |
| 11008623 | 5 x 0,5                                | 6,2             | 24,0                  | 66                  |
| 11008624 | 7 G 0,5                                | 6,7             | 33,6                  | 81                  |
| 11008627 | 12 G 0,5                               | 8,7             | 57,6                  | 126                 |
| 11008629 | 18 G 0,5                               | 10,7            | 86,4                  | 194                 |
| 11008631 | 25 G 0,5                               | 14,3            | 180,0                 | 345                 |
| 11008640 | 2 x 0,75                               | 5,3             | 14,4                  | 47                  |
| 11008641 | 3 G 0,75                               | 5,6             | 21,6                  | 56                  |
| 11008642 | 3 x 0,75                               | 5,6             | 21,6                  | 56                  |
| 11008643 | 4 G 0,75                               | 6,3             | 28,8                  | 72                  |
| 11008644 | 4 x 0,75                               | 6,3             | 28,8                  | 72                  |
| 11008645 | 5 G 0,75                               | 6,9             | 36,0                  | 86                  |
| 11008646 | 5 x 0,75                               | 6,9             | 36,0                  | 86                  |
| 11008647 | 7 G 0,75                               | 7,5             | 50,4                  | 107                 |
| 11008648 | 7 x 0,75                               | 7,5             | 50,4                  | 107                 |

| Part no. | No. cores x cross-sec. mm <sup>2</sup> | Outer Ø app. mm | Copper weight kg / km | Weight app. kg / km |
|----------|--|-----------------|-----------------------|---------------------|
| 11008651 | 12 G 0,75                              | 9,8             | 86,4                  | 173                 |
| 11008653 | 18 G 0,75                              | 12,2            | 129,6                 | 266                 |
| 11008655 | 25 G 0,75                              | 14,3            | 180,0                 | 345                 |
| 11008664 | 2 x 1                                  | 5,6             | 19,2                  | 55                  |
| 11008665 | 3 G 1                                  | 5,9             | 28,8                  | 66                  |
| 11008666 | 3 x 1                                  | 5,9             | 28,8                  | 66                  |
| 11008667 | 4 G 1                                  | 6,6             | 38,4                  | 83                  |
| 11008668 | 4 x 1                                  | 6,6             | 38,4                  | 83                  |
| 11008669 | 5 G 1                                  | 7,3             | 48,0                  | 101                 |
| 11008670 | 7 G 1                                  | 8,1             | 67,2                  | 130                 |
| 11008673 | 12 G 1                                 | 10,4            | 115,0                 | 207                 |
| 11008675 | 18 G 1                                 | 12,9            | 172,8                 | 314                 |
| 11008677 | 25 G 1                                 | 15,4            | 240,0                 | 423                 |
| 11008685 | 2 x 1,5                                | 6,4             | 28,8                  | 74                  |
| 11008686 | 3 G 1,5                                | 6,8             | 43,2                  | 90                  |
| 11008687 | 3 x 1,5                                | 6,8             | 43,2                  | 90                  |
| 11008688 | 4 G 1,5                                | 7,4             | 57,6                  | 110                 |
| 11008689 | 5 G 1,5                                | 8,3             | 72,0                  | 136                 |
| 11008690 | 7 G 1,5                                | 9,2             | 100,8                 | 175                 |
| 11008693 | 12 G 1,5                               | 11,8            | 172,8                 | 276                 |

Continuation ▶

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| Part no. | No. cores x cross-sec. mm <sup>2</sup> | Outer Ø app. mm | Copper weight kg / km | Weight app. kg / km | Part no. | No. cores x cross-sec. mm <sup>2</sup> | Outer Ø app. mm | Copper weight kg / km | Weight app. kg / km |
|----------|--|-----------------|-----------------------|---------------------|----------|--|-----------------|-----------------------|---------------------|
| 11008695 | 18 G 1,5                               | 14,6            | 259,2                 | 421                 | 11008720 | 7 G 4                                  | 13,2            | 268,8                 | 403                 |
| 11008697 | 25 G 1,5                               | 17,4            | 360,0                 | 563                 | 11008726 | 2 x 6                                  | 11,0            | 115,2                 | 240                 |
| 11008703 | 2 x 2,5                                | 7,8             | 48,0                  | 114                 | 11008727 | 3 G 6                                  | 11,9            | 172,8                 | 304                 |
| 11008704 | 3 G 2,5                                | 8,3             | 72,0                  | 139                 | 11008728 | 4 G 6                                  | 13,0            | 230,4                 | 377                 |
| 11008705 | 4 G 2,5                                | 9,2             | 96,0                  | 175                 | 11008729 | 5 G 6                                  | 14,5            | 288,0                 | 468                 |
| 11008706 | 5 G 2,5                                | 10,1            | 120,0                 | 212                 | 11008730 | 7 G 6                                  | 16,2            | 403,2                 | 611                 |
| 11008707 | 7 G 2,5                                | 11,2            | 168,0                 | 273                 | 11008731 | 2 x 10                                 | 13,8            | 192,0                 | 385                 |
| 11008710 | 12 G 2,5                               | 14,8            | 288,0                 | 458                 | 11008732 | 3 G 10                                 | 14,9            | 288,0                 | 488                 |
| 11008716 | 2 x 4                                  | 9,3             | 76,8                  | 167                 | 11008733 | 4 G 10                                 | 16,5            | 384,0                 | 615                 |
| 11008717 | 3 G 4                                  | 9,8             | 115,2                 | 204                 | 11008734 | 5 G 10                                 | 18,3            | 480,0                 | 759                 |
| 11008718 | 4 G 4                                  | 10,9            | 153,6                 | 258                 | 11008735 | 7 G 10                                 | 20,2            | 672,0                 | 978                 |
| 11008719 | 5 G 4                                  | 12,1            | 192,0                 | 317                 |          |  |                 |                       |                     |

Dimensions and specifications may be changed without prior notice.