

# JZ-500 HMH

flexible control cable, halogen-free, extremely fire resistant<sup>1)</sup>, oil resistant<sup>1)</sup>, meter marking



## Technical data

- Halogen-free flexible control cable adapted to  
DIN VDE 0285-525-2-51 /  
DIN EN 50525-2-51 and  
DIN VDE 0285-525-3-11 /  
DIN EN 50525-3-11
- **Temperature range**  
flexing -15°C to +70°C  
fixed installation -40°C to +70°C
- **Nominal voltage**  
U<sub>0</sub>/U 300/500 V
- **Test voltage**  
2000 V
- **Minimum bending radius**  
flexing 12,5x cable Ø  
fixed installation 4x cable Ø
- **Radiation resistance**  
up to 100x10<sup>6</sup> cJ/kg (up to 100 Mrad)

## Cable structure

- Bare copper conductor, to  
DIN VDE 0295 cl.5, fine wire,  
BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of halogen-free polymer compound type T16 to  
DIN VDE 0207-363-7 / DIN EN 50363-7
- Core identification to DIN VDE 0293  
black cores with continuous white numbering
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal lay length
- Outer sheath of halogen-free polymer compound type TM7 to  
DIN VDE 0207-363-8 / DIN EN 50363-8
- Outer Sheath colour: grey (RAL 7001)
- With meter marking
- **LSOH**= Low Smoke Zero Halogen

## Properties

- <sup>1)</sup> For the critical applications we advise for consultation
- 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 test acc. to  
DIN VDE 0482-332-3-24, BS 4066 part 3,  
DIN EN 60332-3-24, IEC 60332-3-24  
(previously DIN VDE 0472 part 804 test method C)
- Self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2,  
DIN EN 60332-1-2, IEC 60332-1-2  
(equivalent DIN VDE 0472 part 804 test method B)
- Corrosiveness of combustion gases acc. to DIN VDE 0482-754-2,  
DIN EN 60754-2, IEC 60754-2  
(previously DIN VDE 0482-267-2-2)
- Halogen-free acc. to  
DIN VDE 0482-754-1,  
DIN EN 60754-1, IEC 60754-1  
(previously DIN VDE 0482-267-2-1)
- Smoke density acc. to DIN VDE 0482 part 1034-1+2, DIN EN 61034-1+2,  
IEC 61034-1+2, BS 7622 part 1+2

## Note

- G = with GN-YE conductor  
x = without GN-YE conductor (OZ)
- AWG sizes are approximate equivalent values. The actual cross section is in mm<sup>2</sup>.
- Please note "cleanroom qualified" when ordering.
- Screened analogue type:  
**JZ-500 HMH-C**

## Application

Used as measuring, monitoring and control cables in tool machinery, conveyor belts, production lines, in plant, in air-conditioning, in foundries and steel mills. For fixed installation or flexible application, casual, not constantly recurring free movement without forced motion and without tensile stress, for medium mechanical stress. The cable is suitable for use in dry, damp and wet locations and on plaster.

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
11201	2 x 0,5	4,8	9,6	43,0	20
11202	3 G 0,5	5,1	14,4	50,0	20
11332	3 x 0,5	5,1	14,4	50,0	20
11203	4 G 0,5	5,6	19,0	60,0	20
11333	4 x 0,5	5,5	19,0	60,0	20
11204	5 G 0,5	6,2	24,0	71,0	20
11334	5 x 0,5	6,2	24,0	71,0	20
11205	7 G 0,5	6,7	33,6	84,0	20
11206	8 G 0,5	7,4	38,0	101,0	20
11207	10 G 0,5	8,3	48,0	121,0	20
11208	12 G 0,5	8,7	58,0	142,0	20
11209	16 G 0,5	10,0	76,0	183,0	20

