

JZ-600 HMH / OZ-600 HMH

highly flame-retardant, 0.6/1 kV



HELUKABEL® JZ-600 HMH 25G1,5 QMM / 12770 0,6/1 kV 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 -25°C to +70°C fixed -40°C to +70°C
Nominal voltage	AC U ₀ /U 600/1000 V
Test voltage core/core	4000 V
Minimum bending radius	flexible 15x Outer-Ø fixed 7.5x 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 0293-334, black cores with consecutive labeling in white digits
- Protective conductor: starting with 3 cores, G = with protective conductor GN-YE, in the outer layer (JZ), x = without protective conductor (OZ)
- Cores stranded in layers with optimal lay lengths
- Outer sheath: halogen-free polymer acc. to DIN VDE 0207-363-8 / DIN EN 50363-8 (compound type TM7)
- Sheath colour: black (RAL 9005)
- Length marking: in metres

PROPERTIES

- resistant to: UV radiation, weathering effects
- largely resistant to: oil

- for outdoor use
- 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
- UV-resistant acc. to DIN EN ISO 4892-2
- weather-resistant acc. to DIN EN ISO 4892-2

APPLICATION

Control and connection cable in tool machinery, conveyor belts, production lines, plant construction, in air-conditioning devices, in metallurgical, steel and rolling mills. For fixed installation and flexible applications with occasional, not constantly recurring free movement without forced motion, without tensile stress and for medium mechanical stress. The cable is suitable for use in dry, damp and wet locations, outdoors (fixed installation) and on plaster.

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-weight kg/km	Weight kg/km, approx.
12723	2 x 0.5	20	6.2	9.6	57.0
12724	3 G 0.5	20	6.5	14.4	69.0
12725	3 x 0.5	20	6.5	14.4	69.0
12726	4 G 0.5	20	7.1	19.0	104.0
12727	4 x 0.5	20	7.1	19.0	104.0
12728	5 G 0.5	20	7.9	24.0	121.0
12729	5 x 0.5	20	7.9	24.0	121.0
12730	7 G 0.5	20	8.5	33.6	145.0
12731	10 G 0.5	20	11.0	48.0	186.0
12732	12 G 0.5	20	11.3	58.0	224.0
12733	18 G 0.5	20	13.5	86.0	292.0
12734	25 G 0.5	20	15.8	120.0	357.0
12735	2 x 0.75	19	6.7	14.4	68.0
12736	3 G 0.75	19	7.1	21.6	77.0
12737	3 x 0.75	19	7.1	21.6	77.0
12738	4 G 0.75	19	7.7	29.0	136.0
12739	4 x 0.75	19	7.7	29.0	136.0
12740	5 G 0.75	19	8.5	36.0	152.0
12741	5 x 0.75	19	8.5	36.0	152.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
12742	7 G 0.75	19	9.5	50.0	208.0
12743	10 G 0.75	19	12.2	72.0	250.0
12744	12 G 0.75	19	12.6	86.0	271.0
12745	18 G 0.75	19	14.8	130.0	387.0
12746	25 G 0.75	19	17.5	180.0	498.0
12747	2 x 1	18	7.0	19.2	82.0
12748	3 G 1	18	7.4	29.0	99.0
12749	3 x 1	18	7.4	29.0	99.0
12750	4 G 1	18	8.3	38.4	140.0
12751	4 x 1	18	8.3	38.4	140.0
12752	5 G 1	18	9.2	48.0	160.0
12753	5 x 1	18	9.2	48.0	160.0
12754	7 G 1	18	9.9	67.0	217.0
12755	10 G 1	18	12.8	96.0	271.0
12756	12 G 1	18	13.2	115.0	301.0
12757	18 G 1	18	15.7	173.0	417.0
12758	25 G 1	18	18.6	240.0	576.0
12759	2 x 1.5	16	8.2	29.0	97.0
12760	3 G 1.5	16	8.7	43.0	119.0

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Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
12761	3 x 1.5	16	8.7	43.0	119.0
12762	4 G 1.5	16	9.7	58.0	148.0
12763	4 x 1.5	16	9.7	58.0	148.0
12764	5 G 1.5	16	10.7	72.0	172.0
12765	5 x 1.5	16	10.7	72.0	172.0
12766	7 G 1.5	16	11.6	101.0	243.0
12767	10 G 1.5	16	15.2	144.0	311.0
12768	12 G 1.5	16	15.7	173.0	392.0
12769	18 G 1.5	16	18.6	259.0	529.0
12770	25 G 1.5	16	22.2	360.0	741.0
11007186	34 G 1.5	16	25.6	490.0	1126.0
11007187	37 G 1.5	16	25.6	533.0	1157.0
12771	2 x 2.5	14	9.6	48.0	160.0
12772	3 G 2.5	14	10.2	72.0	177.0
12773	3 x 2.5	14	10.2	72.0	177.0
12774	4 G 2.5	14	11.3	96.0	209.0
12775	4 x 2.5	14	11.3	96.0	209.0
12776	5 G 2.5	14	12.5	120.0	272.0
12777	5 x 2.5	14	12.5	120.0	272.0
12778	7 G 2.5	14	13.8	168.0	340.0
12779	10 G 2.5	14	17.8	240.0	561.0
12780	12 G 2.5	14	18.6	288.0	799.0
12781	18 G 2.5	14	22.0	432.0	940.0
12782	25 G 2.5	14	26.2	600.0	1121.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
12783	3 G 4	12	11.7	115.0	255.0
12784	4 G 4	12	13.0	154.0	319.0
12785	5 G 4	12	14.3	192.0	423.0
12786	3 G 6	10	13.2	173.0	380.0
12787	4 G 6	10	14.6	230.0	441.0
12788	5 G 6	10	16.2	288.0	657.0
12789	3 G 10	8	16.8	288.0	668.0
12790	4 G 10	8	18.6	384.0	796.0
12791	5 G 10	8	20.5	480.0	972.0
12792	3 G 16	6	20.2	461.0	832.0
12793	4 G 16	6	22.6	614.0	1122.0
12794	5 G 16	6	25.0	768.0	1604.0
12795	3 G 25	4	24.8	720.0	1457.0
12796	4 G 25	4	27.6	960.0	1611.0
12797	5 G 25	4	30.5	1200.0	2070.0
12798	3 G 35	2	27.4	1008.0	1914.0
12799	4 G 35	2	30.4	1344.0	2424.0
12800	5 G 35	2	33.6	1680.0	2970.0
12801	4 G 50	1	35.8	1920.0	3467.0
11018081	5 G 50	1	39.9	2400.0	3550.0
12802	4 G 70	2/0	40.7	2688.0	4491.0
12803	4 G 95	3/0	46.6	3648.0	6170.0
12804	4 G 120	4/0	51.4	4608.0	7618.0