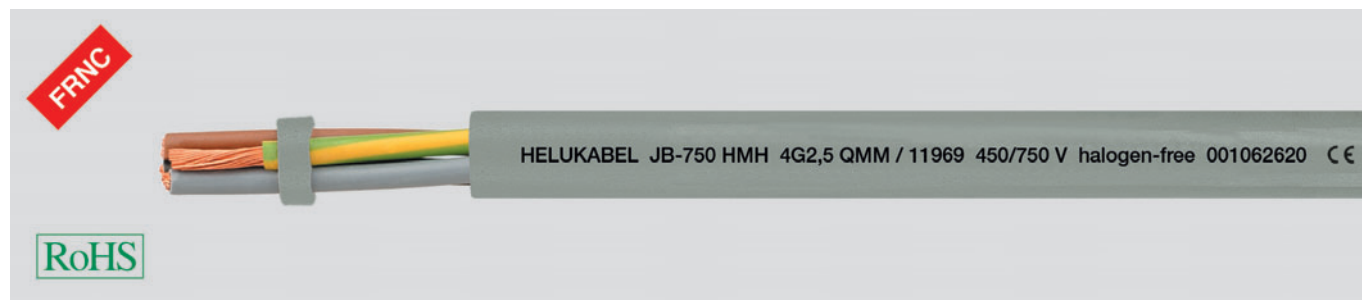


JB-750 HMM flexible control cable, coloured core, halogen-free, extremely fire resistant, oil resistant¹⁾, meter marking



A



Technical data

- Halogen-free flexible control cable, adapted to DIN VDE 0281 part 14 and DIN VDE 0281 part 13
- **Temperature range**
flexing -15 °C to +70 °C
fixed installation -40 °C to +70 °C
- **Nominal voltage** U_0/U 450/750 V
- **Test voltage** 3000 V
- **Minimum bending radius**
flexing approx. 12,5x cable \varnothing
fixed installation approx. 4x cable \varnothing
- **Radiation resistance**
up to 100×10^6 cJ/kg (up to 100 Mrad)

Cable structure

- Bare copper, fine wire conductors, to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Core insulation of halogen-free compound TI6, to E DIN VDE 0281 part 14
- Colour coded to DIN VDE 0293-308
- Green-yellow earth core in the outer layer
- Cores stranded in layer with optimal lay-length
- Halogen-free sheath compound TM7, to E DIN VDE 0281 part 14
- Outer jacket colour grey (RAL 7001)
- with meter marking, change-over in 2011
- **LSOH** = Low Smoke Zero Halogen-free.

Properties

- ¹⁾ For the critical applications we advise for 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 to VDE 0482-332-3 BS 4066 part 3/ DIN EN 60332-3/IEC 60332-3 (equivalent DIN VDE 0472 part 804 test method C)
- self-extinguishing and flame retardant according to 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 according to VDE 0482 part 267/ DIN EN 50267-2-2/ IEC 60754-2 (equivalent DIN VDE 0472 part 813)
- Halogen-free according to VDE 0482 part 267/ DIN EN 50267-2-1/ IEC 60754-1 (equivalent DIN VDE 0472 part 815)
- Smoke density according to VDE 0482 part 1034-1+2 / IEC 61034-1+2 / DIN EN 61034-1+2 / BS 7622 part 1+2 (equivalent DIN VDE 0472 part 816)

Note

- G = with green-yellow earth core;
x = without green-yellow earth core (OZ).
- Please note the cleanroom qualification when ordering.
- **screened analogue type:**
JB-750 HMM-C, see page A 77

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, in and under plaster as well as in concrete and masonry excluding in direct laying in shaken or stamped concrete, not suitable for imbedding in solidified or compressed concrete.

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

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
11965	3 G 1,5	6,8	43,0	110,0	16
11966	4 G 1,5	7,4	58,0	140,0	16
11967	5 G 1,5	8,3	72,0	181,0	16
11968	3 G 2,5	8,3	72,0	181,0	14
11969	4 G 2,5	9,2	96,0	223,0	14
11970	5 G 2,5	10,1	120,0	269,0	14
11971	3 G 4	9,8	115,0	238,0	12
11972	4 G 4	11,0	154,0	292,0	12
11973	5 G 4	12,3	192,0	357,0	12
11974	4 G 6	13,0	230,0	392,0	10
11975	5 G 6	14,5	288,0	501,0	10

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
11976	4 G 10	16,4	384,0	750,0	8
11977	5 G 10	18,3	480,0	916,0	8
11978	4 G 16	20,0	614,0	1037,0	6
11979	5 G 16	22,6	768,0	1280,0	6
11980	4 G 25	24,9	960,0	1504,0	4
11981	5 G 25	27,7	1200,0	1883,0	4
11982	4 G 35	28,4	1344,0	2057,0	2
11983	5 G 35	31,7	1680,0	2575,0	2
11984	4 G 50	34,2	1920,0	2808,0	1
11985	4 G 70	40,3	2688,0	3964,0	2/0
11986	4 G 95	45,8	3648,0	4951,0	3/0
11987	4 G 120	51,4	4608,0	6387,0	4/0

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