

JZ-HF flexible, number coded, control cable for drag chains, oil resistant, meter marking



Technical data

- Special PVC control cable, extreme flexibility due to special construction
- Requirements adapted to DIN VDE 0281 part 13
- **Temperature range**
flexing -5 °C to +80 °C
fixed installation -40 °C to +80 °C
- **Nominal voltage** U_0/U 300/500 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MΩm x km
- **Minimum bending radius**
flexing 7,5x cable Ø
fixed installation 4x cable Ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper, extra fine wire conductors, to DIN VDE 0295 cl. 6 col. 4, BS 6360 cl. 6 and IEC 60228 cl. 6
- Core insulation of special PVC Z 7225
- Black cores with continuous white figure imprint to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal selected lay-length
- Core wrapping with fleece
- Special PVC outer sheath, TM5 to DIN VDE 0281 part 1 and HD 21.1,
- Colour grey (RAL 7001)
- with meter marking, change-over in 2011

Properties

- PVC 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)
- Oil resistant to DIN/EN 60811-2-1
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

- G = with green-yellow earth core;
x = without green-yellow earth core (OZ).
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- Cleanroom qualification tested with analog type. Please note "cleanroom qualified" when ordering.
- **screened analogue type:**
JZ-HF-CY see page C 8

Application

JZ-HF cables are ideal for use in the machine tool industry, in robotics and machine production and anywhere where high flexibility is essential. These cables have shown excellent performance in combination with standard cable trays. These cables are suitable for flexible use for medium mechanical stresses with free movements.

For applications which go beyond standard solutions (for example for composting appliances or high shelf conveyors with extremely high processing speeds etc.) we recommend for our especially developed enquiry sheet for energy guiding systems.

Before installation in cable trays please read the instructions. Further technical details see selection table for drag chain cables, see lead text.

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 approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
15001	2 x 0,5	5,0	9,6	46,0	20
15002	3 G 0,5	5,3	14,0	57,0	20
15003	4 G 0,5	5,7	19,0	70,0	20
15004	5 G 0,5	6,4	24,0	93,0	20
15005	7 G 0,5	7,5	34,0	127,0	20
15090	7 x 0,5	7,5	34,0	127,0	20
15006	10 G 0,5	9,1	48,0	161,0	20
15007	12 G 0,5	9,2	58,0	177,0	20
15008	14 G 0,5	9,8	67,0	213,0	20
15009	16 G 0,5	10,3	77,0	260,0	20
15010	18 G 0,5	11,1	86,0	284,0	20
15011	20 G 0,5	11,6	96,0	318,0	20
15012	25 G 0,5	13,4	120,0	363,0	20
15013	30 G 0,5	13,7	144,0	432,0	20
15014	34 G 0,5	15,0	163,0	487,0	20
15015	36 G 0,5	15,0	173,0	518,0	20
15016	42 G 0,5	16,1	202,0	575,0	20
15017	50 G 0,5	17,9	240,0	675,0	20
15018	61 G 0,5	19,6	290,0	829,0	20

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
15019	2 x 0,75	5,4	14,4	58,0	18
15020	3 G 0,75	5,7	22,0	73,0	18
15021	4 G 0,75	6,4	29,0	77,0	18
15022	5 G 0,75	7,0	36,0	119,0	18
15023	7 G 0,75	8,3	50,0	165,0	18
15024	10 G 0,75	10,1	72,0	216,0	18
15025	12 G 0,75	10,2	86,0	247,0	18
15026	14 G 0,75	10,9	101,0	284,0	18
15027	16 G 0,75	11,5	115,0	320,0	18
15028	18 G 0,75	12,1	130,0	356,0	18
15029	20 G 0,75	12,8	144,0	453,0	18
15030	25 G 0,75	14,9	180,0	498,0	18
15031	30 G 0,75	15,2	216,0	510,0	18
15032	34 G 0,75	16,6	245,0	550,0	18
15033	36 G 0,75	16,6	259,0	570,0	18
15034	42 G 0,75	18,1	302,0	600,0	18
15035	50 G 0,75	20,0	360,0	700,0	18
15036	61 G 0,75	22,1	432,0	820,0	18
15091	65 G 0,75	22,7	439,0	841,0	18

