

HELUCONTROL® JB-510-HMH UV / HELUCONTROL® OB-510-HMH UV

highly flame-retardant



HELUKABEL® HELUCONTROL® JB-510-HMH UV CE

TECHNICAL DATA

Control and connection cable in alignment 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 300/500 V
Test voltage core/core	4000 V
Minimum bending radius	flexible 12,5x Outer-Ø fixed 4x 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 0293-308, colour coded
- Protective conductor: starting with 3 cores,
G = with protective conductor GN-YE, in the outer layer (JB),
x = without protective conductor (OB)
- 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
- CPR-class: Cca s1a d1 a1

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 factor per km	Weight kg/km, approx.
18126497	2 x 0.5	20	4.8	9.6	43.0
18126498	3 x 0.5	20	5.1	14.4	50.0
18126499	3 G 0.5	20	5.1	14.4	50.0
18126500	4 x 0.5	20	5.5	19.2	60.0
18126501	4 G 0.5	20	5.5	19.2	60.0
18126502	5 x 0.5	20	6.2	24.0	71.0
18126503	5 G 0.5	20	6.2	24.0	71.0
18126504	7 x 0.5	20	6.7	33.6	84.0
18126505	7 G 0.5	20	6.7	33.6	84.0
18126506	8 G 0.5	20	7.4	38.4	101.0
18126507	10 G 0.5	20	8.6	48.0	121.0
18126508	12 G 0.5	20	9.1	57.6	142.0
18126509	16 G 0.5	20	10.0	76.8	183.0
18126510	18 G 0.5	20	10.7	86.4	204.0
18126511	25 G 0.5	20	12.6	120.0	283.0
18126512	2 x 0.75	19	5.3	14.4	47.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
18126513	3 x 0.75	19	5.6	21.6	56.0
18126514	3 G 0.75	19	5.6	21.6	56.0
18126515	4 x 0.75	19	6.3	28.8	69.0
18126516	4 G 0.75	19	6.3	28.8	69.0
18126517	5 x 0.75	19	6.9	36.0	83.0
18126518	5 G 0.75	19	6.9	36.0	83.0
18126519	7 x 0.75	19	7.7	50.4	114.0
18126520	7 G 0.75	19	7.7	50.4	114.0
18126521	8 G 0.75	19	8.3	57.6	136.0
18126522	10 G 0.75	19	9.8	72.0	172.0
18126523	12 G 0.75	19	10.1	86.4	183.0
18126524	16 G 0.75	19	11.4	115.2	241.0
18126525	18 G 0.75	19	12.2	129.6	266.0
18126526	25 G 0.75	19	14.3	180.0	374.0
18126527	2 x 1	18	5.6	19.2	63.0
18126528	3 x 1	18	6.1	28.8	74.0

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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.
18126529	3 G 1	18	6.1	28.8	74.0
18126530	4 x 1	18	6.7	38.4	90.0
18126531	4 G 1	18	6.7	38.4	90.0
18126532	5 x 1	18	7.5	48.0	109.0
18126533	5 G 1	18	7.5	48.0	109.0
18126534	7 x 1	18	8.1	67.2	151.0
18126535	7 G 1	18	8.1	67.2	151.0
18126536	8 G 1	18	9.0	76.8	184.0
18126537	10 G 1	18	10.6	96.0	224.0
18126538	12 G 1	18	10.9	115.2	243.0
18126539	16 G 1	18	12.3	153.6	314.0
18126540	18 G 1	18	12.9	172.8	361.0
18126541	25 G 1	18	15.4	240.0	496.0
18126542	2 x 1.5	16	6.4	28.8	70.0
18126543	3 G 1.5	16	6.8	43.0	94.0
18126544	4 G 1.5	16	7.6	57.6	112.0
18126545	5 G 1.5	16	8.3	72.0	141.0
18126546	7 G 1.5	16	9.2	100.8	191.0
18126547	8 G 1.5	16	9.9	115.2	224.0
18126548	10 G 1.5	16	12.0	144.0	282.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
18126549	12 G 1.5	16	12.4	172.8	311.0
18126550	16 G 1.5	16	13.9	230.4	392.0
18126551	18 G 1.5	16	14.8	259.2	450.0
18126552	25 G 1.5	16	17.6	360.0	630.0
18126553	2 x 2.5	14	7.8	48.0	118.0
18126554	3 G 2.5	14	8.3	72.0	151.0
18126555	4 G 2.5	14	9.3	96.0	181.0
18126556	5 G 2.5	14	10.1	120.0	224.0
18126557	7 G 2.5	14	11.2	168.0	316.0
18126558	10 G 2.5	14	14.8	240.0	451.0
18126559	12 G 2.5	14	15.3	288.0	499.0
18126560	16 G 2.5	14	17.1	384.0	720.0
18126561	18 G 2.5	14	18.2	432.0	769.0
18126562	25 G 2.5	14	21.6	600.0	1047.0
18126563	2 x 4	12	9.2	76.8	199.0
18126564	3 G 4	12	9.8	115.2	247.0
18126565	4 G 4	12	10.9	153.6	299.0
18126566	5 G 4	12	12.1	192.0	369.0