

**characteristic:**

**1.Physical properties**

a, excellent mechanical properties:  
 Tensile strength  $\geq 13.8\text{MPa}$ , elongation at break  $\geq 300\%$   
 After aging:  
 Condition:  $158 \pm 1.0^\circ\text{C} / 168\text{H}$   
 Tensile strength residual rate  $\geq 80\%$ , elongation at break,  $\geq 80\%$

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.

c. Low temperature bending:  $-10^\circ\text{C} \pm 2^\circ\text{C} / 4\text{H}$ , no crack on the surface of the sample is qualified

**2. Electrical performance**

a, rated temperature:  $125^\circ\text{C}$  rated voltage: 3KV AC  
 b. Spark test: When passing through the test electrode, no breakdown occurs. Spark test voltage is 10 KV AC  
 c, dielectric withstand voltage: 7.0 KV AC, 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:**

UL758-2014、UL1581-2014

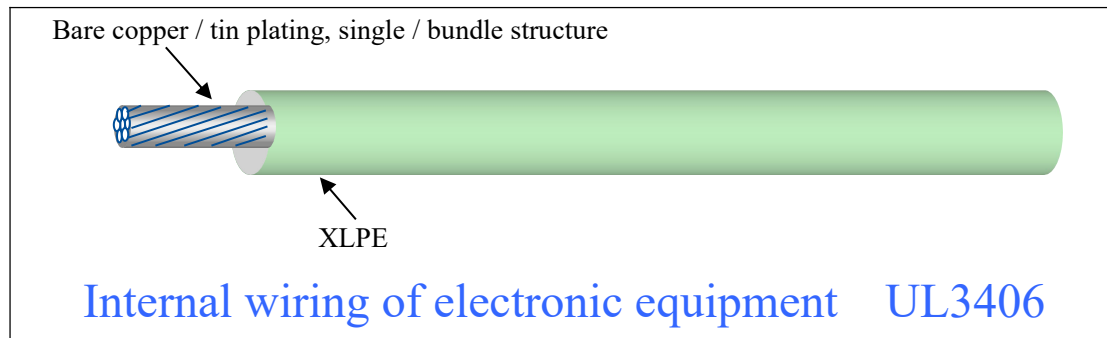
**Overview:**

Internal wiring of electronic equipment to prevent impact and sharp corner bending at high temperatures

**3Fproduct code:**

E.g: 34061800-16
UL3406, 18AWG, black, 16/0.254, Tin plating

Change history	Serial number	change content	confirm	date	prepared by	Zhang Heng
	A/0	First release	Jin Biao	2018.12.04	Review	Chen Li
					Approve	
				Date of preparation		2018.12.04



**Structure description:**

Conductor structure: bare copper / tinned conductor, single / bundle structure  
 Insulation material: XLPE

Internal connection cable for electrical equipment, cross-linked polyethylene wire with conductor temperature not exceeding  $125^\circ\text{C}$   
 Rated temperature:  $125^\circ\text{C}$  Rated voltage: 3000 Vac

STYLE	stand ard AWG	Conductor size (No./ mm) $\pm 0.005\text{mm}$	Conductor resistance $20^\circ\text{C}$ ( $\Omega/\text{Km}$ )	Conductor Dia.(mm)	insulation thickness (mm)		Overall diameter (mm)	
					Nom.	Min.	Nom.	Tole.
3406	10	105/0.254	3.54	3.01	0.80	0.69	4.61	$\pm 0.15$
	12	65/0.254	5.64	2.37	0.80	0.69	3.97	$\pm 0.15$
	12	19/0.50	5.64	2.52	0.80	0.69	4.12	$\pm 0.15$
	14	1/1.63	8.78	1.63	0.80	0.69	3.23	$\pm 0.15$
	14	19/0.374	8.96	1.88	0.80	0.69	3.48	$\pm 0.15$
	14	41/0.254	8.96	1.88	0.80	0.69	3.48	$\pm 0.15$
	16	26/0.254	14.60	1.50	0.80	0.69	3.10	$\pm 0.15$
	16	65/0.16	14.60	1.50	0.80	0.69	3.10	$\pm 0.15$
	18	16/0.254	23.20	1.17	0.80	0.69	2.77	$\pm 0.10$
	18	41/0.16	23.20	1.18	0.80	0.69	2.78	$\pm 0.10$
	18	34/0.18	23.20	1.21	0.80	0.69	2.81	$\pm 0.10$
	20	21/0.18	36.70	0.95	0.80	0.69	2.55	$\pm 0.10$
	20	1/0.813	35.20	0.81	0.80	0.69	2.41	$\pm 0.10$
	22	17/0.16	59.40	0.76	0.80	0.69	2.36	$\pm 0.10$
	24	11/0.16	94.20	0.61	0.80	0.69	2.21	$\pm 0.10$
	26	7/0.16	150.00	0.49	0.80	0.69	2.09	$\pm 0.10$
28	7/0.127	239.00	0.39	0.80	0.69	2.00	$\pm 0.10$	
30	7/0.10	381.00	0.31	0.80	0.69	1.91	$\pm 0.10$	

**Sign:**

1、Printing: E211048 AWM STYLE 3406 NO.AWG  $125^\circ\text{C}$  3000V XLPE QIFURUI  
 c. AWM IA  $125^\circ\text{C}$  3000V FT2 -LF-  
 OR: E211048 AWM STYLE 3406 NO.AWG  $125^\circ\text{C}$  3000V VW-1 XLPE QIFURUI  
 c. AWM IA  $125^\circ\text{C}$  3000V FT2 -LF-  
 2、Label identification: manufacturer, model, specification, rated temperature resistance, rated withstand voltage, insulation material, color, package length, Production Date

**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			
10AWG	<input checked="" type="checkbox"/> 500Ft	<input type="checkbox"/> 1000Ft	<input type="checkbox"/> 2000Ft	
12~20AWG	<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				

