

HELUCONTROL® JZ-510-HMH-C UV / HELUCONTROL® OZ-510-HMH-C UV

highly flame-retardant, EMC-preferred type



HELUKABEL® HELUCONTROL® JZ-510-HMH-C 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
Test voltage core/screen	2000 V
Coupling resistance	at 30 MHz, approx. 250 Ohm/km
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 0293-334, 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
- Foil wrapping
- 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: grey (RAL 7001)
- 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. 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.
18126433	2 x 0.5	20	5.6	35.0	46.0
18126434	3 x 0.5	20	5.9	42.0	56.0
18126435	3 G 0.5	20	5.9	42.0	56.0
18126436	4 x 0.5	20	6.3	47.0	62.0
18126437	4 G 0.5	20	6.3	47.0	62.0
18126438	5 x 0.5	20	6.8	56.0	75.0
18126439	5 G 0.5	20	6.8	56.0	75.0
18126440	7 x 0.5	20	7.3	69.0	98.0
18126441	7 G 0.5	20	7.3	69.0	98.0
18126442	12 G 0.5	20	9.3	108.0	158.0
18126443	18 G 0.5	20	11.3	145.0	216.0
18126444	25 G 0.5	20	13.4	240.0	315.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
18126445	2 x 0.75	19	6.1	40.0	60.0
18126446	3 x 0.75	19	6.4	52.0	68.0
18126447	3 G 0.75	19	6.4	52.0	68.0
18126448	4 x 0.75	19	6.9	60.0	78.0
18126449	4 G 0.75	19	6.9	60.0	78.0
18126450	5 x 0.75	19	7.5	71.0	95.0
18126451	5 G 0.75	19	7.5	71.0	95.0
18126452	7 x 0.75	19	8.3	91.0	130.0
18126453	7 G 0.75	19	8.3	91.0	130.0
18126454	12 G 0.75	19	10.9	142.0	203.0
18126455	18 G 0.75	19	12.8	212.0	290.0
18126456	25 G 0.75	19	15.1	281.0	413.0

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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.
18126457	2 x 1	18	6.4	50.0	66.0
18126458	3 x 1	18	6.8	60.0	80.0
18126459	3 G 1	18	6.8	60.0	80.0
18126460	4 x 1	18	7.3	71.0	100.0
18126461	4 G 1	18	7.3	71.0	100.0
18126462	5 x 1	18	8.1	88.0	130.0
18126463	5 G 1	18	8.1	88.0	130.0
18126464	7 x 1	18	8.7	111.0	160.0
18126465	7 G 1	18	8.7	111.0	160.0
18126466	12 G 1	18	11.6	184.0	260.0
18126467	18 G 1	18	13.7	260.0	382.0
18126468	25 G 1	18	16.2	349.0	540.0
18126469	2 x 1.5	16	7.0	63.0	88.0
18126470	3 G 1.5	16	7.4	80.0	100.0
18126471	4 G 1.5	16	8.2	97.0	125.0
18126472	5 G 1.5	16	8.9	119.0	158.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
18126473	7 G 1.5	16	9.8	147.0	210.0
18126474	12 G 1.5	16	13.2	267.0	340.0
18126475	18 G 1.5	16	15.6	374.0	480.0
18126476	25 G 1.5	16	18.2	526.0	702.0
18126477	2 x 2.5	14	8.4	96.0	132.0
18126478	3 G 2.5	14	8.9	144.0	168.0
18126479	4 G 2.5	14	9.9	148.0	195.0
18126480	5 G 2.5	14	10.9	181.0	222.0
18126481	7 G 2.5	14	11.8	255.0	345.0
18126482	12 G 2.5	14	16.1	441.0	572.0
18126483	18 G 2.5	14	18.2	449.0	700.0
18126484	25 G 2.5	14	21.3	602.0	950.0
18126485	2 x 4	12	9.8	120.0	184.0
18126486	3 G 4	12	10.4	174.0	238.0
18126487	4 G 4	12	11.5	230.0	305.0
18126488	5 G 4	12	12.7	273.0	388.0