

JZ-500 HMH flexible control cable, halogen-free, extremely fire resistant, oil resistant¹⁾, meter marking



A



Technical data

- Halogen-free flexible control cable, adapted to E DIN VDE 0281 part 14 and DIN VDE 0281 part 13
- **Temperature range**
flexing -15°C to +70°C
fixed installation -40°C to +70°C
- **Nominal voltage** U_b/U 300/500 V
- **Test voltage** 2000 V
- **Minimum bending radius**
flexing approx. 12,5x cable Ø
fixed installation approx. 4x cable Ø
- **Radiation resistance**
up to 100x10⁶ cJ/kg (up to 100 Mrad)

Cable structure

- Bare copper, fine wire conductors, to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Core insulation of halogen-free compound TI6, to E DIN VDE 0281 part 14
- Black cores with white continuous numbering to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layer with optimal lay-length
- Halogen-free sheath compound TM7, to E DIN VDE 0281 part 14
- Outer jacket colour grey (RAL 7001)
- with meter marking, change-over in 2009
- **LSOH** = Low Smoke Zero Halogen-free.

Properties

- ¹⁾ For the critical applications we advise for consultation
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- **Tests**
Flame test to VDE 0482 part 266-2, BS 4066 part 3/ DIN EN 50266-2/ IEC 60332-3 (equivalent DIN VDE 0472 part 804 test method C)
- self-extinguishing and flame retardant according to VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Corrosiveness of combustion gases according to VDE 0482 part 267/ DIN EN 50267-2-2/ IEC 60754-2 (equivalent DIN VDE 0472 part 813)
- Halogen-free according to VDE 0482 part 267/ DIN EN 50267-2-1/ IEC 60754-1 (equivalent DIN VDE 0472 part 815)
- Smoke density according to VDE 0482 part 1034-1+2 / IEC 61034-1+2 / DIN EN 61034-1+2 / BS 7622 part 1+2 (equivalent DIN VDE 0472 part 816)

Note

- G = with green-yellow earth core;
x = without green-yellow earth core (OZ).
- Please note the cleanroom qualification when ordering.
- **screened analogue type:**
JZ-500 HMH-C, see page A 71

Application

Halogen-free, flame retardant cables are used as measuring and control cable in machine tools, conveyor belts, production lines as well as in plant installations, in air-conditioning and steel production works. For fixed installation or flexible application, directed without forcing by casual, not constantly recurring free movements and without tensile stress, for medium mechanical strain. This cable is suitable for the application in dry, damp and wet environments and also for laying on, in and under plaster as well as in concrete and masonry excluding in direct laying in shaken or stamped concrete, not suitable for imbedding in solidified or compressed concrete.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part No.	No. cores x cross-sec. mm ²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.	Part No.	No. cores x cross-sec. mm ²	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	11210	18 G 0,5	10,7	86,0	204,0	20
11202	3 G 0,5	5,1	14,4	50,0	20	11211	20 G 0,5	11,2	96,0	227,0	20
11332	3 x 0,5	5,1	14,4	50,0	20	11212	25 G 0,5	12,7	120,0	283,0	20
11203	4 G 0,5	5,7	19,0	60,0	20	11213	30 G 0,5	13,5	144,0	324,0	20
11333	4 x 0,5	5,7	19,0	60,0	20	11214	34 G 0,5	14,5	163,0	367,0	20
11204	5 G 0,5	6,2	24,0	71,0	20	11215	37 G 0,5	15,0	178,0	381,0	20
11334	5 x 0,5	6,2	24,0	71,0	20	11216	41 G 0,5	15,8	197,0	417,0	20
11205	7 G 0,5	7,4	35,6	84,0	20	11217	42 G 0,5	15,8	202,0	454,0	20
11206	8 G 0,5	8,0	38,0	101,0	20	11218	50 G 0,5	17,3	240,0	519,0	20
11207	10 G 0,5	8,8	48,0	121,0	20	11219	61 G 0,5	19,4	293,0	635,0	20
11208	12 G 0,5	9,1	58,0	142,0	20	11220	65 G 0,5	19,4	312,0	694,0	20
11209	16 G 0,5	10,0	76,0	183,0	20						

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

Continuation ▶

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

Part No.	No. cores x cross-sec. mm ²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
11277	2 x 2,5	7,6	48,0	118,0	14
11278	3 G 2,5	8,3	72,0	151,0	14
11279	4 G 2,5	9,1	96,0	181,0	14
11280	5 G 2,5	10,2	120,0	224,0	14
11281	7 G 2,5	12,1	168,0	316,0	14
11282	8 G 2,5	13,2	192,0	370,0	14
11283	10 G 2,5	14,7	240,0	451,0	14
11284	12 G 2,5	15,2	288,0	499,0	14
11285	16 G 2,5	17,5	384,0	720,0	14
11286	18 G 2,5	18,1	432,0	769,0	14
11287	20 G 2,5	18,7	480,0	911,0	14
11288	25 G 2,5	22,2	600,0	1047,0	14
11289	30 G 2,5	23,7	720,0	1280,0	14
11290	2 x 4	9,2	77,0	199,0	12
11291	3 G 4	9,9	115,0	247,0	12
11292	4 G 4	11,0	154,0	299,0	12
11293	5 G 4	12,1	192,0	369,0	12
11294	7 G 4	13,3	269,0	463,0	12
11295	8 G 4	15,9	307,0	601,0	12
11296	10 G 4	17,3	384,0	698,0	12
11297	12 G 4	18,3	461,0	790,0	12
11298	16 G 4	20,2	614,0	1130,0	12
11299	18 G 4	21,8	691,0	1280,0	12
11300	2 x 6	10,8	115,0	266,0	10
11301	3 G 6	11,7	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	16,0	403,0	631,0	10
11305	2 x 10	14,0	192,0	440,0	8
11306	3 G 10	15,0	288,0	550,0	8
11307	4 G 10	16,8	384,0	708,0	8
11308	5 G 10	18,7	480,0	860,0	8
11309	7 G 10	20,6	672,0	1124,0	8
11310	2 x 16	16,5	307,0	642,0	6
11311	3 G 16	17,6	461,0	830,0	6
11312	4 G 16	19,7	614,0	1060,0	6
11313	5 G 16	21,9	768,0	1270,0	6
11314	7 G 16	24,4	1075,0	1794,0	6
11315	3 G 25	22,5	720,0	1190,0	4
11316	4 G 25	25,2	960,0	1594,0	4
11317	5 G 25	27,9	1200,0	2014,0	4
11318	3 G 35	25,2	1008,0	1590,0	2
11319	4 G 35	28,0	1344,0	2200,0	2
11320	5 G 35	31,0	1680,0	2693,0	2
11321	3 G 50	29,5	1440,0	2571,0	1
11322	4 G 50	33,4	1920,0	3087,0	1
11323	5 G 50	37,2	2400,0	3980,0	1
11324	3 G 70	37,0	2016,0	3207,0	2/0
11325	4 G 70	41,2	2688,0	4077,0	2/0
11326	5 G 70	46,0	3360,0	5501,0	2/0
11327	3 G 95	41,0	2736,0	4708,0	3/0
11328	4 G 95	46,0	3648,0	5590,0	3/0
11329	5 G 95	50,5	4560,0	6972,0	3/0
11330	3 G 120	45,7	3456,0	5515,0	4/0
11331	4 G 120	50,3	4608,0	7100,0	4/0

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Quality assurance inspections with the aid of a stereo microscope at our Windsbach factory.

