



Technical data

- Special PVC-sheath flexible cord as per Italian standard CEI 20-22 II
- **Temperature range**
flexing -5°C to +70°C
fixed installation -35°C to +70°C
- **Nominal voltage**
U₀/U 300/500 V = 1 mm²
U₀/U 450/750 V = 1,5 mm² and above
- **Test voltage** 2000 V
- **Insulation resistance**
min. 20 MΩm x km
- **Radiation resistance**
up to 80x10⁶ cJ/kg (80 Mrad)
- **Minimum bending radius**
approx. 10x cable Ø

Cable structure

- Bare copper conductor, fine wire stranded to CEI 20-29 cl. 5
- Special PVC compound Mi R 2
- Colour coded up and to 4 cores to HELUKABEL®-JB colour code see Technical Informations
- As of 5 cores black with continuous white number printing
- Green-yellow earth core
- Cores stranded in layers with optimal lay-length
- Special PVC outer sheath
- Sheath colour grey, similar to RAL 7035, with printing CEI 20-22 II

Properties

- Oil- and petrol resistant as per CEI 20-22 II
- **Conditionally resistant to**
Oil
Solvents
Acids
Lyes
- PVC self-extinguishing and flame retardant, test methods analog to IEC 60332-3
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

- G = with green-yellow earth core.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

Well known companies (FIAT, COMAU, etc.) use this cable for measurement and control purposes on machine tools and conveyors, as well as on production lines in equipment production and for special mechanical engineering. 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 but not suitable for open air. Due to special conductor insulation- and sheath compound, this cable is flame resistant in case of fire and self-extinguishing. The good oil- and petrol resistance allows the usage of this cable also in problem areas.

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

| Part No. | No.cores x cross-sec. mm ² | Outer ø app. mm | Cop. weight kg / km | Weight app. kg / km | AWG-No. |
|----------|---------------------------------------|-----------------|---------------------|---------------------|---------|
| 60250 | 3 G 1 | 8,5 | 29,0 | 85,0 | 17 |
| 60251 | 4 G 1 | 9,5 | 39,0 | 100,0 | 17 |
| 60252 | 5 G 1 | 10,5 | 48,0 | 123,0 | 17 |
| 60253 | 7 G 1 | 10,8 | 67,0 | 160,0 | 17 |
| 60254 | 12 G 1 | 13,8 | 115,0 | 270,0 | 17 |
| 60255 | 18 G 1 | 16,5 | 173,0 | 380,0 | 17 |
| 60256 | 25 G 1 | 19,5 | 240,0 | 500,0 | 17 |
| 60284 | 27 G 1 | 20,0 | 259,0 | 560,0 | 17 |
| 60285 | 33 G 1 | 20,8 | 317,0 | 700,0 | 17 |
| 60257 | 34 G 1 | 21,0 | 326,0 | 720,0 | 17 |
| 60258 | 42 G 1 | 23,3 | 405,0 | 800,0 | 17 |
| 60259 | 50 G 1 | 25,0 | 480,0 | 1050,0 | 17 |
| 60260 | 3 G 1,5 | 9,6 | 43,0 | 105,0 | 16 |
| 60261 | 4 G 1,5 | 11,0 | 58,0 | 150,0 | 16 |
| 60262 | 5 G 1,5 | 12,0 | 72,0 | 190,0 | 16 |
| 60263 | 7 G 1,5 | 12,5 | 101,0 | 220,0 | 16 |
| 60264 | 12 G 1,5 | 16,0 | 173,0 | 350,0 | 16 |
| 60265 | 18 G 1,5 | 18,8 | 259,0 | 515,0 | 16 |
| 60266 | 25 G 1,5 | 23,0 | 360,0 | 705,0 | 16 |
| 60267 | 34 G 1,5 | 26,0 | 490,0 | 990,0 | 16 |
| 60286 | 37 G 1,5 | 26,5 | 533,0 | 1005,0 | 16 |
| 60268 | 42 G 1,5 | 29,5 | 605,0 | 1080,0 | 16 |
| 60269 | 50 G 1,5 | 30,5 | 720,0 | 1330,0 | 16 |

| Part No. | No.cores x cross-sec. mm ² | Outer ø app. mm | Cop. weight kg / km | Weight app. kg / km | AWG-No. |
|----------|---------------------------------------|-----------------|---------------------|---------------------|---------|
| 60287 | 3 G 2,5 | 11,3 | 72,0 | 190,0 | 14 |
| 60270 | 4 G 2,5 | 12,3 | 96,0 | 215,0 | 14 |
| 60271 | 5 G 2,5 | 12,6 | 120,0 | 270,0 | 14 |
| 60272 | 7 G 2,5 | 14,5 | 168,0 | 350,0 | 14 |
| 60273 | 12 G 2,5 | 18,0 | 288,0 | 550,0 | 14 |
| 60274 | 4 G 4 | 14,0 | 154,0 | 300,0 | 12 |
| 60275 | 7 G 4 | 16,0 | 269,0 | 500,0 | 12 |
| 60276 | 4 G 6 | 16,0 | 230,0 | 430,0 | 10 |
| 60277 | 4 G 10 | 19,0 | 384,0 | 700,0 | 8 |
| 60278 | 4 G 16 | 23,0 | 614,0 | 1000,0 | 6 |
| 60279 | 4 G 25 | 28,0 | 960,0 | 1550,0 | 4 |
| 60280 | 4 G 35 | 31,0 | 1344,0 | 2070,0 | 2 |
| 60281 | 4 G 50 | 37,0 | 1920,0 | 2850,0 | 1 |
| 60282 | 4 G 70 | 43,0 | 2688,0 | 4000,0 | 2/0 |
| 60283 | 4 G 95 | 50,0 | 3648,0 | 5400,0 | 3/0 |

Dimensions and specifications may be changed without prior notice. (RN01)