

**Characteristic:**

**1.Physical properties**

**a、 excellent mechanical properties:**

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

After aging:

Condition: 260±1.0℃/ 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℃±2℃/4H, no crack on the surface of the sample is qualified

**2. Electrical performance**

a、 rated temperature: 105℃ 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:**

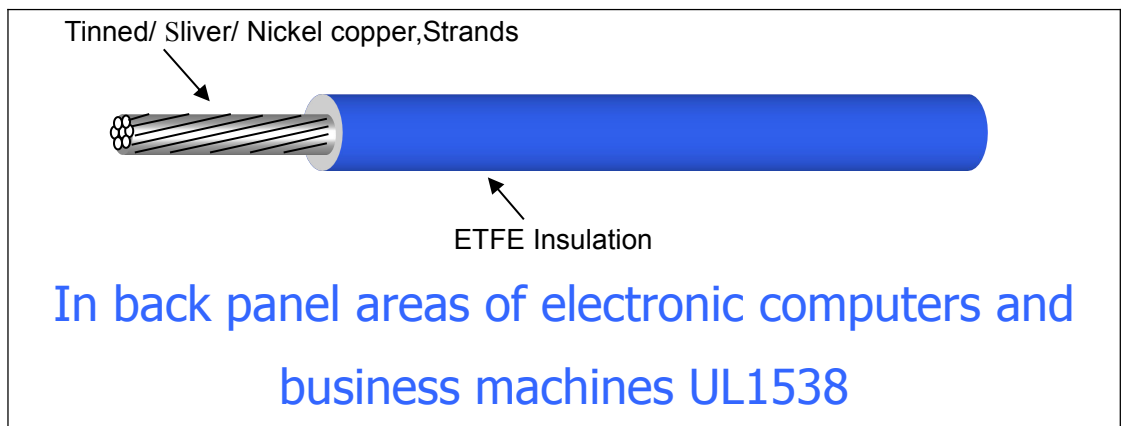
Appliances with internal

**Guideline:**

UL758、 UL1581

**Overview:**

Install electric wires inside to prevent sharp bends under impact and high temperature



**Wire structure description:**

Conductor: Tinned/ Sliver/ Nickel copper, Strands

Insulation materials: PTFE Insulation

Internal wiring, Conductor temperature not over 105℃ PTFE insulated wire  
Rated temperature: 105℃ rated voltage: 125V

STYLE	standard AWG	Conductor size (No./ mm) ±0.005mm	Conductor resistance 20℃ (Ω/Km)	Conductor Dia.(mm)	insulation thickness (mm)		Overall diameter (mm)	
					Nom.	Min.	Mon.	Tol.
1538	10	37/0.42	3.54	2.94	0.33	0.30	3.60	±0.15
	12	37/0.374	5.64	2.62	0.33	0.30	3.28	±0.15
	14	19/0.361	8.96	1.85	0.33	0.30	2.50	±0.10
	16	19/0.287	14.60	1.45	0.20	0.18	1.85	±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	0.14	0.12	1.25	±0.10
	22	19/0.15	59.40	0.75	0.14	0.12	1.05	±0.10
	24	7/0.20	94.20	0.60	0.14	0.12	0.88	±0.10
	26	7/0.16	150.00	0.50	0.14	0.12	0.78	±0.10
	28	7/0.127	239.00	0.40	0.14	0.12	0.68	±0.10
30	1/0.254	361.00	0.254	0.14	0.12	0.53	±0.10	

**Marking:** E211048 AWM STYLE 1538 NO.AWG 105℃ 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			3F
10AWG	■ 500Ft	□ 1000Ft	□ 2000Ft	
12~20AWG	□ 500Ft	■ 1000Ft	□ 2000Ft	
22-30AWG	□ 500Ft	□ 1000Ft	■ 2000Ft	

According to customer requirements for packaging packaging