

JZ-500-C black EMC-preferred type, Cu-screened, flexible, meter marking



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



Technical data

- Special PVC control cables, adapted to DIN VDE 0285-525-2-51 / DIN EN 50525-2-51
- **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**
core/core 4000 V
core/screen 2000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MOhm x km
- **Coupling resistance**
max. 250 Ohm/km
- **Minimum bending radius**
flexing 10x cable Ø
fixed installation 5x cable Ø
- **Radiation resistance**
up to 80×10^6 cJ/kg (up to 80 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
- 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 lay-length
- Foil separator
- Tinned copper braided screening, approx. 85% coverage
- Special PVC outer sheath TM2 to DIN VDE 0207-363-4-1/DIN EN 50363-4-1
- Colour black (RAL 9005)
- with meter marking

Properties

- Extensively oil resistant, oil-/ chemical Resistance - see table Technical Informations
- PVC self-extinguishing and flame retardant according to DIN VDE 0482-332-1-2, DIN EN 60332-1-2 / IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- 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**

Note

- G = with green-yellow earth core;
x = without green-yellow earth core (OZ).
- AWG sizes are approximate equivalent values. The actual cross-section in mm².
- 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 optimise 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 ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
10934	2 x 0,5	6,1	35,0	45,0	20
10935	3 G 0,5	6,4	42,0	55,0	20
10936	4 G 0,5	6,8	47,0	61,0	20
10937	5 G 0,5	7,5	56,0	74,0	20
10938	7 G 0,5	8,1	69,0	98,0	20
10939	12 G 0,5	10,4	108,0	157,0	20
10940	18 G 0,5	12,6	145,0	217,0	20
10941	25 G 0,5	14,5	240,0	314,0	20
10942	2 x 0,75	6,5	40,0	59,0	19
1094	3 G 0,75	6,8	52,0	66,0	19
10944	4 G 0,75	7,5	60,0	77,0	19
1094	5 G 0,75	8,1	71,0	93,0	19
10946	7 G 0,75	8,9	91,0	130,0	19
1094	12 G 0,75	11,6	142,0	202,0	19
10948	18 G 0,75	13,6	212,0	292,0	19
10949	25 G 0,75	15,9	281,0	415,0	19
1095	2 x 1	6,8	50,0	65,0	18
109	3 G 1	7,3	60,0	80,0	18
1095	4 G 1	7,8	71,0	98,0	18
10953	5 G 1	8,6	88,0	127,0	18
10954	7 G 1	9,3	111,0	158,0	18
10955	12 G 1	12,2	184,0	260,0	18
10956	18 G 1	14,5	260,0	380,0	18
10957	25 G 1	17,0	349,0	534,0	18

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
10958	2 x 1,5	7,6	63,0	88,0	16
10959	3 G 1,5	8,0	80,0	100,0	16
10960	4 G 1,5	8,8	97,0	126,0	16
10961	5 G 1,5	9,7	119,0	160,0	16
10962	7 G 1,5	10,4	147,0	208,0	16
10963	12 G 1,5	13,8	267,0	338,0	16
10964	18 G 1,5	16,4	374,0	479,0	16
10965	25 G 1,5	19,2	526,0	705,0	16
10966	2 x 2,5	9,0	96,0	130,0	14
10967	3 G 2,5	9,5	144,0	167,0	14
10968	4 G 2,5	10,4	148,0	195,0	14
10969	5 G 2,5	11,7	181,0	223,0	14
10970	7 G 2,5	12,8	255,0	344,0	14
10971	12 G 2,5	16,7	441,0	570,0	14
10972	18 G 2,5	19,8	570,0	681,0	14
10973	4 G 4	12,4	230,0	310,0	12
10974	5 G 4	13,7	273,0	385,0	12
10975	4 G 6	14,5	305,0	415,0	10
10976	5 G 6	16,0	439,0	509,0	10
10977	4 G 10	18,2	535,0	783,0	8
10978	4 G 16	20,9	740,0	880,0	6
10979	4 G 25	25,8	1140,0	1570,0	4
10980	4 G 35	29,1	1576,0	2070,0	2

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