

**Characteristic:**

**1.Physical properties**

**a、 excellent mechanical properties:**

Tensile strength≥34.5MPa, elongation at break≥100%

After aging:

Condition: 180±1.0℃/ 168H

Tensile strength residual rate≥85% elongation at break≥75%

**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. 2.Electrical performance**

a、 rated temperature: 150℃ rated voltage: 300V

b、 Spark test: When passing through the test electrode, no breakdown occurs. Spark test voltage is 3000V

c、 dielectric withstand voltage: 2.0KV , 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:**

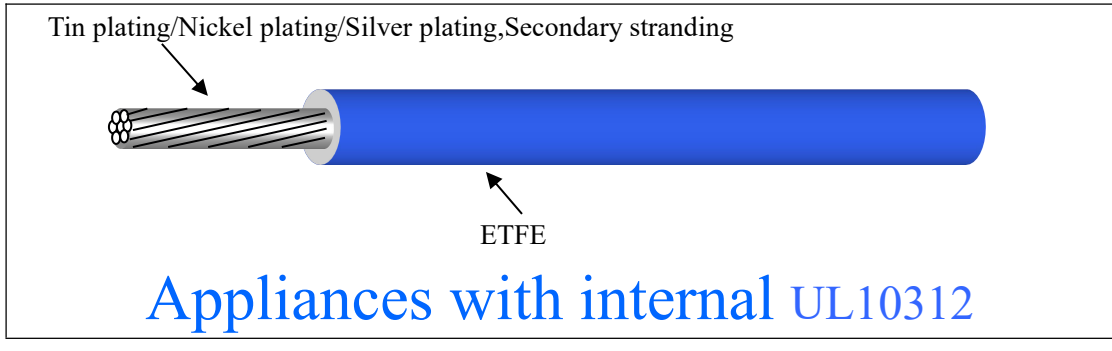
Appliances with internal

**Guideline:**

UL758-2014、 UL1581-2009

**Overview:**

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



**Structure description:**  
 Conductor structure: Tin plating/Nickel plating/Silver plating,Secondary stranding  
 Insulation material:ETFE

Conductor temperature not over 150℃ ETFE insulated wire  
 rated temperature: 150℃ rated voltage: 300V

STYLE	standard AWG	Conductor size (No./ mm) ±0.005mm	Conductor resistance 20℃ (Ω/Km)	Conductor Dia.(m m)	insulation thickness (mm)		Overall diameter (mm)	
					Nom.	Min.	Nom.	Tole.
10312	10	37/0.42	3.54	2.94	0.40	0.33	3.74	±0.15
	12	19/0.5	5.54	2.5	0.40	0.33	3.30	±0.15
	14	19/0.374	8.96	1.88	0.40	0.33	2.68	±0.10
	16	19/0.287	14.60	1.44	0.25	0.23	1.94	±0.10
	18	19/0.235	23.20	1.18	0.25	0.23	1.68	±0.10
	20	19/0.19	36.70	0.95	0.25	0.23	1.45	±0.10
	22	19/0.15	59.40	0.76	0.25	0.23	1.26	±0.10
	22	1/0.65	56.4	0.65	0.25	0.23	1.15	±0.10
	24	7/0.20	94.20	0.60	0.25	0.23	1.10	±0.10
	26	7/0.16	150.00	0.50	0.25	0.23	1.00	±0.10
	28	7/0.127	239.00	0.38	0.25	0.23	0.88	±0.10
	30	7/0.10	381.00	0.30	0.25	0.23	0.80	±0.10

**Sign:**  
 1、 Printing: E211048 AWM STYLE 10312 NO.AWG 150℃ 300V VW-1 ETFE QIFURUI -LF-  
 2、 Label identification: manufacturer, model, specification, rated temperature resistance,rated withstand voltage, insulation material, color, package length,Production Date

**3Fproduct code:**  
 E.g: 103121200-19  
 UL10312, 12AWG, black, 19/0.5, Tin plating

**SAE 色板**

*顏色表				
00-黑色	01-白色	02-红色	03-黄色	04-绿色
05-藍色	06-棕色	07-灰色	08-橙色	09-紫色

**PACKAGE**

*PACKAGE			
Part No.	Packing- FT/roll		
10-12AWG	<input checked="" type="checkbox"/> 500Ft	<input type="checkbox"/> 1000Ft	<input type="checkbox"/> 2000Ft
14~20AWG	<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

Serial number	change content	confirm	date	prepared by	Chen Li
A/0	First release	Jin Biao	2019.09.12	Review	Zhang Heng
				Approve	
				Date of preparation	2019.09.12