

JZ-500 black

flexible, metermarking



HELUKABEL JZ-500 black 25G1,5QMM/10371 300/500V 0010917711 CE

Technical data

- Special-PVC control cable adapted to DIN VDE 0285-525-2-51 / DIN EN 50525-2-51
- **Temperature range**
flexing -15°C to +80°C
fixed installation -40°C to +80°C
- **Nominal voltage** U₀/U 300/500 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MΩm x km
- **Minimum bending radius**
flexing 7,5x cable Ø
fixed installation 4x cable Ø
- **Radiation resistance**
up to 80x10⁶ 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
- 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 GN-YE conductor
x = without GN-YE conductor (OZ)
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- screened analogue type:
JZ-500-C black

Application

These cables are used for flexible use for medium mechanical stresses with free movement without tensile stress or forced movements in dry, moist and 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.

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 app. mm | Cop. weight kg / km | Weight app. kg / km | AWG-No. |
|----------|--|-----------------|---------------------|---------------------|---------|
| 10340 | 2 x 0,5 | 4,8 | 9,6 | 40,0 | 20 |
| 10341 | 3 G 0,5 | 5,1 | 14,4 | 46,0 | 20 |
| 11630 | 3 x 0,5 | 5,1 | 14,4 | 46,0 | 20 |
| 10342 | 4 G 0,5 | 5,5 | 19,0 | 56,0 | 20 |
| 11631 | 4 x 0,5 | 5,5 | 19,0 | 56,0 | 20 |
| 10343 | 5 G 0,5 | 6,2 | 24,0 | 65,0 | 20 |
| 11632 | 5 x 0,5 | 6,2 | 24,0 | 65,0 | 20 |
| 10344 | 7 G 0,5 | 6,7 | 33,6 | 80,0 | 20 |
| 11633 | 7 x 0,5 | 6,7 | 33,6 | 80,0 | 20 |
| 10345 | 12 G 0,5 | 9,0 | 58,0 | 135,0 | 20 |
| 11634 | 12 x 0,5 | 9,0 | 58,0 | 135,0 | 20 |
| 10346 | 18 G 0,5 | 10,7 | 86,0 | 196,0 | 20 |
| 10347 | 25 G 0,5 | 12,6 | 120,0 | 270,0 | 20 |
| 10348 | 2 x 0,75 | 5,3 | 14,4 | 46,0 | 19 |
| 10349 | 3 G 0,75 | 5,6 | 21,6 | 54,0 | 19 |
| 11635 | 3 x 0,75 | 5,6 | 21,6 | 54,0 | 19 |
| 10350 | 4 G 0,75 | 6,3 | 28,8 | 66,0 | 19 |
| 11636 | 4 x 0,75 | 6,3 | 28,8 | 66,0 | 19 |
| 10351 | 5 G 0,75 | 6,9 | 36,0 | 80,0 | 19 |
| 11637 | 5 x 0,75 | 6,9 | 36,0 | 80,0 | 19 |
| 10352 | 7 G 0,75 | 7,7 | 50,0 | 110,0 | 19 |
| 11638 | 7 x 0,75 | 7,7 | 50,0 | 110,0 | 19 |
| 10353 | 12 G 0,75 | 10,0 | 86,0 | 179,0 | 19 |
| 11639 | 12 x 0,75 | 10,0 | 86,0 | 179,0 | 19 |
| 10354 | 18 G 0,75 | 12,2 | 130,0 | 257,0 | 19 |
| 10355 | 25 G 0,75 | 14,3 | 180,0 | 365,0 | 19 |
| 10356 | 2 x 1 | 5,6 | 19,2 | 60,0 | 18 |
| 10357 | 3 G 1 | 6,1 | 29,0 | 72,0 | 18 |
| 11640 | 3 x 1 | 6,1 | 29,0 | 72,0 | 18 |
| 10358 | 4 G 1 | 6,6 | 38,4 | 86,0 | 18 |
| 11641 | 4 x 1 | 6,6 | 38,4 | 86,0 | 18 |
| 10359 | 5 G 1 | 7,5 | 48,0 | 104,0 | 18 |
| 11642 | 5 x 1 | 7,5 | 48,0 | 104,0 | 18 |
| 10360 | 7 G 1 | 8,1 | 67,0 | 141,0 | 18 |
| 11643 | 7 x 1 | 8,1 | 67,0 | 141,0 | 18 |
| 10361 | 12 G 1 | 10,8 | 115,0 | 230,0 | 18 |
| 11644 | 12 x 1 | 10,8 | 115,0 | 230,0 | 18 |
| 10362 | 18 G 1 | 12,9 | 173,0 | 343,0 | 18 |

