

CHARACTER:

1. Physical performance

a. excellent mechanical properties:

Tensile strength ≥ 13.8MPa, elongation at break ≥ 200%

After aging:

Condition: 232 ± 1.0°C / 168H

Tensile strength residual rate ≥ 85% elongation at break ≥ 80%

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 Properties

a. rated temperature: 200°C rated voltage: 300V

b. Spark test: When passing through the test electrode, no breakdown occurs. Spark test voltage is 3KV

c. dielectric withstand voltage: 2.0KV, 60 seconds without breakdown

3. Processing properties

a. Using the Half extrusion processing

b. Can be twisted pair and multi-core

c. According to UL standard design

4. Environmental protection

a. ROHS/REACH compliant

b. Low smoke

SHOULD BE USED:

Internal wiring of appliances and electronic equipment.

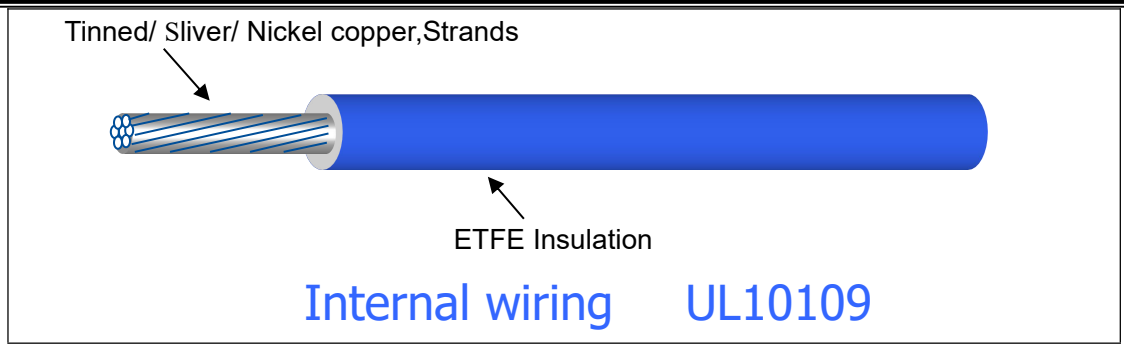
REFERENCE:

UL758-2010、UL1581-2009

Outline:

3F product code:

E.g: 101092000-19
UL10109, 20AWG, black, 19/0.19, Tinned-plated



Wire structure description:
 Conductor: Tinned/ Sliver/ Nickel copper, Strands
 Insulation materials: ETFE Insulation

Conductor temperature not over 200°C ETFE insulated wire
 Rated temperature: 200°C rated voltage: 300V

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
10109	10	37/0.42	3.54	2.94	0.30	0.27	3.54	±0.15
	12	37/0.374	5.64	2.62	0.30	0.27	3.22	±0.15
	12	19/0.5	5.64	2.52	0.30	0.27	3.12	±0.10
	14	19/0.361	8.96	1.85	0.30	0.27	2.41	±0.10
	16	19/0.287	14.60	1.50	0.30	0.27	2.04	±0.10
	18	19/0.235	23.20	1.18	0.16	0.13	1.50	±0.10
	20	19/0.19	36.70	0.95	0.16	0.13	1.27	±0.10
	22	19/0.15	59.40	0.76	0.16	0.13	1.08	±0.10
	22	7/0.254	59.40	0.76	0.16	0.13	1.08	±0.10
	24	11/0.16	94.2	0.61	0.16	0.13	0.93	±0.10
	24	1/0.51	89.30	0.51	0.16	0.13	0.83	±0.10
	24	7/0.20	94.20	0.61	0.16	0.13	0.93	±0.10
	26	7/0.16	150.00	0.48	0.16	0.13	0.80	±0.10
	26	19/0.1	150.00	0.50	0.16	0.13	0.80	±0.10
	28	7/0.127	239.00	0.38	0.16	0.13	0.70	±0.10
	30	1/0.254	361.00	0.254	0.16	0.13	0.58	±0.10
30	7/0.10	381.00	0.31	0.16	0.13	0.63	±0.10	

Marking: E211048 AWM STYLE 10109 NO.AWG 200°C 300V VW-1 ETFE 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