

# HELUCONTROL® JZ-510-HMH-C LSOH GREY



flexible, number coded, screened, halogen-free, meter marking, increased flame retardancy Cca



HELUCONTROL® JZ-510-HMH-C LSOH GREY CE

## TECHNICAL DATA

**Halogen-free control cable acc. to DIN VDE0285-525-2-51 / DIN EN 50525-2-51 and DIN VDE 0285-525-3-11 / DIN EN 50525-3-11**

|                               |  |
|-------------------------------|--|
| <b>Temperature range</b>      | flexible -25°C to +70°C<br>fixed installation -40°C to +70°C |
| <b>Nominal voltage</b>        | U <sub>0</sub> /U 300/500 V                                  |
| <b>Test voltage</b>           | core/core 4000 V<br>core/screen 2000 V                       |
| <b>Coupling resistance</b>    | max. 250 Ohm/km at 30 Mhz                                    |
| <b>Minimum bending radius</b> | flexible 12,5x outer ø<br>fixed installation 4x outer ø      |
| <b>CPR</b>                    | Cca s1 d2 a1   |

## PROPERTIES

- The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

## TESTS

- Flame test acc. to DIN VDE 0482-332-3-24 / DIN EN 60332-3-24 / IEC 60332-3-24
- Flame retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- Corrosiveness of combustion gases acc. to DIN VDE 0482-754-2 / DIN EN 60754-2 / IEC 60754-2
- Halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- Smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2

## CABLE STRUCTURE

- Bare copper conductor, fine wire acc. to DIN VDE 0295 class 5 / IEC 60228 class 5
- Core insulation of halogen-free polymer compound type Tl6 acc. to DIN VDE 0207-363-7 / DIN EN 50363-7
- Core identification to DIN VDE 0293 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
- Separating foil
- Tinner copper braided screen, approx. 85% coverage
- Outer sheath of halogen-free polymer compound type TM7 acc. to DIN VDE 0207-363-8 / DIN EN 50363-8
- Sheath colour: grey (RAL 7001)
- With meter marking

## APPLICATION

Connecting and control cable in tool machinery, conveyor belts, production lines, in plant, in air-conditioning, in foundries and steel mills. For fixed installation or flexible application, casual, not constantly recurring free movement without forced motion and without tensile stress, for medium mechanical stress. The cable is suitable for use in dry, damp and wet locations and on plaster.

## NOTES

- G = with green/yellow conductor  
X = without green/yellow conductor (OZ)
- The conductor is metrically constructed (mm<sup>2</sup>). The AWG designation is approximate and purely informative
- Unscreened analogue type: JZ-510-HMH

| Part no. | No. cores x cross-sec. mm <sup>2</sup> | Outer-ø app. mm | Cu-weight kg/km | Weight kg/km, approx. |
|----------|--|-----------------|-----------------|-----------------------|
| 11021678 | 2 x 0.5                                | 5.6             | 35.0            | 46.0                  |
| 11021679 | 3 G 0.5                                | 5.9             | 42.0            | 56.0                  |
| 11021680 | 3 x 0.5                                | 5.9             | 42.0            | 56.0                  |
| 11021681 | 4 G 0.5                                | 6.3             | 47.0            | 62.0                  |
| 11021682 | 4 x 0.5                                | 6.3             | 47.0            | 62.0                  |
| 11021683 | 5 G 0.5                                | 6.8             | 56.0            | 75.0                  |
| 11021684 | 7 G 0.5                                | 7.3             | 69.0            | 98.0                  |
| 11021685 | 12 G 0.5                               | 9.7             | 108.0           | 158.0                 |
| 11021686 | 18 G 0.5                               | 11.3            | 145.0           | 216.0                 |
| 11021687 | 25 G 0.5                               | 13.4            | 240.0           | 315.0                 |

