

# BIOFLEX-500® -JZ-HF

Bio-fuel resistant, abrasion resistant,  
recyclable environment friendly, bio-oil resistant <sup>1)</sup>, cable for drag chains



## Technical data

- Bio-oil resistant, abrasion resistant special high flexible control cable in adapted to DIN VDE 0245, 0281
- **Temperature range**  
flexing -20°C to +80°C  
fixed installation -40°C to +80°C
- **Nominal voltage** U<sub>0</sub>/U 300/500 V
- **Test voltage** 3000 V
- **Insulation resistance**  
min. 20 MΩm x km
- **Minimum bending radius**  
flexing 10x cable Ø  
fixed installation 4x cable Ø
- **Radiation resistance**  
up to 100x10<sup>6</sup> cJ/kg (up to 100 Mrad)

## Cable construction

- Bare copper, extra fine wire conductors, bunch stranded to DIN VDE 0295 cl. 6, BS 6360 cl. 6 and IEC 60228 cl. 6
- Special polymer core insulation, for better sliding abilities
- 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 outer sheath, polymer compound
- Colour dark green

## Properties

- **Resistant to**  
Bio-fuel (diesel and petrol), highly resistant to biologically decomposable oils, Oxygene, Ozone, Hydrolysis and Microbes
- Low adhesion

## 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 mm<sup>2</sup>.

## Application

HELUKABEL® BIOFLEX-HF-500 is an extremely robust and high flexible control cable with high abrasion and tear resistant properties. Due to its high resistance to Bio-fuel, Bio-oil and coolant emulsions. It is especially suited for use in the machine, tool making and plant industries as well as in the steel industry for difficult and problem areas. Suitable in combination with cable trays in dry, moist and wet rooms and outdoor installation. The high flexibility of this cable type makes it quick and easy to install. Suitable for outdoor lying. <sup>1)</sup> For the critical applications we advise for consultation. For applications which go beyond standard solutions 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 73/23/EEC and 93/68/EEC.

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
25761	2 x 0,5	5,4	9,6	45,0	20
25762	3 G 0,5	5,9	14,4	56,0	20
25763	4 G 0,5	6,3	19,1	69,0	20
25764	5 G 0,5	6,9	24,0	92,0	20
25765	7 G 0,5	7,8	33,6	126,0	20
25766	10 G 0,5	9,6	48,0	158,0	20
25767	12 G 0,5	10,3	58,0	176,0	20
25768	14 G 0,5	10,3	67,0	212,0	20
25769	18 G 0,5	11,5	86,4	283,0	20
25770	25 G 0,5	13,6	120,0	330,0	20
25771	2 x 0,75	5,9	14,4	57,0	18
25772	3 G 0,75	6,2	21,6	72,0	18
25773	4 G 0,75	6,7	29,0	97,0	18
25774	5 G 0,75	7,3	36,0	119,0	18
25775	7 G 0,75	8,7	50,0	165,0	18
25776	10 G 0,75	10,5	72,0	214,0	18
25777	12 G 0,75	11,0	86,0	247,0	18
25778	14 G 0,75	11,4	101,0	283,0	18
25779	18 G 0,75	12,6	130,0	356,0	18
25780	25 G 0,75	15,2	180,0	698,0	18
25781	2 x 1	6,6	19,0	64,0	17
25782	3 G 1	7,0	29,0	83,0	17
25783	4 G 1	7,6	38,5	113,0	17
25784	5 G 1	8,2	48,0	137,0	17
25785	7 G 1	9,6	67,0	191,0	17
25786	10 G 1	11,6	96,0	251,0	17
25787	12 G 1	12,0	115,0	294,0	17
25788	14 G 1	13,0	134,0	337,0	17
25789	18 G 1	14,5	173,0	420,0	17
25790	25 G 1	17,6	240,0	600,0	17
25791	2 x 1,5	7,1	29,0	90,0	16
25792	3 G 1,5	7,5	43,0	117,0	16
25793	4 G 1,5	8,2	58,0	147,0	16
25794	5 G 1,5	9,0	72,0	181,0	16
25795	7 G 1,5	10,8	101,0	274,0	16
25796	10 G 1,5	13,4	144,0	344,0	16

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
25797	12 G 1,5	13,4	173,0	391,0	16
25798	14 G 1,5	14,3	202,0	457,0	16
25799	18 G 1,5	16,0	259,0	589,0	16
25800	25 G 1,5	19,5	360,0	801,0	16
25801	2 x 2,5	8,6	48,0	128,0	14
25802	3 G 2,5	9,3	72,0	160,0	14
25803	4 G 2,5	10,3	96,0	200,0	14
25804	5 G 2,5	11,5	120,0	268,0	14
25805	7 G 2,5	13,4	168,0	357,0	14
25806	12 G 2,5	17,0	288,0	571,0	14
25807	14 G 2,5	18,5	336,0	612,0	14
25808	18 G 2,5	20,0	432,0	800,0	14
25809	25 G 2,5	29,6	600,0	1100,0	14
25810	2 x 4	10,4	77,0	190,0	12
25811	3 G 4	11,2	115,0	250,0	12
25812	4 G 4	12,5	154,0	320,0	12
25813	5 G 4	13,8	192,0	400,0	12
25814	3 G 6	13,0	173,0	350,0	10
25815	4 G 6	14,7	230,0	500,0	10
25816	5 G 6	16,0	288,0	580,0	10
25817	3 G 10	17,4	288,0	660,0	8
25818	4 G 10	19,0	384,0	750,0	8
25819	5 G 10	21,3	480,0	990,0	8
25820	4 G 16	23,2	614,0	1200,0	6
25821	4 G 25	34,0	960,0	1700,0	4
25822	4 G 35	37,0	1344,0	2300,0	2
25823	4 G 50	44,0	1920,0	2500,0	1
25824	4 G 70	53,0	2688,0	4600,0	2/0
25825	4 G 95	59,0	3648,0	6400,0	3/0

Dimensions and specifications may be changed without prior notice.