

CHARACTER:

1.Physical performance

- a、Good mechanical properties
- b、Good resistance to high temperature, low temperature resistance
- c、Good flame retardancy
- d、Good corrosion resistance
- e、Good resistance to climate
- f、Good lubricity (small friction coefficient)
- g、Excellent resistance to radiation
- h、Good resistance to twists
- i、Good resistance to cracking

2.Electrical Properties

- a、Electrical insulation good
- b、Has the very high resistivity

3.Processing properties

- a、Use half extrusion processing
- b、Good wire processing performance
- c、In the process of wire processing good compatibility
- d、According to UL standard design

4.Environmental protection

- a、ROHS/REACH compliant
- b、nonhazardous

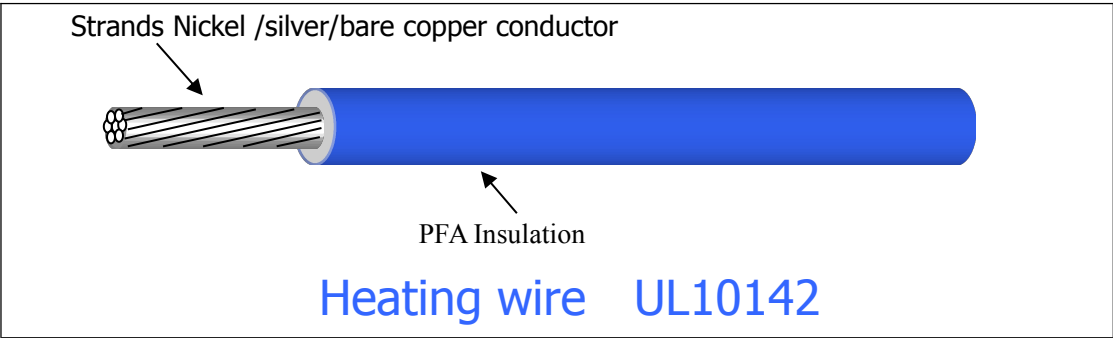
SHOULD BE USED:

Heating wire

REFERENCE:

UL758-2010、UL1581-2009

Outline:



**Wire structure description:**  
Conductor: Nickel /silver/bare copper conductor;  
Insulation materials: PFA Insulation

| Conductor temperature not over 250℃ PFA insulated wire |                 |                                            |                                          |                       |                                 |      |                             |       |
|--------------------------------------------------------|-----------------|--------------------------------------------|------------------------------------------|-----------------------|---------------------------------|------|-----------------------------|-------|
| Rated temperature: 250℃ rated voltage: 600V            |                 |                                            |                                          |                       |                                 |      |                             |       |
| STYLE                                                  | standard<br>AWG | Conductor<br>size<br>(No./ mm)<br>±0.005mm | Conductor<br>resistance<br>20℃<br>(Ω/Km) | Conductor<br>Dia.(mm) | insulation<br>thickness<br>(mm) |      | Overall<br>diameter<br>(mm) |       |
|                                                        |                 |                                            |                                          |                       | Nom.                            | Min. | Mon                         | Tol   |
| 10142                                                  | 10              | 37/0.42                                    | 3.54                                     | 2.94                  | 0.56                            | 0.51 | 4.06                        | ±0.15 |
|                                                        | 12              | 37/0.374                                   | 5.64                                     | 2.62                  | 0.56                            | 0.51 | 3.74                        | ±0.15 |
|                                                        | 14              | 19/0.361                                   | 8.96                                     | 1.85                  | 0.56                            | 0.51 | 3.00                        | ±0.15 |
|                                                        | 16              | 19/0.287                                   | 14.60                                    | 1.50                  | 0.56                            | 0.51 | 2.65                        | ±0.10 |
|                                                        | 18              | 19/0.235                                   | 23.20                                    | 1.18                  | 0.56                            | 0.51 | 2.30                        | ±0.10 |
|                                                        | 20              | 19/0.19                                    | 36.70                                    | 0.95                  | 0.56                            | 0.51 | 2.07                        | ±0.10 |
|                                                        | 22              | 19/0.15                                    | 59.40                                    | 0.76                  | 0.56                            | 0.51 | 1.88                        | ±0.10 |
|                                                        | 24              | 7/0.20                                     | 94.20                                    | 0.61                  | 0.56                            | 0.51 | 1.75                        | ±0.10 |

**Marking:** E211048 AWM STYLE 10142 NO.AWG 250℃ 600V VW-1 PFA QIFURUI-LF-

SAE COLOR SERIES

| * STOCK COLOR CHART |          |         |           |            |
|---------------------|----------|---------|-----------|------------|
| 00-BLACK            | 01-WHITE | 02-RED  | 03-YELLOW | 04-GREEN   |
| 05-BLUE             | 06-BROWN | 07-GREY | 08-ORANGE | 09- VIOLET |

PACKAGE

| *PACKAGE                                                   |                                           |                                            |                                            |                                                                                       |
|------------------------------------------------------------|-------------------------------------------|--------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------|
| Part No.                                                   | Packing- FT/roll                          |                                            |                                            |  |
| 10AWG                                                      | <input checked="" type="checkbox"/> 500Ft | <input type="checkbox"/> 1000Ft            | <input type="checkbox"/> 2000Ft            |                                                                                       |
| 12~20AWG                                                   | <input type="checkbox"/> 500Ft            | <input checked="" type="checkbox"/> 1000Ft | <input type="checkbox"/> 2000Ft            |                                                                                       |
| 22-30AWG                                                   | <input type="checkbox"/> 500Ft            | <input type="checkbox"/> 1000Ft            | <input checked="" type="checkbox"/> 2000Ft |                                                                                       |
| According to customer requirements for packaging packaging |                                           |                                            |                                            |                                                                                       |