

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°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 electronics, appliances and equipment.

Guideline:

UL758-2014、UL1581-2009

Overview:

Internal wiring of electronics, electrical appliances and equipment to prevent impact and sharp corner bending at high temperatures

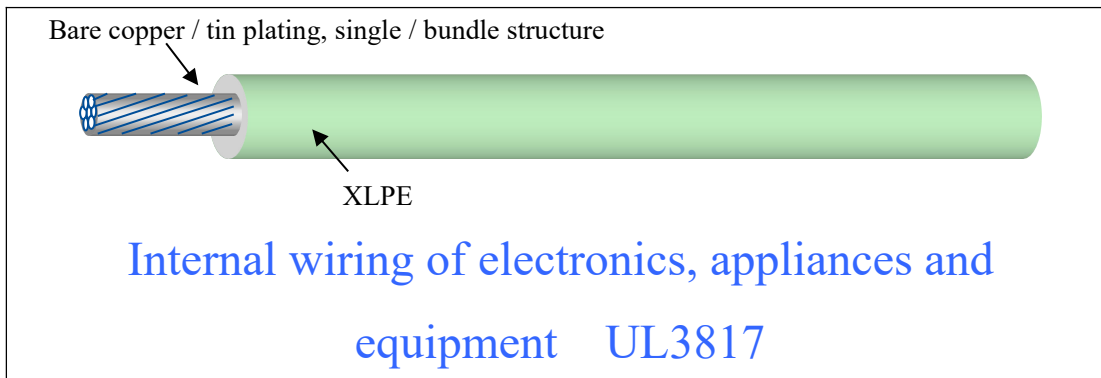
3Fproduct code:

E.g: 38171800-16
UL3817, 18AWG, black, 16/0.254, Tin plating

Serial number	change content	confirm	date	prepared by	Zhang Heng
A/0	First release	Jin Biao	2018.12.04	Review	Chen Li
A/1	Increase 14#41 支	Jin Biao	2019.06.14	Approve	
				Date of preparation	2018.12.04

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



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°C
 Rated temperature: 125°C Rated voltage: 3000 Vac

STYLE	stand ard AWG	Conductor size (No./ mm) $\pm 0.005\text{mm}$	Conductor resistance 20°C (Ω/Km)	Conduct or Dia.(mm)	insulation thickness		Overall diameter	
					Nom.	Min.	Nom.	Tole.
3817	4/0	19/44/0.404	0.172	15.48	1.5	1.35	18.48	± 0.30
	3/0	19/87/0.254	0.219	13.68	1.5	1.35	16.68	± 0.30
	2/0	19/70/0.254	0.277	12.27	1.5	1.35	15.27	± 0.30
	1/0	19/55/0.254	0.349	10.88	1.5	1.35	13.88	± 0.20
	1	19/44/0.254	0.440	9.73	1.2	1.08	12.13	± 0.20
	2	7/95/0.254	0.555	8.58	1.2	1.08	10.98	± 0.20
	3	19/28/0.254	0.700	7.75	1.2	1.08	10.15	± 0.20
	4	7/60/0.254	0.882	6.82	1.2	1.08	9.22	± 0.20
	5	7/46/0.254	1.113	5.97	1.2	1.08	8.37	± 0.20
	6	7/38/0.254	1.403	5.43	1.2	1.08	7.83	± 0.15
	8	168/0.254	2.230	3.80	0.80	0.51	5.4	± 0.15
	10	105/0.254	3.54	3.01	0.80	0.51	4.61	± 0.15
	12	65/0.254	5.64	2.37	0.80	0.51	3.97	± 0.15
	14	19/0.374	8.96	1.88	0.60	0.51	3.08	± 0.15
	14	41/0.254	8.96	1.88	0.60	0.51	3.08	± 0.15
	16	26/0.254	14.60	1.50	0.60	0.51	2.70	± 0.10
	18	16/0.254	23.20	1.17	0.60	0.51	2.37	± 0.10
	20	21/0.18	36.70	0.95	0.60	0.51	2.15	± 0.10
	22	17/0.16	59.40	0.76	0.60	0.51	1.96	± 0.10
	24	11/0.16	94.20	0.61	0.60	0.51	1.81	± 0.10
26	7/0.16	150.00	0.49	0.60	0.51	1.69	± 0.10	
28	7/0.127	239.00	0.39	0.60	0.51	1.59	± 0.10	
30	7/0.10	381.00	0.31	0.60	0.51	1.51	± 0.10	

Sign:

1、Printing: E211048 AWM STYLE 3817 NO.AWG 125°C 3000V XLPE QIFURUI
 c. AWM IA 125°C 3000V FT2 -LF-
 OR: E211048 AWM STYLE 3817 NO.AWG 125°C 3000V VW-1 XLPE QIFURUI
 c. AWM IA 125°C 3000V FT2 -LF-

2、Label identification: manufacturer, model, specification, rated temperature resistance, rated withstand voltage, insulation material, color, package length, Production Date

PACKAGE

*PACKAGE			
Part No.	Packing- FT/roll		
4/0-1/0	<input checked="" type="checkbox"/> 250Ft	<input type="checkbox"/> 500Ft	<input type="checkbox"/> 1000Ft
1-6	<input checked="" type="checkbox"/> 250Ft	<input type="checkbox"/> 500Ft	<input type="checkbox"/> 1000Ft
8~10AWG	<input checked="" type="checkbox"/> 500FT	<input type="checkbox"/> 1000FT	<input type="checkbox"/> 2000FT
12~16AWG	<input type="checkbox"/> 500FT	<input checked="" type="checkbox"/> 1000FT	<input type="checkbox"/> 2000FT
18~30AWG	<input type="checkbox"/> 500FT	<input type="checkbox"/> 1000FT	<input checked="" type="checkbox"/> 2000FT

According to customer requirements for packaging packaging

