

# JZ-600 HMH

flexible control cable, halogen-free, extremely fire resistant, oil resistant<sup>1)</sup>, 0,6/1 kV, meter marking



## Technical data

- Halogen-free, flexible control cable, adapted to DIN VDE 0285-525-2-51 / DIN EN 50525-2-51 and DIN VDE 0285-525-3-11 / DIN EN 50525-3-11
- **Temperature range**  
flexing -15°C to +70°C  
fixed -40°C to +70°C
- **Nominal voltage**  
U<sub>0</sub>/U 0,6/1 kV
- **Test voltage**  
4000 V
- **Minimum bending radius**  
flexing 15x cable Ø  
fixed installation 7,5x cable Ø
- **Radiation resistance**  
up to 100x10<sup>6</sup> cJ/kg (up to 100 Mrad)

## Cable structure

- Bare copper conductor, to DIN VDE 0295 cl.5, fine wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of halogen-free polymer compound type T16 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
- Outer sheath of halogen-free polymer compound type TM7 to DIN VDE 0207-363-8 / DIN EN 50363-8
- Sheath colour: black (RAL 9005)
- With meter marking
- **LS0H**= Low Smoke Zero Halogen

## Properties

- <sup>1)</sup> For critical applications, we recommend that you consult
- 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, BS 4066 part 3, DIN EN 60332-3-24, IEC 60332-3-24 (previously DIN VDE 0472 part 804 test method C)
- Self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2 (equivalent DIN VDE 0472 part 804 test method B)
- Corrosiveness of combustion gases acc. to DIN VDE 0482-754-2, DIN EN 60754-2, IEC 60754-2 (previously DIN VDE 0482-267-2-2)
- Halogen-free acc. to DIN VDE 0482-754-1, DIN EN 60754-1, IEC 60754-1 (previously DIN VDE 0482-267-2-1)
- Smoke density acc. to DIN VDE 0482 part 1034-1+2, DIN EN 61034-1+2, IEC 61034-1+2, BS 7622 part 1+2

## Note

- G = with GN-YE conductor  
x = without GN-YE conductor (OZ)
- AWG sizes are approximate equivalent values. The actual cross section is in mm<sup>2</sup>.
- Screened analogue type:

### JZ-600 HMH-C

## Application

Halogen-free, flame retardant cables are used as measuring and control cable in machine tools, conveyor belts, production lines as well as in plant installations, in heating and air-conditioning systems and steel production works. For fixed installation or flexible application, directed without forcing by casual, constantly recurring free movements and without tensile stress, for medium mechanical strain. This cable is suitable for the application in dry, damp and wet environments, outdoors (fixed installation) and for laying on plaster.

**EMC** = Electromagnetic compatibility

To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

**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 | Cop. weight kg / km | Weight app. kg / km | AWG-No. |
|----------|--|-----------------|---------------------|---------------------|---------|
| 12723    | 2 x 0,5                                | 6,3             | 9,6                 | 57,0                | 20      |
| 12724    | 3 G 0,5                                | 6,6             | 14,4                | 69,0                | 20      |
| 12725    | 3 x 0,5                                | 6,6             | 14,4                | 69,0                | 20      |
| 12726    | 4 G 0,5                                | 7,2             | 19,0                | 104,0               | 20      |
| 12727    | 4 x 0,5                                | 7,2             | 19,0                | 104,0               | 20      |
| 12728    | 5 G 0,5                                | 8,0             | 24,0                | 121,0               | 20      |
| 12729    | 5 x 0,5                                | 8,0             | 24,0                | 121,0               | 20      |
| 12730    | 7 G 0,5                                | 8,7             | 33,6                | 145,0               | 20      |
| 12731    | 10 G 0,5                               | 10,3            | 48,0                | 186,0               | 20      |
| 12732    | 12 G 0,5                               | 11,2            | 58,0                | 224,0               | 20      |
| 12733    | 18 G 0,5                               | 13,8            | 86,0                | 292,0               | 20      |
| 12734    | 25 G 0,5                               | 16,1            | 120,0               | 357,0               | 20      |

