

HELUCONTROL® JZ-620-HMH

HELUCONTROL® OZ-620-HMH

flexible, halogen-free, flame retardant, low smoke density



TECHNICAL DATA

Halogen-free flexible power-control cable based on IEC 60502

Temperature range	flexible -15°C to +70°C (single core cable from -5°C to +70°C) fixed -40°C to +70°C
Nominal voltage	U ₀ /U 0,6/1 kV
Spark Test voltage	5000 V
Minimum bending radius	multi-wire: flexible 15x Ø cable fixed 5x Ø cable single wire: flexible 10x Ø cable fixed 4x Ø cable
CPR acc. to EN 50575	B2ca - s1a, d0, a1

CABLE STRUCTURE

- copper wire bare, finely stranded, class 5 acc. to DIN VDE 0295 / IEC 60228
- core insulation: halogen-free polymer
- Core identification: see table,
G = with protective conductor GN-YE, in the outer layer,
x = without protective conductor (OZ)
- Cores stranded in layers with optimal lay lengths
- outer sheath: halogen-free polymer
- outer sheath colour: black
- with meter marking

PROPERTIES

- resistant to: UV radiation, weathering effects
- for outdoor and indoor use
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- flame retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- flame test on bunched wires acc. to DIN VDE 0482-322-3-24 / DIN EN 60332-3-24 / IEC 60332-3-24
- 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
- smoke density acc. to DIN VDE 0482-1034-2 / DIN EN 61034-2 / IEC 61034-2
- UV-resistant acc. to DIN EN ISO 4892-3 / ISO 4892-3
- Weather-resistant acc. to DIN EN ISO 4892-3 / ISO 4892-3

APPLICATION

Used as measuring, monitoring and control cable in: machine tooling, conveyor belt systems, production lines, plant installations, air-conditioning systems, foundries and steel mills. For use in fixed and flexible applications with little to medium mechanical stress, occasional free movement and no tensile load stress. The cable is suitable for use in dry, damp and wet locations and on plaster.

Core identification acc. to DIN VDE 0293-308, black

Part no.	No. cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
18051905	1 x 4	6,7	38,40	81
18051906	1 x 6	7,2	57,60	103
18051907	1 x 10	8,6	96,00	157
18051908	1 x 16	9,6	153,60	220
18051909	1 x 25	11,5	240,00	330
18051910	1 x 35	12,7	336,00	433
18051911	1 x 50	15,2	480,00	619

Part no.	No. cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
18051912	1 x 70	16,8	672,00	850
18051913	1 x 95	19,3	912,00	1.119
18051914	1 x 120	21,1	1.152,00	1.351
18051915	1 x 150	23,5	1.440,00	1.688
18051916	1 x 185	25,9	1.776,00	2.056
18051917	1 x 240	29,4	2.304,00	2.938
18051918	1 x 300	31,8	2.880,00	3.702

Continuation ►

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Core identification acc. to DIN VDE 0293-308, green-yellow

Part no.	No. cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
18051919	1 G 4	6,7	38,40	81
18051920	1 G 6	7,2	57,60	103
18051921	1 G 10	8,6	96,00	157
18051922	1 G 16	9,6	153,60	220
18051923	1 G 25	11,5	240,00	330
18051924	1 G 35	12,7	336,00	433
18051925	1 G 50	15,2	480,00	619

Part no.	No. cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
18051926	1 G 70	16,8	672,00	850
18051927	1 G 95	19,3	912,00	1.119
18051928	1 G 120	21,1	1.152,00	1.351
18051929	1 G 150	23,5	1.440,00	1.688
18051930	1 G 180	25,9	1.776,00	2.056
18051931	1 G 240	29,4	2.304,00	2.938
18051932	1 G 300	31,8	2.880,00	3.702

Core identification acc. to DIN VDE 0293-334, black cores with consecutive labeling in white digits