| Part no. | No. cores x cross-sec. mm <sup>2</sup> | Outer-ø app. mm | Cu-weight kg/km | Weight kg/km, approx. |
|----------|--|-----------------|-----------------|-----------------------|
| 11021688 | 2 x 0.75                               | 6.1             | 40.0            | 60.0                  |
| 11021689 | 3 G 0.75                               | 6.4             | 52.0            | 68.0                  |
| 11021690 | 3 x 0.75                               | 6.4             | 52.0            | 68.0                  |
| 11021691 | 4 G 0.75                               | 6.9             | 60.0            | 78.0                  |
| 11021692 | 4 x 0.75                               | 6.9             | 60.0            | 78.0                  |
| 11021693 | 5 G 0.75                               | 7.5             | 71.0            | 95.0                  |
| 11021694 | 7 G 0.75                               | 8.3             | 91.0            | 130.0                 |
| 11021695 | 12 G 0.75                              | 10.9            | 142.0           | 203.0                 |
| 11021696 | 18 G 0.75                              | 12.8            | 212.0           | 290.0                 |
| 11021697 | 25 G 0.75                              | 15.1            | 281.0           | 413.0                 |

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| Part no. | No. cores x cross-sec. mm <sup>2</sup> | Outer-ø mm | Cu-weight kg/km | Weight kg/km, approx. | Part no. | No. cores x cross-sec. mm <sup>2</sup> | Outer-ø mm | Cu-weight kg/km | Weight kg/km, approx. |
|----------|--|------------|-----------------|-----------------------|----------|--|------------|-----------------|-----------------------|
| 11021698 | 2 x 1                                  | 6.4        | 50.0            | 66.0                  | 11021713 | 5 G 1.5                                | 8.9        | 119.0           | 158.0                 |
| 11021699 | 3 G 1                                  | 6.8        | 60.0            | 80.0                  | 11021714 | 7 G 1.5                                | 9.8        | 147.0           | 210.0                 |
| 11021700 | 3 x 1                                  | 6.8        | 60.0            | 80.0                  | 11021715 | 12 G 1.5                               | 13.2       | 267.0           | 340.0                 |
| 11021701 | 4 G 1                                  | 7.3        | 71.0            | 100.0                 | 11021716 | 18 G 1.5                               | 15.6       | 374.0           | 480.0                 |
| 11021702 | 4 x 1                                  | 7.3        | 71.0            | 100.0                 | 11021717 | 25 G 1.5                               | 18.2       | 526.0           | 702.0                 |
| 11021703 | 5 G 1                                  | 8.1        | 88.0            | 130.0                 | 11021718 | 3 G 2.5                                | 8.9        | 144.0           | 168.0                 |
| 11021704 | 7 G 1                                  | 8.7        | 111.0           | 160.0                 | 11021719 | 4 G 2.5                                | 9.9        | 148.0           | 195.0                 |
| 11021705 | 12 G 1                                 | 11.6       | 184.0           | 260.0                 | 11021720 | 5 G 2.5                                | 10.9       | 181.0           | 222.0                 |
| 11021706 | 18 G 1                                 | 13.7       | 260.0           | 382.0                 | 11021721 | 7 G 2.5                                | 11.8       | 255.0           | 345.0                 |
| 11021707 | 25 G 1                                 | 16.2       | 349.0           | 540.0                 | 11021722 | 12 G 2.5                               | 16.1       | 441.0           | 572.0                 |
| 11021708 | 2 x 1.5                                | 7.0        | 63.0            | 88.0                  | 11021723 | 18 G 2.5                               | 18.9       | 570.0           | 680.0                 |
| 11021709 | 3 G 1.5                                | 7.4        | 80.0            | 100.0                 | 11021724 | 25 G 2.5                               | 21.7       | 830.0           | 950.0                 |
| 11021710 | 3 x 1.5                                | 7.4        | 80.0            | 100.0                 | 11021725 | 4 G 4                                  | 11.5       | 230.0           | 305.0                 |
| 11021711 | 4 G 1.5                                | 8.2        | 97.0            | 125.0                 | 11021726 | 4 G 6                                  | 14.1       | 305.0           | 416.0                 |
| 11021712 | 4 x 1.5                                | 8.2        | 97.0            | 125.0                 | 11021727 | 4 G 10                                 | 17.4       | 535.0           | 785.0                 |