

# High Temperature Silicone Wire



## Construction

**Conductor:** Tinned Oxygen Free Copper (99.99% OFC)

**Insulation:** Silicone Rubber

**Sheath:** Silicone

**Color:** Red/Yellow /Blue/White/Black/Yellow/Green/Brow/Orange/  
Purple as your request

## Applications

It is ideally suited for internal wiring in heating appliances, electric motors, and industrial machinery where resistance to thermal shock, oils, and chemical agents is critical. Common applications include household appliances (white goods), lighting fixtures, automotive sensor wiring, and robotic systems requiring durability under continuous flexing.

## Standards

UL758

UL3239

UL3530

UL4476

UL62



## Specification

|                             |                             |
|-----------------------------|-----------------------------|
| Nominal temperature ratings | -60°C to 200°C              |
| Rated voltage               | 600V                        |
| Size                        | 10AWG-36AWG                 |
| Minimum Bending Radius      | 4x overall diameter (fixed) |

## Technical Data

| Specifications | Conductor              |                           | Insulation               |                     | Cable weight appr. | Max. resistance |
|----------------|------------------------|---------------------------|--------------------------|---------------------|--------------------|-----------------|
| (AWG)          | size(mm <sup>2</sup> ) | Construction No./dia.(mm) | Insulation Thickness(mm) | Outer Diameter (mm) | (kg/km)            | ( /KM,20 )      |
| 36             | 0.013                  | 7/0.06                    | 0.4                      | 1.2                 | 3.5                | 1340            |
| 34             | 0.025                  | 7/0.08                    | 0.4                      | 1.5                 | 5.8                | 689             |
| 30             | 0.051                  | 7/0.12                    | 0.5                      | 2.0                 | 12.2               | 338             |
| 28             | 0.081                  | 7/0.16                    | 0.5                      | 2.3                 | 19.0               | 213             |
| 26             | 0.129                  | 7/0.20                    | 0.6                      | 2.8                 | 30.5               | 134             |
| 24             | 0.205                  | 19/0.16                   | 0.6                      | 3.2                 | 48.0               | 84.1            |
| 22             | 0.326                  | 19/0.20                   | 0.7                      | 3.9                 | 76.0               | 52.9            |
| 20             | 0.518                  | 19/0.26                   | 0.8                      | 4.5                 | 121                | 33.3            |
| 18             | 0.823                  | 19/0.32                   | 0.9                      | 5.4                 | 192                | 21.0            |
| 16             | 1.31                   | 37/0.26                   | 1.0                      | 6.5                 | 305                | 13.2            |
| 14             | 2.08                   | 37/0.32                   | 1.2                      | 8.0                 | 485                | 8.29            |
| 12             | 3.31                   | 61/0.32                   | 1.4                      | 9.8                 | 770                | 5.21            |
| 10             | 5.26                   | 91/0.32                   | 1.6                      | 12.5                | 1220               | 3.28            |