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
11210	18 G 0,5	10,7	86,0	204,0	20
11211	20 G 0,5	11,3	96,0	227,0	20
11212	25 G 0,5	12,6	120,0	283,0	20
11213	30 G 0,5	13,5	144,0	324,0	20
11214	34 G 0,5	14,3	163,0	367,0	20
11215	37 G 0,5	14,5	178,0	381,0	20
11216	41 G 0,5	15,8	197,0	417,0	20
11217	42 G 0,5	15,8	202,0	454,0	20
11218	50 G 0,5	17,5	240,0	519,0	20
11219	61 G 0,5	18,5	293,0	635,0	20
11220	65 G 0,5	19,4	312,0	694,0	20

Continuation ►

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Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
11221	2 x 0,75	5,3	14,4	47,0	19
11222	3 G 0,75	5,6	21,6	56,0	19
11335	3 x 0,75	5,6	21,6	56,0	19
11223	4 G 0,75	6,3	29,0	69,0	19
11336	4 x 0,75	6,3	29,0	69,0	19
11224	5 G 0,75	6,9	36,0	83,0	19
11337	5 x 0,75	6,9	36,0	83,0	19
11225	7 G 0,75	7,5	50,0	114,0	19
11338	7 x 0,75	7,5	50,0	114,0	19
11226	8 G 0,75	8,3	58,0	136,0	19
11227	10 G 0,75	9,2	72,0	172,0	19
11228	12 G 0,75	9,8	86,0	183,0	19
11229	16 G 0,75	11,4	115,0	241,0	19
11230	18 G 0,75	12,2	130,0	266,0	19
11231	20 G 0,75	12,7	144,0	291,0	19
11232	25 G 0,75	14,3	180,0	374,0	19
11233	30 G 0,75	15,3	216,0	450,0	19
11234	34 G 0,75	16,5	245,0	517,0	19
11235	37 G 0,75	16,7	260,0	541,0	19
11236	41 G 0,75	18,1	296,0	611,0	19
11237	42 G 0,75	18,1	302,0	621,0	19
11238	50 G 0,75	19,8	360,0	742,0	19
11239	61 G 0,75	21,2	439,0	853,0	19
11240	65 G 0,75	21,8	468,0	909,0	19
11241	2 x 1	5,6	19,2	63,0	18
11242	3 G 1	5,9	29,0	74,0	18
11339	3 x 1	5,9	29,0	74,0	18
11243	4 G 1	6,6	38,4	90,0	18
11340	4 x 1	6,6	38,4	90,0	18
11244	5 G 1	7,3	48,0	109,0	18
11245	7 G 1	8,1	67,0	151,0	18
11246	8 G 1	8,8	77,0	184,0	18
11247	10 G 1	9,8	96,0	224,0	18
11248	12 G 1	10,4	115,0	243,0	18
11249	16 G 1	12,3	154,0	314,0	18
11250	18 G 1	12,9	173,0	361,0	18
11251	20 G 1	13,8	192,0	387,0	18
11252	25 G 1	15,4	240,0	496,0	18
11253	34 G 1	17,7	326,0	670,0	18
11254	37 G 1	17,9	355,0	713,0	18
11255	41 G 1	19,5	394,0	784,0	18
11256	42 G 1	19,5	403,0	824,0	18
11257	50 G 1	21,3	480,0	952,0	18
11258	61 G 1	22,5	586,0	1140,0	18
11259	65 G 1	23,6	628,0	1201,0	18
11260	2 x 1,5	6,4	29,0	70,0	16
11261	3 G 1,5	6,8	43,0	94,0	16
11341	3 x 1,5	6,8	43,0	94,0	16
11262	4 G 1,5	7,4	58,0	112,0	16
11263	5 G 1,5	8,3	72,0	141,0	16
11264	7 G 1,5	9,2	101,0	191,0	16
11265	8 G 1,5	10,0	115,0	224,0	16
11266	10 G 1,5	10,9	144,0	282,0	16
11267	12 G 1,5	11,8	173,0	311,0	16
11268	16 G 1,5	13,9	230,0	392,0	16
11269	18 G 1,5	14,6	259,0	450,0	16
11270	20 G 1,5	15,6	288,0	497,0	16
11271	25 G 1,5	17,4	360,0	630,0	16
11272	34 G 1,5	20,2	490,0	842,0	16
11273	37 G 1,5	20,2	533,0	897,0	16
11274	50 G 1,5	24,2	720,0	1277,0	16
11275	61 G 1,5	25,8	878,0	1460,0	16
11276	65 G 1,5	26,8	936,0	1612,0	16