Part no.	No. cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
18051933	2 x 0,5	6,6	9,6	58
18051934	3 G 0,5	7	14,4	68
18051935	3 x 0,5	7	14,4	68
18051936	4 G 0,5	7,5	19,2	80
18051937	4 x 0,5	7,5	19,2	80
18051938	5 G 0,5	8,1	24,0	94
18051939	5 x 0,5	8,1	24,0	94
18051940	7 G 0,5	8,8	33,6	115
18051941	12 G 0,5	11,1	57,6	191
18051942	18 G 0,5	13,0	86,4	273
18051943	25 G 0,5	15,2	120,0	358
18051944	34 G 0,5	18,0	163,2	489
18051945	2 x 0,75	7	14,4	68
18051946	3 G 0,75	7,4	21,6	80
18051947	3 x 0,75	7,4	21,6	80
18051948	4 G 0,75	8	28,8	96
18051949	4 x 0,75	8	28,8	96
18051950	5 G 0,75	8,7	36,0	115
18051951	5 x 0,75	8,7	36,0	115
18051952	7 G 0,75	9,4	50,4	140
18051953	7 x 0,75	9,4	50,4	140
18051954	12 G 0,75	11,9	86,4	234
18051955	18 G 0,75	14,1	129,6	333
18051956	25 G 0,75	16,6	180,0	453
18051957	34 G 0,75	19,6	244,8	618
18051958	37 G 0,75	19,6	266,4	633
18051959	2 x 1	7,3	19,2	76
18051960	3 G 1	7,7	28,8	90
18051961	3 x 1	7,7	28,8	90
18051962	4 G 1	8,3	38,4	108
18051963	4 x 1	8,3	38,4	108
18051964	5 G 1	9,1	48,0	132
18051965	7 G 1	9,8	67,2	166
18051966	10 G 1	12,2	96,0	194
18051967	12 G 1	12,6	115,2	273
18051968	16 G 1	14,0	153,6	277
18051969	18 G 1	15,1	172,8	392
18051970	19 G 1	15,1	182,4	398
18051971	25 G 1	17,6	240,0	528
18051972	27 G 1	18,6	259,2	592
18051973	34 G 1	20,9	326,4	727
18051974	37 G 1	20,9	355,2	748
18051975	2 x 1,5	8,3	28,8	102
18051976	3 G 1,5	8,8	43,2	122

Part no.	No. cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
18051977	3 x 1,5	8,8	43,2	122
18051978	4 G 1,5	9,5	57,6	147
18051979	5 G 1,5	10,4	72,0	184
18051980	7 G 1,5	11,3	100,8	227
18051981	12 G 1,5	15	172,8	388
18051982	18 G 1,5	17,9	259,2	553
18051983	25 G 1,5	20,9	360,0	751
18051984	34 G 1,5	24,7	489,6	1.032
18051985	37 G 1,5	24,7	532,8	1.063
18051986	2 x 2,5	9,5	48,0	141
18051987	3 G 2,5	10,0	72,0	174
18051988	4 G 2,5	10,9	96,0	214
18051989	5 G 2,5	12,0	120,0	261
18051990	7 G 2,5	13,3	168,0	334
18051991	12 G 2,5	17,8	288,0	570
18051992	18 G 2,5	21,3	432,0	823
18051993	25 G 2,5	25,0	600,0	1.118
18051994	34 G 2,5	29,6	816,0	1.545
18051995	2 x 4	10,7	76,8	195
18051996	3 G 4	11,4	115,2	241
18051997	4 G 4	12,5	153,6	305
18051998	5 G 4	13,9	192,0	371
18051999	7 G 4	15,4	268,8	471
18052000	2 x 6	11,8	115,2	252
18052001	3 G 6	12,6	172,8	322
18052002	4 G 6	14,0	230,4	402
18052003	5 G 6	15,6	288,0	492
18052004	7 G 6	17,3	403,2	640
18052005	3 G 10	15,9	288,0	511
18052006	4 G 10	17,9	384,0	643
18052007	5 G 10	20,0	480,0	804
18052008	7 G 10	22,2	672,0	1.028
18052009	3 G 16	18,5	460,8	723
18052010	4 G 16	20,7	614,4	924
18052011	5 G 16	23,0	768,0	1.150
18052012	7 G 16	25,6	1.075,2	1.492
18052013	4 G 25	25,8	960,0	1.469
18052014	5 G 25	28,9	1.200,0	1.840
18052015	4 G 35	29,0	1.344,0	1.963
18052016	5 G 35	32,7	1.680,0	2.458
18052017	4 G 50	34,8	1.920,0	2.813
18052018	5 G 50	39,1	2.400,0	3.513
18052019	4 G 70	38,7	2.688,0	3.878
18052020	4 G 95	44,5	3.648,0	5.084