| Part no. | No. cores x cross-sec. mm <sup>2</sup> | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km | AWG-No. |
|----------|--|-----------------|---------------------|---------------------|---------|
| 12735    | 2 x 0,75                               | 6,6             | 14,4                | 68,0                | 19      |
| 12736    | 3 G 0,75                               | 6,9             | 21,6                | 77,0                | 19      |
| 12737    | 3 x 0,75                               | 6,9             | 21,6                | 77,0                | 19      |
| 12738    | 4 G 0,75                               | 7,5             | 29,0                | 136,0               | 19      |
| 12739    | 4 x 0,75                               | 7,5             | 29,0                | 136,0               | 19      |
| 12740    | 5 G 0,75                               | 8,4             | 36,0                | 152,0               | 19      |
| 12741    | 5 x 0,75                               | 8,4             | 36,0                | 152,0               | 19      |
| 12742    | 7 G 0,75                               | 9,3             | 50,0                | 208,0               | 19      |
| 12743    | 10 G 0,75                              | 11,4            | 72,0                | 250,0               | 19      |
| 12744    | 12 G 0,75                              | 12,2            | 86,0                | 271,0               | 19      |
| 12745    | 18 G 0,75                              | 14,5            | 130,0               | 387,0               | 19      |
| 12746    | 25 G 0,75                              | 17,2            | 180,0               | 498,0               | 19      |

Continuation ▶

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| Part no. | No. cores x cross-sec. mm <sup>2</sup> | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km | AWG-No. |
|----------|--|-----------------|---------------------|---------------------|---------|
| 12747    | 2 x 1                                  | 7,0             | 19,2                | 82,0                | 18      |
| 12748    | 3 G 1                                  | 7,4             | 29,0                | 99,0                | 18      |
| 12749    | 3 x 1                                  | 7,4             | 29,0                | 99,0                | 18      |
| 12750    | 4 G 1                                  | 8,2             | 38,4                | 140,0               | 18      |
| 12751    | 4 x 1                                  | 8,2             | 38,4                | 140,0               | 18      |
| 12752    | 5 G 1                                  | 9,2             | 48,0                | 160,0               | 18      |
| 12753    | 5 x 1                                  | 9,2             | 48,0                | 160,0               | 18      |
| 12754    | 7 G 1                                  | 9,9             | 67,0                | 217,0               | 18      |
| 12755    | 10 G 1                                 | 11,9            | 96,0                | 271,0               | 18      |
| 12756    | 12 G 1                                 | 12,8            | 115,0               | 301,0               | 18      |
| 12757    | 18 G 1                                 | 15,7            | 173,0               | 417,0               | 18      |
| 12758    | 25 G 1                                 | 18,6            | 240,0               | 576,0               | 18      |
| 12759    | 2 x 1,5                                | 8,2             | 29,0                | 97,0                | 16      |
| 12760    | 3 G 1,5                                | 8,6             | 43,0                | 119,0               | 16      |
| 12761    | 3 x 1,5                                | 8,6             | 43,0                | 119,0               | 16      |
| 12762    | 4 G 1,5                                | 9,6             | 58,0                | 148,0               | 16      |
| 12763    | 4 x 1,5                                | 9,6             | 58,0                | 148,0               | 16      |
| 12764    | 5 G 1,5                                | 10,7            | 72,0                | 172,0               | 16      |
| 12765    | 5 x 1,5                                | 10,7            | 72,0                | 172,0               | 16      |
| 12766    | 7 G 1,5                                | 11,6            | 101,0               | 243,0               | 16      |
| 12767    | 10 G 1,5                               | 15,2            | 144,0               | 311,0               | 16      |
| 12768    | 12 G 1,5                               | 15,5            | 173,0               | 392,0               | 16      |
| 12769    | 18 G 1,5                               | 18,6            | 259,0               | 529,0               | 16      |
| 12770    | 25 G 1,5                               | 22,5            | 360,0               | 741,0               | 16      |
| 12771    | 2 x 2,5                                | 9,6             | 48,0                | 160,0               | 14      |
| 12772    | 3 G 2,5                                | 10,1            | 72,0                | 177,0               | 14      |
| 12773    | 3 x 2,5                                | 10,1            | 72,0                | 177,0               | 14      |
| 12774    | 4 G 2,5                                | 11,2            | 96,0                | 209,0               | 14      |
| 12775    | 4 x 2,5                                | 11,2            | 96,0                | 209,0               | 14      |