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
11277	2 x 2,5	7,8	48,0	118,0	14
11278	3 G 2,5	8,3	72,0	151,0	14
11279	4 G 2,5	9,2	96,0	181,0	14
11280	5 G 2,5	10,1	120,0	224,0	14
11281	7 G 2,5	11,2	168,0	316,0	14
11282	8 G 2,5	12,3	192,0	370,0	14
11283	10 G 2,5	14,0	240,0	451,0	14
11284	12 G 2,5	14,8	288,0	499,0	14
11285	16 G 2,5	17,1	384,0	720,0	14
11286	18 G 2,5	18,2	432,0	769,0	14
11287	20 G 2,5	19,2	480,0	911,0	14
11288	25 G 2,5	21,6	600,0	1047,0	14
11289	30 G 2,5	23,0	720,0	1280,0	14
11290	2 x 4	9,3	77,0	199,0	12
11291	3 G 4	9,8	115,0	247,0	12
11292	4 G 4	10,9	154,0	299,0	12
11293	5 G 4	12,1	192,0	369,0	12
11294	7 G 4	13,2	269,0	463,0	12
11295	8 G 4	14,7	307,0	601,0	12
11296	10 G 4	17,5	384,0	698,0	12
11297	12 G 4	17,7	461,0	790,0	12
11298	16 G 4	20,3	614,0	1130,0	12
11299	18 G 4	21,6	691,0	1280,0	12
11300	2 x 6	11,0	115,0	266,0	10
11301	3 G 6	11,9	173,0	360,0	10
11302	4 G 6	13,0	230,0	429,0	10
11303	5 G 6	14,5	288,0	529,0	10
11304	7 G 6	16,2	403,0	631,0	10
11305	2 x 10	13,8	192,0	440,0	8
11306	3 G 10	14,9	288,0	550,0	8
11307	4 G 10	16,5	384,0	708,0	8
11308	5 G 10	18,3	480,0	862,0	8
11309	7 G 10	20,2	672,0	1124,0	8
11310	2 x 16	16,8	307,0	642,0	6
11311	3 G 16	18,3	461,0	830,0	6
11312	4 G 16	20,1	614,0	1060,0	6
11313	5 G 16	22,6	768,0	1270,0	6
11314	7 G 16	24,8	1075,0	1794,0	6
11315	3 G 25	22,3	720,0	1190,0	4
11316	4 G 25	25,0	960,0	1594,0	4
11317	5 G 25	27,7	1200,0	2014,0	4
11318	3 G 35	25,9	1008,0	1590,0	2
11319	4 G 35	28,7	1344,0	2200,0	2
11320	5 G 35	31,9	1680,0	2693,0	2
11321	3 G 50	30,8	1440,0	2571,0	1
11322	4 G 50	34,1	1920,0	3087,0	1
11323	5 G 50	38,1	2400,0	3980,0	1
11324	3 G 70	36,4	2016,0	3207,0	2/0
11325	4 G 70	40,2	2688,0	4077,0	2/0
11326	5 G 70	44,7	3360,0	5501,0	2/0
11327	3 G 95	41,3	2736,0	4708,0	3/0
11328	4 G 95	46,0	3648,0	5590,0	3/0
11329	5 G 95	50,7	4560,0	6972,0	3/0
11330	3 G 120	47,0	3456,0	5515,0	4/0
11331	4 G 120	51,0	4608,0	7100,0	4/0

Dimensions and specifications may be changed without prior notice. (RA03)