

**Characteristic:**

**1. Physical properties**

**a. excellent mechanical properties:**

Tensile strength ≥ 20.7MPa, elongation at break ≥ 200%

After aging:

Condition: 260 ± 1.0°C / 96H

Tensile strength residual rate ≥ 85%, elongation at break ≥ 85%

**b. Flame retardancy:** VW-1, vertical combustion, burning 5 times, each time 15S, any residual flame is not more than 60S.

**c. Low temperature bending:** -10°C ± 2°C / 4H, no crack on the surface of the sample is qualified

**2. Electrical performance**

a. rated temperature: 105°C rated voltage: 125V

b. Spark test: When passing through the test electrode, no breakdown occurs. Spark test voltage is 1500V

c. dielectric withstand voltage: 1.0KV, 60 seconds without breakdown

**3. Processing performance**

a. suitable for all conventional wire harness processing

b. If you have special needs, please let us know.

**4. Environmental protection**

a. in line with ROHS/REACH

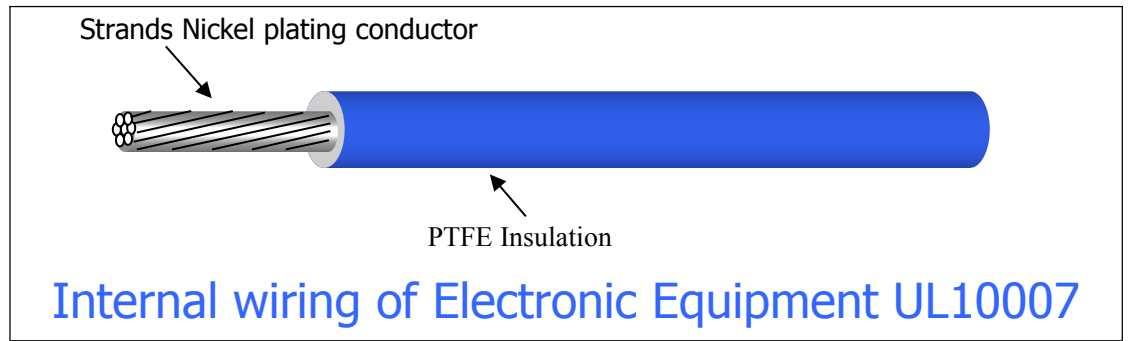
**application:**

Internal wiring of electronic devices, used for areas that are not susceptible to mechanical damage.

**Guideline:**

UL758, UL1581

**Overview:**



**Wire structure description:**

Conductor: Nickel plating conductor;  
Insulation materials: PTFE Insulation

Conductor temperature not over 150°C PTFE insulated wire  
Rated temperature: 150°C rated voltage: 125V

STYLE	standard AWG	Conductor size (No./mm) ±0.005mm	Conductor resistance 20°C (Ω/Km)	Conductor Dia.(mm)	insulation thickness (mm)		Overall diameter (mm)	
					Nom.	Min.	Mon.	Tol.
10007	10	37/0.42	3.54	2.95	0.33	0.30	3.61	±0.10
	12	37/0.374	5.64	2.63	0.33	0.30	3.29	±0.10
	14	19/0.361	8.96	1.82	0.33	0.30	2.48	±0.10
	16	19/0.287	14.60	1.44	0.20	0.18	1.84	±0.10
	18	19/0.235	23.20	1.18	0.20	0.18	1.58	±0.10
	20	19/0.19	36.70	0.95	0.15	0.13	1.25	±0.10
	22	19/0.15	59.40	0.76	0.15	0.13	1.06	±0.10
	24	7/0.20	94.20	0.60	0.15	0.13	0.90	±0.10
	26	7/0.16	150.00	0.48	0.15	0.13	0.78	±0.10
	28	7/0.127	239.00	0.38	0.15	0.13	0.68	±0.10
30	1/0.254	361.00	0.254	0.15	0.13	0.56	±0.10	

**Marking:** E211048 AWM STYLE 10007 NO.AWG 150°C 125V VW-1 PTFE 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	■ 500Ft	□ 1000Ft	□ 2000Ft
12~20AWG	□ 500Ft	■ 1000Ft	□ 2000Ft
22-30AWG	□ 500Ft	□ 1000Ft	■ 2000Ft

According to customer requirements for packaging packaging