| Part no. | No. cores x cross-sec. mm <sup>2</sup> | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km | AWG-No. |
|----------|--|-----------------|---------------------|---------------------|---------|
| 12776    | 5 G 2,5                                | 12,5            | 120,0               | 272,0               | 14      |
| 12777    | 5 x 2,5                                | 12,5            | 120,0               | 272,0               | 14      |
| 12778    | 7 G 2,5                                | 13,8            | 168,0               | 340,0               | 14      |
| 12779    | 10 G 2,5                               | 16,6            | 288,0               | 561,0               | 14      |
| 12780    | 12 G 2,5                               | 18,3            | 432,0               | 799,0               | 14      |
| 12781    | 18 G 2,5                               | 22,0            | 480,0               | 940,0               | 14      |
| 12782    | 25 G 2,5                               | 26,2            | 600,0               | 1121,0              | 14      |
| 12783    | 3 G 4                                  | 11,7            | 115,0               | 255,0               | 12      |
| 12784    | 4 G 4                                  | 12,9            | 154,0               | 319,0               | 12      |
| 12785    | 5 G 4                                  | 14,4            | 192,0               | 423,0               | 12      |
| 12786    | 3 G 6                                  | 13,1            | 173,0               | 380,0               | 10      |
| 12787    | 4 G 6                                  | 14,5            | 230,0               | 441,0               | 10      |
| 12788    | 5 G 6                                  | 16,2            | 288,0               | 657,0               | 10      |
| 12789    | 3 G 10                                 | 16,8            | 288,0               | 668,0               | 8       |
| 12790    | 4 G 10                                 | 18,5            | 384,0               | 796,0               | 8       |
| 12791    | 5 G 10                                 | 20,5            | 480,0               | 972,0               | 8       |
| 12792    | 3 G 16                                 | 20,2            | 461,0               | 832,0               | 6       |
| 12793    | 4 G 16                                 | 22,4            | 614,0               | 1122,0              | 6       |
| 12794    | 5 G 16                                 | 25,0            | 768,0               | 1604,0              | 6       |
| 12795    | 3 G 25                                 | 24,8            | 720,0               | 1457,0              | 4       |
| 12796    | 4 G 25                                 | 27,4            | 960,0               | 1611,0              | 4       |
| 12797    | 5 G 25                                 | 30,5            | 1200,0              | 2070,0              | 4       |
| 12798    | 3 G 35                                 | 27,4            | 1008,0              | 1914,0              | 2       |
| 12799    | 4 G 35                                 | 30,3            | 1344,0              | 2424,0              | 2       |
| 12800    | 5 G 35                                 | 33,6            | 1680,0              | 2970,0              | 2       |
| 12801    | 4 G 50                                 | 35,8            | 1920,0              | 3467,0              | 1       |
| 12802    | 4 G 70                                 | 40,8            | 2688,0              | 4491,0              | 2/0     |
| 12803    | 4 G 95                                 | 46,2            | 3648,0              | 6170,0              | 3/0     |
| 12804    | 4 G 120                                | 51,6            | 4608,0              | 7618,0              | 4/0     |

Dimensions and specifications may be changed without prior notice. (RA03)

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