| Part no. | No. cores x cross-sec. mm ² | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km | AWG-No. |
|----------|--|-----------------|---------------------|---------------------|---------|
| 10363 | 25 G 1 | 15,4 | 240,0 | 485,0 | 18 |
| 10543 | 34 G 1 | 17,9 | 326,0 | 690,0 | 18 |
| 10364 | 2 x 1,5 | 6,4 | 29,0 | 70,0 | 16 |
| 10365 | 3 G 1,5 | 6,8 | 43,0 | 90,0 | 16 |
| 11645 | 3 x 1,5 | 6,8 | 43,0 | 90,0 | 16 |
| 10366 | 4 G 1,5 | 7,6 | 58,0 | 109,0 | 16 |
| 11646 | 4 x 1,5 | 7,6 | 58,0 | 109,0 | 16 |
| 10367 | 5 G 1,5 | 8,3 | 72,0 | 131,0 | 16 |
| 11647 | 5 x 1,5 | 8,3 | 72,0 | 131,0 | 16 |
| 10368 | 7 G 1,5 | 9,2 | 101,0 | 184,0 | 16 |
| 11648 | 7 x 1,5 | 9,2 | 101,0 | 184,0 | 16 |
| 10369 | 12 G 1,5 | 12,2 | 173,0 | 309,0 | 16 |
| 11649 | 12 x 1,5 | 12,2 | 173,0 | 309,0 | 16 |
| 10370 | 18 G 1,5 | 14,8 | 259,0 | 440,0 | 16 |
| 10371 | 25 G 1,5 | 17,6 | 360,0 | 620,0 | 16 |
| 10372 | 2 x 2,5 | 7,8 | 48,0 | 112,0 | 14 |
| 10373 | 3 G 2,5 | 8,3 | 72,0 | 148,0 | 14 |
| 11650 | 3 x 2,5 | 8,3 | 72,0 | 148,0 | 14 |
| 10374 | 4 G 2,5 | 9,2 | 96,0 | 178,0 | 14 |
| 11651 | 4 x 2,5 | 9,2 | 96,0 | 178,0 | 14 |
| 10375 | 5 G 2,5 | 10,1 | 120,0 | 221,0 | 14 |
| 11652 | 5 x 2,5 | 10,1 | 120,0 | 221,0 | 14 |
| 10376 | 7 G 2,5 | 11,2 | 168,0 | 306,0 | 14 |
| 11653 | 7 x 2,5 | 11,2 | 168,0 | 306,0 | 14 |
| 10377 | 12 G 2,5 | 15,1 | 288,0 | 498,0 | 14 |
| 11654 | 12 x 2,5 | 15,1 | 288,0 | 498,0 | 14 |
| 10378 | 18 G 2,5 | 18,2 | 432,0 | 764,0 | 14 |
| 10379 | 25 G 2,5 | 21,6 | 600,0 | 1044,0 | 14 |
| 10380 | 4 G 4 | 10,8 | 154,0 | 295,0 | 12 |
| 10381 | 5 G 4 | 12,1 | 192,0 | 361,0 | 12 |
| 10382 | 4 G 6 | 13,2 | 230,0 | 424,0 | 10 |
| 10383 | 5 G 6 | 14,7 | 288,0 | 525,0 | 10 |
| 10384 | 4 G 10 | 16,4 | 384,0 | 701,0 | 8 |
| 10388 | 5 G 10 | 18,3 | 480,0 | 909,0 | 8 |
| 10385 | 4 G 16 | 20,4 | 614,0 | 1035,0 | 6 |
| 10386 | 4 G 25 | 25,1 | 960,0 | 1582,0 | 4 |
| 10387 | 4 G 35 | 27,9 | 1344,0 | 2105,0 | 2 |

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