BIOFLEX-500®-JZ Bio-fuel resistant, abrasion resistant, recyclable environment friendly, bio-oil resistant[1], meter marking

Technical data

- Bio-oil resistant, abrasion resistant special 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_0/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 100x10⁶ cJ/kg (up to 100 Mrad)

Cable structure

- Bare copper, fine wire conductors, bunch stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Special polymer core insulation
- 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 lay-length
- Special outher sheath, polymer compound
- Colour dark green
- with meter marking, change-over in 2009

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 mm².
- screened analogue type:
  BIOFLEX® JZ-500-C, see page A 85

Application

HELUKABEL® BIOFLEX-500 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.

[1]) For the critical applications we advise for consultation.

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

Part No.	No.cores x cross-sec. mm²	Outer ø app. mm	Cop. weight kg / km	Weight app. 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	18
25631	3 G 0,75	6,2	21,6	53,0	18
25632	4 G 0,75	6,7	29,0	64,0	18
25633	5 G 0,75	7,3	36,0	76,0	18
25634	7 G 0,75	8,8	50,0	96,0	18
25635	10 G 0,75	10,5	72,0	140,0	18
25636	12 G 0,75	11,0	86,0	170,0	18
25637	14 G 0,75	11,4	101,0	202,0	18
25638	18 G 0,75	12,6	130,0	260,0	18
25639	25 G 0,75	15,2	180,0	282,0	18
25640	41 G 0,75	18,0	296,0	600,0	18
25641	42 G 0,75	18,5	310,0	620,0	18
25642	2 x 1	6,6	19,0	53,0	17
25643	3 G 1	7,0	29,0	63,0	17
25644	4 G 1	7,6	38,0	75,0	17
25645	5 G 1	8,2	48,0	89,0	17
25646	7 G 1	9,6	67,0	115,0	17
25647	10 G 1	11,6	96,0	166,0	17
25648	12 G 1	12,0	115,0	201,0	17
25649	14 G 1	13,2	134,0	230,0	17
25650	18 G 1	14,5	173,0	289,0	17
25651	25 G 1	17,6	240,0	380,0	17
25652	41 G 1	21,1	394,0	720,0	17
25653	42 G 1	21,5	403,0	740,0	17
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

Part No.	No.cores x cross-sec. mm²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
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	894,0	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)