

# JZ-600 HMH flexible control cable, halogen-free, extremely fire resistant, oil resistant<sup>1)</sup>, 0,6/1kV, meter marking



A



## 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 -15°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 Ø
- **Radiation resistance**  
up to 100x10<sup>6</sup> 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, TI6 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
- Halogen-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.

## Properties

- <sup>1)</sup> For critical applications recommend you request 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 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 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 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

- G = with green-yellow earth core;  
x = without green-yellow earth core (OZ).
- **screened analogue type:**  
**JZ-600 HMH-C**, see page A 75

## 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.

**EMC** = Electromagnetic compatibility

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

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.	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	6,4	9,6	57,0	20	12735	2 x 0,75	6,8	14,4	68,0	18
12724	3 G 0,5	6,8	14,4	69,0	20	12736	3 G 0,75	7,2	21,6	77,0	18
12725	3 x 0,5	6,8	14,4	69,0	20	12737	3 x 0,75	7,2	21,6	77,0	18
12726	4 G 0,5	7,6	19,0	104,0	20	12738	4 G 0,75	8,0	29,0	136,0	18
12727	4 x 0,5	7,6	19,0	104,0	20	12739	4 x 0,75	8,0	29,0	136,0	18
12728	5 G 0,5	8,2	24,0	121,0	20	12740	5 G 0,75	8,8	36,0	152,0	18
12729	5 x 0,5	8,2	24,0	121,0	20	12741	5 x 0,75	8,8	36,0	152,0	18
12730	7 G 0,5	9,8	33,6	145,0	20	12742	7 G 0,75	10,7	50,0	208,0	18
12731	10 G 0,5	11,6	48,0	186,0	20	12743	10 G 0,75	12,7	72,0	250,0	18
12732	12 G 0,5	12,2	58,0	224,0	20	12744	12 G 0,75	13,1	86,0	271,0	18
12733	18 G 0,5	14,4	86,0	292,0	20	12745	18 G 0,75	15,6	130,0	387,0	18
12734	25 G 0,5	17,2	120,0	357,0	20	12746	25 G 0,75	18,9	180,0	498,0	18

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

Continuation ▶

# JZ-600 HMH flexible control cable, halogen-free, extremely fire resistant, oil resistant<sup>1)</sup>, 0,6/1kV, meter marking



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	7,4	19,2	82,0	17
12748	3 G 1	8,0	29,0	99,0	17
12749	3 x 1	8,0	29,0	99,0	17
12750	4 G 1	8,8	38,4	140,0	17
12751	4 x 1	8,8	38,4	140,0	17
12752	5 G 1	9,8	48,0	160,0	17
12753	5 x 1	9,8	48,0	160,0	17
12754	7 G 1	11,7	67,0	217,0	17
12755	10 G 1	14,1	96,0	271,0	17
12756	12 G 1	14,5	115,0	301,0	17
12757	18 G 1	17,3	173,0	417,0	17
12758	25 G 1	21,1	240,0	576,0	17
12759	2 x 1,5	8,4	29,0	97,0	16
12760	3 G 1,5	9,1	43,0	119,0	16
12761	3 x 1,5	9,1	43,0	119,0	16
12762	4 G 1,5	9,9	58,0	148,0	16
12763	4 x 1,5	9,9	58,0	148,0	16
12764	5 G 1,5	11,0	72,0	172,0	16
12765	5 x 1,5	11,0	72,0	172,0	16
12766	7 G 1,5	13,3	101,0	243,0	16
12767	10 G 1,5	15,9	144,0	311,0	16
12768	12 G 1,5	16,6	173,0	392,0	16
12769	18 G 1,5	19,7	259,0	529,0	16
12770	25 G 1,5	23,9	360,0	741,0	16
12771	2 x 2,5	9,4	48,0	160,0	14
12772	3 G 2,5	9,9	72,0	177,0	14
12773	3 x 2,5	9,9	72,0	177,0	14
12774	4 G 2,5	11,1	96,0	209,0	14
12775	4 x 2,5	11,1	96,0	209,0	14
12776	5 G 2,5	12,4	120,0	272,0	14
12777	5 x 2,5	12,4	120,0	272,0	14
12778	7 G 2,5	15,0	168,0	340,0	14
12779	10 G 2,5	18,4	288,0	561,0	14
12780	12 G 2,5	22,0	432,0	799,0	14
12781	18 G 2,5	24,6	480,0	940,0	14
12782	25 G 2,5	26,9	600,0	1121,0	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.
12783	3 G 4	12,3	115,0	255,0	12
12784	4 G 4	13,8	154,0	319,0	12
12785	5 G 4	15,3	192,0	423,0	12
12786	3 G 6	14,1	173,0	380,0	10
12787	4 G 6	15,6	230,0	441,0	10
12788	5 G 6	17,3	288,0	657,0	10
12789	3 G 10	16,5	288,0	668,0	8
12790	4 G 10	18,4	384,0	796,0	8
12791	5 G 10	20,5	480,0	972,0	8
12792	3 G 16	19,1	461,0	832,0	6
12793	4 G 16	21,2	614,0	1122,0	6
12794	5 G 16	23,6	768,0	1604,0	6
12795	3 G 25	24,0	720,0	1457,0	4
12796	4 G 25	26,9	960,0	1611,0	4
12797	5 G 25	29,3	1200,0	2070,0	4
12798	3 G 35	26,2	1008,0	1914,0	2
12799	4 G 35	29,4	1344,0	2424,0	2
12800	5 G 35	32,8	1680,0	2970,0	2
12801	4 G 50	34,2	1920,0	3467,0	1
12802	4 G 70	41,0	2688,0	4491,0	2/0
12803	4 G 95	46,2	3648,0	6170,0	3/0
12804	4 G 120	50,3	4608,0	7618,0	4/0

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

## Our Service on the Internet

The screenshot shows the Helukabel website interface. At the top right is the Helukabel logo. Below it is a navigation menu with links: Download centre, Logistic centre, Company, Products, Quality, News, Contact, Service, Opinion, Imprint. There are also flags for Germany, France, and the UK. A search bar is located on the right. On the left, there is a 'You are here' breadcrumb trail: Home > News > Fairs. Below this, there are two main sections: 'News' with links for Fairs, Job posting, Special offer's, and Press Contact; and 'Fairs' with a dropdown menu containing News, Fairs, Job posting, Special offer's, and Press Contact. The 'Fairs' section features three images of trade fair booths. On the right, there is a 'HELUKABEL world-wide' section with a world map and a 'please select...' dropdown menu.

## Trade fair appointments

In the Internet, you will find the trade fairs we are participating in, both in Germany and abroad. Please visit our Website and arrange an appointment with us. We are looking forward to your visit.

[www.helukabel.de](http://www.helukabel.de)