

JB-750 HMH-C

highly flame-retardant, EMC-preferred type



HELUKABEL® JB-750 HMH-C 4G1,5 QMM / 11943 450/750 V halogen-free CE

TECHNICAL DATA

Control and connection cable in alignment with DIN VDE 0285-525-2-51 / DIN EN 50525-2-51, DIN VDE 0285-525-3-11 / DIN EN 50525-3-11

Temperature range	flexible -15°C to +70°C fixed -40°C to +70°C
Nominal voltage	AC U ₀ /U 450/750 V
Test voltage core/core	4000 V
Test voltage core/screen	2000 V
Coupling resistance	at 30 MHz, approx. 250 Ohm/km
Minimum bending radius	flexible 12.5x Outer-Ø fixed 4x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: halogen-free polymer acc. to DIN VDE 0207-363-7 / DIN EN 50363-7 (compound type TI6)
- Core identification acc. to DIN VDE 0293-308, colour coded
- G = with protective conductor GN-YE
- Cores stranded with optimal lay lengths
- Foil wrapping
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Outer sheath: halogen-free polymer acc. to DIN VDE 0207-363-8 / DIN EN 50363-8 (compound type TM7)
- Sheath colour: grey (RAL 7001)
- Length marking: in metres

PROPERTIES

- largely resistant to: oil
- halogen-free
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- corrosiveness of combustion gases acc. to DIN VDE 0482-754-2 / DIN EN 60754-2 / IEC 60754-2
- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- bundle fire test acc. to DIN VDE 0482-332-3-24 / DIN EN 60332-3-24 / IEC 60332-3-24
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2

APPLICATION

Control and connection cable for use on machine tools, conveyor belts, production lines, in plant engineering, in air conditioning technology, in metallurgical plants and steel rolling mills. For fixed installation or flexible applications involving medium mechanical stress and occasional, non-recurring free movement without forced movement guidance and without tensile stress. Suitable for use in dry, damp and wet rooms and on plaster. EMC = Electromagnetic Compatibility; in order to optimise EMC properties, we recommend a double-sided and all-round large contact area of the copper braiding.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
11942	3 G 1.5	16	8.4	80.0	125.0
11943	4 G 1.5	16	9.4	97.0	160.0
11944	5 G 1.5	16	10.4	119.0	193.0
11945	3 G 2.5	14	9.9	144.0	198.0
11946	4 G 2.5	14	11.0	148.0	240.0
11947	5 G 2.5	14	12.2	181.0	280.0
11948	3 G 4	12	11.4	174.0	251.0
11949	4 G 4	12	12.7	230.0	315.0
11950	5 G 4	12	14.2	273.0	396.0
11951	4 G 6	10	14.8	305.0	430.0
11952	5 G 6	10	16.2	439.0	524.0
11953	4 G 10	8	18.5	535.0	804.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
11954	5 G 10	8	20.8	592.0	942.0
11955	4 G 16	6	21.6	740.0	1190.0
11956	5 G 16	6	23.9	895.0	1370.0
11957	4 G 25	4	27.4	1140.0	1968.0
11958	5 G 25	4	30.3	1380.0	2514.0
11959	4 G 35	2	30.2	1576.0	2540.0
11960	5 G 35	2	33.6	1930.0	3260.0
11961	4 G 50	1	35.6	2155.0	3668.0
11962	4 G 70	2/0	40.3	3120.0	5076.0
11963	4 G 95	3/0	46.0	4043.0	6807.0
11964	4 G 120	4/0	50.4	5069.0	8612.0