Continuation ►

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Part no.	No. cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
15037	2 x 1	5,7	19,0	65,0	17
15038	3 G 1	6,0	29,0	84,0	17
15039	4 G 1	6,8	38,0	113,0	17
15040	5 G 1	7,4	48,0	137,0	17
15041	7 G 1	8,8	67,0	192,0	17
15042	10 G 1	10,7	96,0	251,0	17
15043	12 G 1	10,8	115,0	295,0	17
15044	14 G 1	11,6	134,0	337,0	17
15045	16 G 1	12,2	154,0	379,0	17
15046	18 G 1	13,0	173,0	420,0	17
15047	20 G 1	13,6	192,0	480,0	17
15048	25 G 1	15,8	240,0	600,0	17
15049	30 G 1	16,4	288,0	695,0	17
15050	34 G 1	17,8	326,0	777,0	17
15051	36 G 1	17,8	346,0	825,0	17
15052	41 G 1	19,3	403,0	926,0	17
15214	42 G 1	19,3	403,0	948,0	17
15053	50 G 1	21,2	480,0	1092,0	17
15092	61 G 1	23,7	586,0	1204,0	17
15054	65 G 1	24,4	624,0	1400,0	17
15055	2 x 1,5	6,4	29,0	91,0	16
15056	3 G 1,5	6,8	43,0	117,0	16
15057	4 G 1,5	7,4	58,0	147,0	16
15058	5 G 1,5	8,3	72,0	181,0	16
15059	7 G 1,5	9,9	101,0	273,0	16
15060	10 G 1,5	11,9	144,0	344,0	16
15061	12 G 1,5	12,1	173,0	391,0	16
15062	14 G 1,5	12,9	202,0	457,0	16
15063	16 G 1,5	13,6	230,0	523,0	16
15064	18 G 1,5	14,5	259,0	590,0	16
15065	20 G 1,5	15,2	288,0	650,0	16
15066	25 G 1,5	17,8	360,0	801,0	16
15067	30 G 1,5	18,2	432,0	958,0	16
15068	34 G 1,5	19,7	490,0	1084,0	16
15069	36 G 1,5	19,7	518,0	1135,0	16
15070	42 G 1,5	21,5	605,0	1290,0	16
15071	50 G 1,5	23,7	720,0	1521,0	16
15072	60 G 1,5	25,3	864,0	1885,0	16
15215	61 G 1,5	26,2	878,0	1916,0	16
15216	65 G 1,5	27,2	936,0	1994,0	16

Part no.	No. cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
15073	2 x 2,5	7,7	43,0	130,0	14
15074	3 G 2,5	8,4	72,0	160,0	14
15075	4 G 2,5	9,1	96,0	200,0	14
15076	5 G 2,5	10,2	120,0	268,0	14
15077	7 G 2,5	12,2	168,0	357,0	14
15078	10 G 2,5	15,0	240,0	486,0	14
15079	12 G 2,5	15,2	288,0	572,0	14
15080	14 G 2,5	16,1	336,0	612,0	14
15081	16 G 2,5	17,2	384,0	702,0	14
15082	18 G 2,5	18,1	432,0	800,0	14
15083	20 G 2,5	19,2	480,0	920,0	14
15084	25 G 2,5	22,5	600,0	1100,0	14
15085	30 G 2,5	23,5	720,0	1400,0	14
15086	34 G 2,5	25,2	816,0	1500,0	14
15087	36 G 2,5	25,2	864,0	1600,0	14
15088	42 G 2,5	27,4	1008,0	1800,0	14
15089	50 G 2,5	30,0	1200,0	2100,0	14
15142	3 G 4	10,4	115,0	221,0	12
15143	4 G 4	11,4	154,0	260,0	12
15144	5 G 4	12,7	192,0	318,0	12
15145	4 G 6	13,3	230,0	392,0	10
15146	5 G 6	14,5	288,0	481,0	10
15147	4 G 10	17,7	384,0	642,0	8
15148	5 G 10	19,7	480,0	780,0	8
15149	4 G 16	20,8	614,0	926,0	6
15150	5 G 16	23,3	768,0	1135,0	6

Dimensions and specifications may be changed without prior notice. (RC01)

To be able to provide information on the service life and in line with our certification to DIN EN ISO 9001:2000, we document the realistic testing of our cables suitable for use in drag chains.

HELUKABEL GMBH					
Schleppketten-Testergebnis					
Type:	JZ-HF / -CY				
Art. Nr	Aderzahl x Nennquerschnitt mm	Außendurchmesser mm	geschirmt	Mindestbiegeradius	Mindestbiegeradius
15023	7G0,75	8,30	nein	7,5rd	1.200,00
15005	7G0,5	7,50	nein	7,5rd	1.200,00
15041	7G1	8,80	nein	7,5rd	1.200,00
15058	5G1,5	9,10	nein	7,5rd	1.200,00
15006	10G0,5	9,10	nein	7,5rd	1.200,00
15075	4G2,5	15,40	ja	10rd	1.800,00
15967	18G1	13,10	ja	10rd	1.800,00
15986	14G0,75	13,10	ja	10rd	1.800,00
15966	12G1	14,40	ja	10rd	1.800,00
15928	7G2,5	12,70	ja	10rd	1.800,00
	5G2,5	14,50	ja	7,5rd	1.200,00