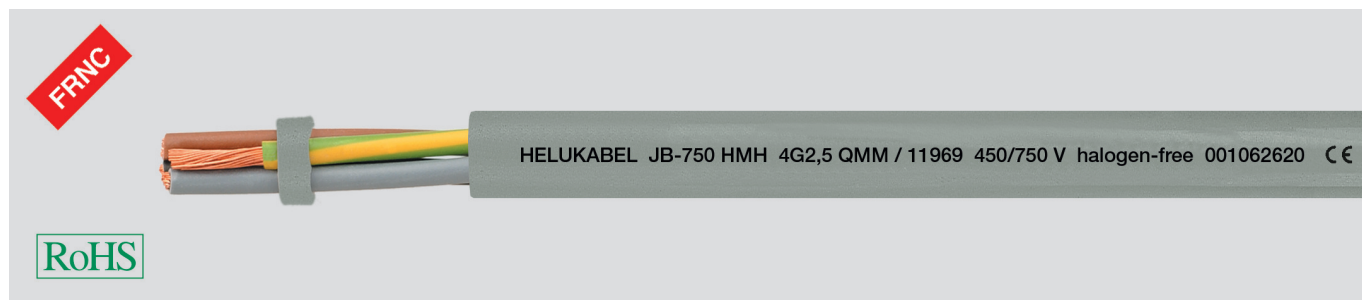


# JB-750 HMH flexible control cable, coloured core, halogen-free, extremely fire resistant, oil resistant<sup>1)</sup>, meter marking



## 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 installation -40°C to +70°C
- **Nominal voltage** U<sub>0</sub>/U 450/750 V
- **Test voltage** 3000 V
- **Minimum bending radius**  
flexing 12,5x cable Ø  
fixed installation 4x 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 0293-308
- GN-YE conductor
- 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 grey (RAL 7001)
- with meter marking
- **LSOH**= Low Smoke Zero Halogen

## Properties

- <sup>1)</sup> We recommend you for critical applications a consultation
  - The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- ### Tests
- Flame test acc. to  
DIN VDE 0482-332-3, BS 4066 part 3,  
DIN EN 60332-3, IEC 60332-3 (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 (equivalent  
DIN VDE 0472 part 804 test method B)
  - Corrosiveness of combustion gases acc. to  
DIN VDE 0482 part 267,  
DIN EN 50267-2-2, IEC 60754-2 (equivalent  
DIN VDE 0472 part 813)
  - Halogen-free acc. to DIN VDE 0482 part 267 /  
DIN EN 50267-2-1 / IEC 60754-1 (equivalent  
DIN VDE 0472 part 815)
  - 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 (previously DIN VDE 0472 part 816)

## Note

- G = with green-yellow conductor  
x = without green-yellow conductor (OZ)
- Please note the cleanroom qualification when ordering.
- AWG sizes are approximate equivalent values.  
The actual cross-section is in mm<sup>2</sup>.
- screened analogue type:  
**JB-750 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 air-conditioning and steel production works. For fixed installation or flexible application, directed without forcing by casual, not 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 and also for laying on plaster.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

| 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. |
|----------|--|-----------------|---------------------|---------------------|---------|
| 11965    | 3 G 1,5                                | 7,8             | 43,0                | 110,0               | 16      |
| 11966    | 4 G 1,5                                | 8,5             | 58,0                | 140,0               | 16      |
| 11967    | 5 G 1,5                                | 9,6             | 72,0                | 181,0               | 16      |
| 11968    | 3 G 2,5                                | 9,3             | 72,0                | 181,0               | 14      |
| 11969    | 4 G 2,5                                | 10,2            | 96,0                | 223,0               | 14      |
| 11970    | 5 G 2,5                                | 11,4            | 120,0               | 269,0               | 14      |
| 11971    | 3 G 4                                  | 11,3            | 115,0               | 238,0               | 12      |
| 11972    | 4 G 4                                  | 12,5            | 154,0               | 292,0               | 12      |
| 11973    | 5 G 4                                  | 13,9            | 192,0               | 357,0               | 12      |
| 11974    | 4 G 6                                  | 14,2            | 230,0               | 392,0               | 10      |
| 11975    | 5 G 6                                  | 15,8            | 288,0               | 501,0               | 10      |

| 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. |
|----------|--|-----------------|---------------------|---------------------|---------|
| 11976    | 4 G 10                                 | 18,1            | 384,0               | 750,0               | 8       |
| 11977    | 5 G 10                                 | 20,1            | 480,0               | 916,0               | 8       |
| 11978    | 4 G 16                                 | 22,0            | 614,0               | 1037,0              | 6       |
| 11979    | 5 G 16                                 | 24,4            | 768,0               | 1280,0              | 6       |
| 11980    | 4 G 25                                 | 27,1            | 960,0               | 1504,0              | 4       |
| 11981    | 5 G 25                                 | 30,1            | 1200,0              | 1883,0              | 4       |
| 11982    | 4 G 35                                 | 29,9            | 1344,0              | 2057,0              | 2       |
| 11983    | 5 G 35                                 | 33,4            | 1680,0              | 2575,0              | 2       |
| 11984    | 4 G 50                                 | 35,5            | 1920,0              | 2808,0              | 1       |
| 11985    | 4 G 70                                 | 40,2            | 2688,0              | 3964,0              | 2/0     |
| 11986    | 4 G 95                                 | 46,0            | 3648,0              | 4951,0              | 3/0     |
| 11987    | 4 G 120                                | 51,3            | 4608,0              | 6387,0              | 4/0     |

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