

JZ-600 HMH-C

highly flame-retardant, 0.6/1 kV, EMC-preferred type



HELUKABEL® JZ-600 HMH-C 4G4 QMM / 12886 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
Coupling resistance	at 30 MHz, approx. 250 Ohm/km
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
- G = with protective conductor GN-YE, in the outer layer (JZ)
- Cores stranded in layers with optimal lay lengths
- Inner sheath: halogen-free polymer
- 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: 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
- certifications and approvals: EAC

■ 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. EMC= Electromagnetic Compatibility; in order to optimise EMC properties, we recommend a double-sided and allround 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.
12850	3 G 0.5	20	8.7	45.0	150.0
12851	4 G 0.5	20	9.4	54.0	170.0
12852	5 G 0.5	20	10.0	66.0	199.0
12853	7 G 0.5	20	10.8	79.0	235.0
12854	12 G 0.5	20	14.1	137.0	320.0
12855	18 G 0.5	20	16.0	156.0	428.0
12856	25 G 0.5	20	18.7	250.0	503.0
12857	3 G 0.75	19	9.4	57.0	155.0
12858	4 G 0.75	19	10.0	63.0	190.0
12859	5 G 0.75	19	10.9	76.0	228.0
12860	7 G 0.75	19	11.6	100.0	323.0
12861	12 G 0.75	19	15.3	175.0	410.0
12862	18 G 0.75	19	17.5	240.0	560.0
12863	25 G 0.75	19	20.6	306.0	730.0
12864	3 G 1	18	9.7	64.0	163.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
12865	4 G 1	18	10.6	76.0	200.0
12866	5 G 1	18	11.3	89.0	239.0
12867	7 G 1	18	12.4	114.0	289.0
12868	12 G 1	18	15.9	186.0	464.0
12869	18 G 1	18	18.4	284.0	628.0
12870	25 G 1	18	21.7	387.0	855.0
12871	3 G 1.5	16	11.0	82.0	187.0
12872	4 G 1.5	16	11.8	99.0	240.0
12873	5 G 1.5	16	13.0	123.0	289.0
12874	7 G 1.5	16	14.3	148.0	383.0
12875	12 G 1.5	16	18.6	274.0	592.0
12876	18 G 1.5	16	21.7	386.0	806.0
12877	25 G 1.5	16	25.3	531.0	1241.0
11007188	30 G 1.5	16	26.8	561.0	1174.0
11007189	36 G 1.5	16	29.3	659.0	1383.0

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12878	3 G 2.5	14	12.7	148.0	298.0	12893	5 G 10	8	23.9	604.0	1635.0
12879	4 G 2.5	14	14.0	169.0	345.0	12894	4 G 16	6	26.5	807.0	1395.0
12880	5 G 2.5	14	15.2	220.0	427.0	12895	5 G 16	6	29.4	940.0	1870.0
12881	7 G 2.5	14	16.5	284.0	561.0	12896	7 G 16	6	32.1	1345.0	2720.0
12882	12 G 2.5	14	21.7	470.0	857.0	12897	3 G 25	4	29.2	920.0	2465.0
12883	18 G 2.5	14	25.5	572.0	1355.0	12898	4 G 25	4	32.3	1169.0	2750.0
12884	25 G 2.5	14	29.9	740.0	1995.0	12899	5 G 25	4	35.4	1420.0	3490.0
12885	3 G 4	12	14.4	178.0	391.0	12900	3 G 35	2	31.9	1250.0	3230.0
12886	4 G 4	12	15.7	234.0	527.0	12901	4 G 35	2	35.3	1680.0	4100.0
12887	5 G 4	12	17.1	284.0	700.0	12902	5 G 35	2	38.7	2020.0	4950.0
12888	3 G 6	10	16.1	245.0	629.0	12903	4 G 50	1	41.1	2370.0	5780.0
12889	4 G 6	10	17.5	316.0	731.0	12904	4 G 70	2/0	46.0	3257.0	7480.0
12890	5 G 6	10	19.1	442.0	1105.0	12905	4 G 95	3/0	51.7	4060.0	10220.0
12891	3 G 10	8	19.9	367.0	1125.0	12906	4 G 120	4/0	56.3	5231.0	13750.0
12892	4 G 10	8	21.7	549.0	1345.0	12907	4 G 150	300 kcmil	62.2	6794.0	15900.0