

HELUCONTROL® JZ-510-HMH UL/CSA

halogen-free, highly flame-retardant



HELUCONTROL® JZ-510-HMH 25G1,5 QMM / 11029848
E170315 AWM Style 21217 AWM I/II A/B 75°C 600V CE

TECHNICAL DATA

Control and connection cable acc. to UL-Std. 758 (AWM) Style 10615, UL-Std. 758 (AWM) Style 21217, CSA-Std. C22.2 No. 210 - AWM I/II A/B

Temperature range	flexible -25°C to +75°C fixed -40°C to +80°C
Nominal voltage	AC U ₀ /U 300/500 V UL (AWM) AC 600 V
Test voltage	4000 V
Minimum bending radius	flexible 12.5x Outer-Ø fixed 4x Outer-Ø

CABLE STRUCTURE

- Copper wire tinned, 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 T16)
- 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, ozone

- 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
- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404
- UV-resistant acc. to DIN EN ISO 4892-2

APPLICATION

UL/CSA approved, halogen-free flexible control cable (up to 600 V) for machine, tool and plant construction. Suitable for medium mechanical stress with free movement, without tensile stress and without forced motion control in dry, damp and wet rooms, however, not suitable for outdoor use.

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.
11029804	2 x 0.5	20	4.8	9.6	34.0
11029805	3 G 0.5	20	5.1	14.4	41.0
11029806	4 G 0.5	20	5.5	19.2	50.0
11029807	5 G 0.5	20	6.3	24.0	63.0
11029808	7 G 0.5	20	6.8	33.6	78.0
11029809	12 G 0.5	20	9.1	57.6	139.0
11029810	18 G 0.5	20	10.8	86.4	199.0
11029811	25 G 0.5	20	12.5	120.0	269.0
11029812	34 G 0.5	20	14.9	163.2	377.0
11029813	2 x 0.75	19	5.2	14.4	42.0
11029814	3 G 0.75	19	5.5	21.6	51.0
11029815	4 G 0.75	19	6.2	28.8	66.0
11029816	5 G 0.75	19	6.8	36.0	80.0
11029817	6 G 0.75	19	7.6	43.2	94.0
11029818	7 G 0.75	19	7.6	50.4	104.0
11029819	8 G 0.75	19	9.0	57.6	136.0
11029820	12 G 0.75	19	9.9	86.4	177.0
11029821	18 G 0.75	19	12.0	129.6	261.0
11029822	25 G 0.75	19	13.9	180.0	354.0
11029823	34 G 0.75	19	16.5	244.8	493.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
11029824	37 G 0.75	19	16.5	266.4	509.0
11029825	2 x 1	18	5.5	19.2	50.0
11029826	3 G 1	18	6.1	28.8	64.0
11029827	4 G 1	18	6.6	38.4	78.0
11029828	5 G 1	18	7.2	48.0	95.0
11029829	6 G 1	18	8.0	57.6	117.0
11029830	7 G 1	18	8.0	67.2	124.0
11029831	8 G 1	18	9.5	76.8	161.0
11029832	10 G 1	18	10.4	96.0	194.0
11029833	12 G 1	18	10.7	115.2	209.0
11029834	16 G 1	18	12.0	153.6	277.0
11029835	18 G 1	18	12.7	172.8	313.0
11029836	25 G 1	18	14.9	240.0	433.0
11029837	34 G 1	18	17.7	326.4	601.0
11029838	37 G 1	18	17.7	355.2	622.0
11029839	2 x 1.5	16	6.3	28.8	67.0
11029840	3 G 1.5	16	6.7	43.2	83.0
11029841	4 G 1.5	16	7.5	57.6	107.0
11029842	5 G 1.5	16	8.2	72.0	131.0
11029843	6 G 1.5	16	9.1	86.4	160.0

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Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
11029844	7 G 1.5	16	9.1	100.8	170.0
11029845	8 G 1.5	16	10.8	115.2	219.0
11029846	12 G 1.5	16	12.1	172.8	297.0
11029847	18 G 1.5	16	14.4	259.2	428.0
11029848	25 G 1.5	16	16.8	360.0	590.0
11029849	34 G 1.5	16	20.0	489.6	817.0
11029850	37 G 1.5	16	20.0	532.8	848.0
11029851	2 x 2.5	14	7.7	48.0	104.0
11029852	3 G 2.5	14	8.2	72.0	130.0
11029853	4 G 2.5	14	9.1	96.0	166.0
11029854	5 G 2.5	14	10.0	120.0	204.0
11029855	7 G 2.5	14	11.1	168.0	265.0
11029856	12 G 2.5	14	15.0	288.0	470.0
11029857	18 G 2.5	14	17.9	432.0	687.0
11029858	25 G 2.5	14	20.9	600.0	943.0
11029859	34 G 2.5	14	24.9	816.0	1312.0
11029860	2 x 4	12	9.2	76.8	153.0
11029861	3 G 4	12	9.7	115.2	194.0
11029862	4 G 4	12	10.9	153.6	248.0
11029863	5 G 4	12	12.1	192.0	310.0
11029864	7 G 4	12	13.4	268.8	404.0
11029865	2 x 6	10	10.8	115.2	220.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
11029866	3 G 6	10	11.5	172.8	280.0
11029867	4 G 6	10	12.8	230.4	358.0
11029868	5 G 6	10	14.3	288.0	448.0
11029869	7 G 6	10	15.9	403.2	584.0
11029870	3 G 10	8	14.5	288.0	452.0
11029871	4 G 10	8	16.3	384.0	585.0
11029872	5 G 10	8	18.2	480.0	730.0
11029873	7 G 10	8	20.0	672.0	952.0
11029874	3 G 16	6	17.0	460.8	669.0
11029875	4 G 16	6	19.0	614.4	866.0
11029876	5 G 16	6	21.2	768.0	1079.0
11029877	7 G 16	6	23.6	1075.2	1424.0
11029878	4 G 25	4	23.7	960.0	1345.0
11029879	5 G 25	4	26.6	1200.0	1687.0
11029880	4 G 35	2	26.9	1344.0	1812.0
11029881	5 G 35	2	30.2	1680.0	2270.0
11029882	4 G 50	1	34.2	1920.0	2746.0
11029883	4 G 70	2/0	35.6	2688.0	2994.0
11029884	4 G 95	3/0	40.7	3648.0	4020.0
11029885	4 G 120	4/0	45.7	4608.0	5073.0
11029886	4 G 150	300 kcmil	50.9	5760.0	6328.0
11029887	4 G 185	350 kcmil	55.8	7104.0	7749.0