

JZ-600 HMH-C flexible control cable, halogen-free, extremely fire resistant, oil resistant ¹⁾, 0,6/1kV, screened, EMC-preferred type, meter marking



Technical data

- Halogen-free, flexible control cable, core construction adapted to E DIN VDE 0281 Part 14 and DIN VDE 0281 Part 13
- **Temperature range**
flexing -5°C to +70°C
fixed -40°C to +70°C
- **Nominal voltage** U_0/U 0,6/1 kV
- **Test voltage** 4000 V
- **Minimum bending radius**
for permanent bending
approx. 15x cable \emptyset
- **Coupling resistance**
max. 250 Ohm/km
- **Radiation resistance**
up to 100×10^6 cJ/kg (up to 100 Mrad)

Cable structure

- Bare copper, fine wire conductor to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and/or IEC 60228 cl. 5
- Halogen-free polymer core insulation, Tl6 acc. to E DIN VDE 0281 Part 14
- Black cores with continuous white numbering according to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- Inner sheath
- Tinned copper braided screening, coverage approx. 85%
- Free-free polymer sheath, TM7 acc. to E DIN VDE 0281 Part 14
- Sheath colour black (RAL 9005)
- with meter marking, change-over in 2009
- **LSOH** = Low Smoke Zero Halogen-free.
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Properties

- ¹⁾ For critical applications recommend you request a consultation

Tests

- Flame test acc. to VDE 0482 Part 266-2, BS 4066 Part 3/ DIN EN 50266-2/ IEC 60332-3 (as per DIN VDE 0472 Part 804 Test Method C)
- Self-extinguishing and flame-resistant acc. to DIN VDE 0482 Part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (as per DIN VDE 0472 Part 804 Test Method B)
- Corrosiveness of corrosive gases acc. to VDE 0482, Part 267/ DIN EN 50267-2-2/ IEC 607542 (as per DIN VDE 0472, Part 813)
- Halogen-free acc. to VDE 0482, Part 267/ DIN EN 50267-2-1/ IEC 60754-1 (as per 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

- **unscreened analogue type:**
JZ-600 HMH, see page A 66

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 and outdoors (fixed installation) and for laying on, in and under plaster as well as in concrete and masonry excluding in direct laying in vibration, compacted or compressed concrete. The dense screening assures interference-free transmission of all signals and impulses.

EMC = Electromagnetic compatibility

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

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

Part No.	No. cores x cross-sec. mm ²	Outer \emptyset app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.	Part No.	No. cores x cross-sec. mm ²	Outer \emptyset app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
12850	3 G 0,5	8,6	45,0	150,0	20	12871	3 G 1,5	10,9	82,0	187,0	16
12851	4 G 0,5	9,4	54,0	170,0	20	12872	4 G 1,5	12,2	99,0	240,0	16
12852	5 G 0,5	10,1	66,0	199,0	20	12873	5 G 1,5	13,3	123,0	289,0	16
12853	7 G 0,5	12,1	79,0	235,0	20	12874	7 G 1,5	16,0	148,0	383,0	16
12854	12 G 0,5	14,7	137,0	320,0	20	12875	12 G 1,5	19,6	274,0	592,0	16
12855	18 G 0,5	17,3	156,0	428,0	20	12876	18 G 1,5	23,4	386,0	806,0	16
12856	25 G 0,5	20,6	250,0	503,0	20	12877	25 G 1,5	28,2	531,0	1241,0	16
12857	3 G 0,75	9,0	57,0	155,0	18	12878	3 G 2,5	12,2	148,0	298,0	14
12858	4 G 0,75	9,9	63,0	190,0	18	12879	4 G 2,5	13,4	169,0	345,0	14
12859	5 G 0,75	10,8	76,0	228,0	18	12880	5 G 2,5	14,9	220,0	427,0	14
12860	7 G 0,75	13,0	100,0	323,0	18	12881	7 G 2,5	17,9	284,0	561,0	14
12861	12 G 0,75	15,8	175,0	410,0	18	12882	12 G 2,5	21,9	470,0	857,0	14
12862	18 G 0,75	17,9	240,0	560,0	18	12883	18 G 2,5	26,1	572,0	1355,0	14
12863	25 G 0,75	22,8	306,0	730,0	18	12884	25 G 2,5	31,9	740,0	1995,0	14
12864	3 G 1	9,8	64,0	163,0	17	12885	3 G 4	15,1	178,0	391,0	12
12865	4 G 1	10,8	76,0	200,0	17	12886	4 G 4	16,7	234,0	527,0	12
12866	5 G 1	12,1	89,0	239,0	17	12887	5 G 4	18,6	284,0	700,0	12
12867	7 G 1	14,5	114,0	289,0	17	12888	3 G 6	17,0	245,0	629,0	10
12868	12 G 1	17,4	186,0	464,0	17	12889	4 G 6	18,7	316,0	731,0	10
12869	18 G 1	20,7	284,0	628,0	17	12890	5 G 6	20,7	442,0	1105,0	10
12870	25 G 1	24,8	387,0	855,0	17						

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

Continuation ►

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Part No.	No. cores x cross-sec. mm ²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
12891	3 G 10	19,6	367,0	1125,0	8
12892	4 G 10	21,9	549,0	1345,0	8
12893	5 G 10	24,1	604,0	1635,0	8
12894	4 G 16	23,5	807,0	1395,0	6
12895	5 G 16	26,4	940,0	1870,0	6
12896	7 G 16	28,8	1345,0	2720,0	6
12897	3 G 25	28,0	920,0	2465,0	4
12898	4 G 25	32,5	1169,0	2750,0	4
12899	5 G 25	35,7	1420,0	3490,0	4

Part No.	No. cores x cross-sec. mm ²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
12900	3 G 35	32,7	1250,0	3230,0	2
12901	4 G 35	35,7	1680,0	4100,0	2
12902	5 G 35	40,0	2020,0	4950,0	2
12903	4 G 50	41,1	2370,0	5780,0	1
12904	4 G 70	48,0	3257,0	7480,0	2/0
12905	4 G 95	51,2	4060,0	10220,0	3/0
12906	4 G 120	56,0	5231,0	13750,0	4/0
12907	4 G 150	64,5	6794,0	15900,0	4/0

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