

**characteristic:**

**1. Physical properties**

a. excellent mechanical properties:

**XLPE Physical properties of the insulation**

Tensile strength ≥ 13.8MPa, elongation at break ≥ 300%

After aging:

Condition: 158 ± 1.0°C / 168H

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

**XLPVDF Insulation**

Tensile strength ≥ 25.2MPa, elongation at break ≥ 110%

After aging:

Condition: 158 ± 1.0°C / 168H

Tensile strength residual rate ≥ 90% elongation at break ≥ 75%

b. **Flame retardancy:** FT2, horizontal burning, burning once, 30S each time, no particles or droplets igniting the cotton layer can be emitted on the sample during the test. VW-1, vertical combustion, burning 5 times, each time 15S, any residual flame is not more than 60S

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

**2. Electrical performance**

a. rated temperature: 125°C

b. Spark test: When passing through the test electrode, no breakdown occurs. Spark test voltage is 6000V

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:**

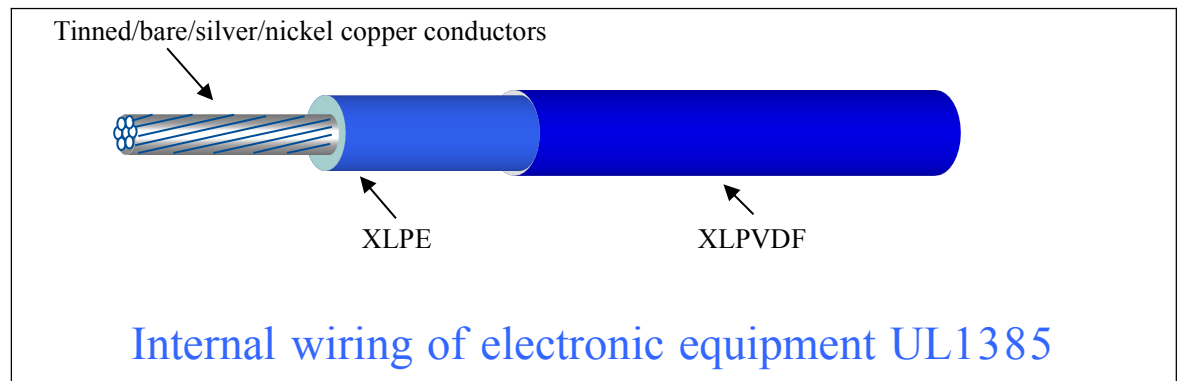
Internal wiring of electronic equipment

**Guideline:**

UL758/UL1581

**Overview:**

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



**Wire structure description:**

Conductor: Tinned/bare/silver/nickel copper conductors

Insulation: XLPE

Covering: XLPVDF

Internal wiring. Conductor temperature not over 125°C XLPE Insulation  
Rated temperature: 125°C Voltage is recommended ≤ 600V

STYLE	standard AWG	Conductor size (No./mm) ±0.005mm	Conductor resistance 20°C (Ω/Km)	Conductor Dia. (mm)	insulation thickness (mm)		First layer completed outer diameter (mm)		Covering thickness (mm)		Second layer completed outer diameter (mm)	
					Nom.	Min.	Mon	Tol	Nom	Min	Mon	Tol
1385	16	19/0.287	14.6	1.45	0.15	0.06	1.74	±0.10	0.10	0.06	1.94	±0.10
	18	19/0.235	23.2	1.18	0.15	0.06	1.48	±0.10	0.10	0.06	1.68	±0.10
	20	19/0.19	36.7	0.95	0.15	0.06	1.26	±0.10	0.10	0.06	1.46	±0.10
	22	19/0.15	59.4	0.76	0.15	0.06	1.06	±0.10	0.10	0.06	1.26	±0.10
	24	7/0.20	94.2	0.61	0.15	0.06	0.91	±0.10	0.10	0.06	1.11	±0.10
	26	7/0.16	150	0.49	0.15	0.06	0.79	±0.10	0.10	0.06	0.99	±0.10
	28	7/0.127	239	0.39	0.15	0.06	0.69	±0.10	0.10	0.06	0.89	±0.10

**Sign:**

1. **Marking:** E211048 AWM STYLE 1385 NO.AWG 125°C XLPE+XLPVDF QIFURUI  
 c. AWM I A 125°C FT2 -LF-  
 OR: E211048 AWM STYLE 1385 NO.AWG 125°C VW-1 XLPE+XLPVDF QIFURUI c. AWM I A 125°C FT2 -LF-

2. Tag identification: manufacturer, model, specifications, rated temperature resistance, rated pressure resistance, insulation material, color, packaging length, production date.

**3F product code:**

E.g: 13851600-19
UL1385, 16AWG, black, 19/0.287, Tin plating

**SAE COLOR SERIES**

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

**PACKAGE**

*PACKAG				
Part No.	Packing- FT/roll			
16AWG	<input type="checkbox"/> 250Ft	<input type="checkbox"/> 500Ft	<input checked="" type="checkbox"/> 1000Ft	<input type="checkbox"/> 2000Ft
18~28AWG	<input type="checkbox"/> 250Ft	<input type="checkbox"/> 500Ft	<input type="checkbox"/> 1000Ft	<input checked="" type="checkbox"/> 2000Ft

According to customer requirements for packaging

