# Automobile Wire - ISO 6722

**Road vehicles , 60 V and 600 V single-core cables** :

Scope :

This International Standard specifies the dimensions, test methods, and requirements for single-core 60 V .Cables intended for use in road vehicle applications where the nominal system voltage is u (60 V d.c. or 25 V a.c.).

These wire are classified in two different categories :

A- Insulation temperature class (Eight class from A to H)

B- Insulation wall thickness (Three class from Thick to Ultra-thin)

Eight temperature classes are defined :

| Class | Temperature |
|---|---|
| A | - 40 °C to 85 °C |
| B | – 40 °C to 100 °C |
| C | - 40 °C to 125 °C |
| D | - 40 °C to 150 °C |
| E | - 40 °C to 175 °C |
| F | - 40 °C to 200 °C |
| G | -40 °C to 225 °C |
| H | - 40 °C to 250 °C |

| ISO conductor | | Thick wall | | | Thin wall | | | Ultra-thin wall | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Size | Diameter | Insulation thickness | | Outside cable diameter | Insulation thickness | | Outside cable diameter | Insulation thickness | | Outside cable diameter |
| $mm^2$ | mm | mm | | mm | mm | | mm | mm | | mm |
| | max. | nominal | min. | max. | nominal | min. | max. | nominal | min. | max. |
| **0.13** | 0.55 | — | — | — | 0.25 | 0.2 | 1.05 | 0.2 | 0.16 | 0.95 |
| **0.22** | 0.7 | — | — | — | 0.25 | 0.2 | 1.2 | 0.2 | 0.16 | 1.05 |
| **0.35** | 0.9 | — | — | — | 0.25 | 0.2 | 1.40 a | 0.2 | 0.16 | 1.2 |
| **0.5** | 1.1 | 0.6 | 0.48 | 2.3 | 0.28 | 0.22 | 1.6 | 0.2 | 0.16 | 1.4 |
| **0.75** | 1.3 | 0.6 | 0.48 | 2.5 | 0.3 | 0.24 | 1.9 | 0.2 | 0.16 | 1.6 |
| **1** | 1.5 | 0.6 | 0.48 | 2.7 | 0.3 | 0.24 | 2.1 | 0.2 | 0.16 | 1.75 |
| **1.5** | 1.8 | 0.6 | 0.48 | 3 | 0.3 | 0.24 | 2.4 | 0.2 | 0.16 | 2.1 |
| **2** | 2 | 0.6 | 0.48 | 3.3 | 0.35 | 0.28 | 2.8 | 0.25 | 0.2 | 2.4 |
| **2.5** | 2.2 | 0.7 | 0.56 | 3.6 | 0.35 | 0.28 | 3 | 0.25 | 0.2 | 2.7 |
| **3** | 2.4 | 0.7 | 0.56 | 4.1 | 0.4 | 0.32 | 3.4 | — | — | — |
| **4** | 2.8 | 0.8 | 0.64 | 4.4 | 0.4 | 0.32 | 3.7 | — | — | — |
| **5** | 3.1 | 0.8 | 0.64 | 4.9 | 0.4 | 0.32 | 4.2 | — | — | — |
| **6** | 3.4 | 0.8 | 0.64 | 5 | 0.4 | 0.32 | 4.3 | — | — | — |
| **10** | 4.5 | 1 | 0.8 | 6.5 | 0.6 | 0.48 | 6 | — | — | — |
| **16** | 6.3 | 1 | 0.8 | 8.3 | 0.65 | 0.52 | 7.9 | — | — | — |
| **25** | 7.8 | 1.3 | 1.04 | 10.4 | 0.65 | 0.52 | 9.4 | — | — | — |
| **35** | 9 | 1.3 | 1.04 | 11.6 | — | — | — | — | — | — |
| **50** | 10.5 | 1.5 | 1.2 | 13.5 | — | — | — | — | — | — |
| **70** | 12.5 | 1.5 | 1.2 | 15.5 | — | — | — | — | — | — |
| **95** | 14.8 | 1.6 | 1.28 | 18 | — | — | — | — | — | — |
| **120** | 16.5 | 1.6 | 1.28 | 19.7 | — | — | — | — | — | — |