



HELUKABEL JZ-500-C black 12G 1,5 QMM/10963 300/500V 0010917711



## Technical data

- Special-PVC control cable adapted to DIN VDE 0285-525-2-51 / DIN EN 50525-2-51
- **Temperature range**  
flexing -10°C to +80°C  
fixed installation -40°C to +80°C
- **Nominal voltage** U<sub>0</sub>/U 300/500 V
- **Test voltage**  
core/core 4000 V  
core/screen 2000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**  
min. 20 MΩm x km
- **Coupling resistance**  
max. 250 Ωm/km
- **Minimum bending radius**  
flexing 10x cable Ø  
fixed installation 5x cable Ø
- **Radiation resistance**  
up to 80x10<sup>6</sup> cJ/kg (up to 80 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 PVC compound type Z 7225
- 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
- Foil separator
- Tinned copper braided screen, approx. 85% coverage
- Outer sheath of special PVC compound type TM2 to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1
- Sheath colour black (RAL 9005)
- with meter marking

## Properties

- Extensively oil resistant, oil-/chemical resistance see table Technical Informations
  - The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
  - **UV-resistant**
- ### Tests
- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

## Note

- G = with green-yellow conductor  
x = without green-yellow conductor (OZ)
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- unscreened analogue type  
**JZ-500 black**

## Application

For medium mechanical stress for flexible use with free movement without tensile stress or forced movements in dry, damp, wet rooms and **in open air**. Must not be laid directly in soil or water. When screened for measurement, control and control line etc. in mechanical and plant engineering, machine tools, production lines and conveyor belts.

**EMC** = Electromagnetic compatibility

To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

**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 app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.	Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
10934	2 x 0,5	6,1	35,0	45,0	20	11499	12 x 1	12,4	184,0	260,0	18
10935	3 G 0,5	6,4	42,0	55,0	20	10956	18 G 1	14,7	260,0	380,0	18
11479	3 x 0,5	6,4	42,0	55,0	20	10957	25 G 1	17,5	349,0	534,0	18
10936	4 G 0,5	6,8	47,0	61,0	20	10958	2 x 1,5	7,8	63,0	88,0	16
11480	4 x 0,5	6,8	47,0	61,0	20	10959	3 G 1,5	8,2	80,0	100,0	16
10937	5 G 0,5	7,5	56,0	74,0	20	11500	3 x 1,5	8,2	80,0	100,0	16
11481	5 x 0,5	7,5	56,0	74,0	20	10960	4 G 1,5	8,9	97,0	126,0	16
10938	7 G 0,5	8,1	69,0	98,0	20	11502	4 x 1,5	8,9	97,0	126,0	16
11482	7 x 0,5	8,1	69,0	98,0	20	10961	5 G 1,5	9,8	119,0	160,0	16
10939	12 G 0,5	10,6	108,0	157,0	20	11503	5 x 1,5	9,8	119,0	160,0	16
11483	12 x 0,5	10,6	108,0	157,0	20	10962	7 G 1,5	10,8	147,0	208,0	16
10940	18 G 0,5	12,4	145,0	217,0	20	11520	7 x 1,5	10,8	147,0	208,0	16
10941	25 G 0,5	14,7	240,0	314,0	20	10963	12 G 1,5	14,0	267,0	338,0	16
10942	2 x 0,75	6,7	40,0	59,0	19	11522	12 x 1,5	14,0	267,0	338,0	16
10943	3 G 0,75	7,0	52,0	66,0	19	10964	18 G 1,5	16,8	374,0	479,0	16
11484	3 x 0,75	7,0	52,0	66,0	19	10965	25 G 1,5	19,8	526,0	705,0	16
10944	4 G 0,75	7,7	60,0	77,0	19	10966	2 x 2,5	9,2	96,0	130,0	14
11485	4 x 0,75	7,7	60,0	77,0	19	10967	3 G 2,5	9,8	144,0	167,0	14
10945	5 G 0,75	8,2	71,0	93,0	19	11523	3 x 2,5	9,8	144,0	167,0	14
11486	5 x 0,75	8,2	71,0	93,0	19	10968	4 G 2,5	10,6	148,0	195,0	14
10946	7 G 0,75	9,0	91,0	130,0	19	11524	4 x 2,5	10,6	148,0	195,0	14
11487	7 x 0,75	9,0	91,0	130,0	19	10969	5 G 2,5	11,7	181,0	223,0	14
10947	12 G 0,75	11,6	142,0	202,0	19	11526	5 x 2,5	11,7	181,0	223,0	14
11488	12 x 0,75	11,6	142,0	202,0	19	10970	7 G 2,5	12,8	255,0	344,0	14
10948	18 G 0,75	13,7	212,0	292,0	19	11527	7 x 2,5	12,8	255,0	344,0	14
10949	25 G 0,75	16,4	281,0	415,0	19	10971	12 G 2,5	17,0	441,0	570,0	14
10950	2 x 1	7,0	50,0	65,0	18	11550	12 x 2,5	17,0	441,0	570,0	14
10951	3 G 1	7,5	60,0	80,0	18	10972	18 G 2,5	19,8	570,0	681,0	14
11493	3 x 1	7,5	60,0	80,0	18	10973	4 G 4	12,4	230,0	310,0	12
10952	4 G 1	8,0	71,0	98,0	18	10974	5 G 4	13,7	273,0	385,0	12
11495	4 x 1	8,0	71,0	98,0	18	10975	4 G 6	14,7	305,0	415,0	10
10953	5 G 1	8,8	88,0	127,0	18	10976	5 G 6	16,2	439,0	509,0	10
11496	5 x 1	8,8	88,0	127,0	18	10977	4 G 10	18,2	535,0	783,0	8
10954	7 G 1	9,5	111,0	158,0	18	10978	4 G 16	21,1	740,0	880,0	6
11497	7 x 1	9,5	111,0	158,0	18	10979	4 G 25	25,8	1140,0	1570,0	4
10955	12 G 1	12,4	184,0	260,0	18	10980	4 G 35	29,7	1576,0	2070,0	2

Dimensions and specifications may be changed without prior notice. (RA01)