

# BIOFLEX-500®-JZ Bio-fuel resistant, abrasion resistant, recyclable environment friendly, bio-oil resistant<sup>1)</sup>, meter marking



## Technical data

- Bio-oil resistant, abrasion resistant special control cable in adapted to DIN VDE 0285-525-1 / DIN EN 50525-1
- **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 MOhm x km
- **Minimum bending radius**  
flexing 15x 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 special polymer
- 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 special polymer compound
- Sheath colour dark green
- with meter marking

## 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 conductor  
x = without green-yellow conductor (OZ)
- <sup>1)</sup> For the critical applications we advise for consultation.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- screened analogue type:  
**BIOFLEX-500®-JZ-C**, confer page 110

## Application

HELUKABEL® BIOFLEX-500®-JZ is an extremely robust 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. The high flexibility of this cable type makes it quick and easy to install. Suitable for outdoor lying.

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

Part no.	No.cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
25620	2 x 0,5	5,4	9,6	45,0	20
25621	3 G 0,5	5,9	14,4	55,0	20
25622	4 G 0,5	6,3	19,0	65,0	20
25623	5 G 0,5	6,9	24,0	75,0	20
25624	7 G 0,5	7,8	33,6	90,0	20
25625	10 G 0,5	9,6	48,0	120,0	20
25626	12 G 0,5	10,0	58,0	135,0	20
25627	14 G 0,5	10,3	67,0	170,0	20
25628	18 G 0,5	11,5	86,0	205,0	20
25629	25 G 0,5	13,6	120,0	270,0	20
25630	2 x 0,75	5,4	14,4	44,0	19
25631	3 G 0,75	6,2	21,6	53,0	19
25632	4 G 0,75	6,7	29,0	64,0	19
25633	5 G 0,75	7,3	36,0	76,0	19
25634	7 G 0,75	8,8	50,0	96,0	19
25635	10 G 0,75	10,5	72,0	140,0	19
25636	12 G 0,75	11,0	86,0	170,0	19
25637	14 G 0,75	11,4	101,0	202,0	19
25638	18 G 0,75	12,6	130,0	260,0	19
25639	25 G 0,75	15,2	180,0	282,0	19
25640	41 G 0,75	18,0	296,0	600,0	19
25641	42 G 0,75	18,5	310,0	620,0	19
25642	2 x 1	6,6	19,0	53,0	18
25643	3 G 1	7,0	29,0	63,0	18
25644	4 G 1	7,6	38,0	75,0	18
25645	5 G 1	8,2	48,0	89,0	18
25646	7 G 1	9,6	67,0	115,0	18
25647	10 G 1	11,6	96,0	166,0	18
25648	12 G 1	12,0	115,0	201,0	18
25649	14 G 1	13,2	134,0	230,0	18
25650	18 G 1	14,5	173,0	289,0	18
25651	25 G 1	17,6	240,0	380,0	18
25652	41 G 1	21,1	394,0	720,0	18
25653	42 G 1	21,5	403,0	740,0	18

Part no.	No.cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
25654	2 x 1,5	7,2	29,0	68,0	16
25655	3 G 1,5	7,6	43,0	87,0	16
25656	4 G 1,5	8,2	58,0	106,0	16
25657	5 G 1,5	9,0	72,0	131,0	16
25658	7 G 1,5	10,7	101,0	173,0	16
25659	10 G 1,5	13,0	144,0	245,0	16
25660	12 G 1,5	13,4	173,0	293,0	16
25661	14 G 1,5	14,5	202,0	347,0	16
25662	18 G 1,5	16,0	259,0	454,0	16
25663	25 G 1,5	19,5	360,0	641,0	16
25664	42 G 1,5	23,8	605,0	1100,0	16
25665	2 x 2,5	8,6	48,0	110,0	14
25666	3 G 2,5	9,3	72,0	146,0	14
25667	4 G 2,5	10,3	96,0	183,0	14
25668	5 G 2,5	11,5	120,0	222,0	14
25669	7 G 2,5	13,4	168,0	293,0	14
25670	12 G 2,5	17,0	288,0	512,0	14
25671	18 G 2,5	20,0	432,0	740,0	14
25672	25 G 2,5	24,1	600,0	940,0	14
25673	2 x 4	10,4	77,0	147,0	12
25674	3 G 4	11,2	115,0	228,0	12
25675	4 G 4	12,5	154,0	291,0	12
25676	5 G 4	13,8	192,0	355,0	12
25677	3 G 6	13,0	173,0	362,0	10
25678	4 G 6	14,7	230,0	468,0	10
25679	5 G 6	16,0	288,0	570,0	10
25680	3 G 10	16,7	288,0	555,0	8
25681	4 G 10	18,3	384,0	720,0	8
25682	5 G 10	20,5	480,0	890,0	8
25683	4 G 16	21,1	614,0	1063,0	6
25684	5 G 16	23,6	768,0	1400,0	6
25685	4 G 25	29,4	960,0	1590,0	4
25686	4 G 35	32,8	1344,0	2200,0	2
25687	4 G 50	38,9	1920,0	2400,0	1
25688	4 G 70	44,7	2688,0	4400,0	2/0
25689	4 G 95	59,6	3648,0	6000,0	3/0
25690	4 G 120	64,5	4608,0	7400,0	4/0

Dimensions and specifications may be changed without prior notice. (RA05)