

CHARACTER:

1.Physical performance

a、 excellent mechanical properties:

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

After aging:

Condition: 180±1.0℃/ 168h

Tensile strength residual rate≥80% elongation at break≥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 burning, burning for 5 times, 15S

each time, 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.Electrical Properties

a、 rated temperature: 150℃ **rated voltage:** 3kV

b、 Spark test: When passing through the test electrode, no breakdown occurs. Spark test voltage is 10KV

c、 dielectric withstand voltage: 7.0KV, 60 seconds without breakdown

3.Processing properties

a、 suitable for all conventional wire harness processing

b、 If you have special needs, please let us know.

4.Environmental protection

a、 ROHS/REACH compliant

SHOULD BE USED:

Internal wiring of electronic equipment.

REFERENCE:

UL758-2010、UL1581-2009

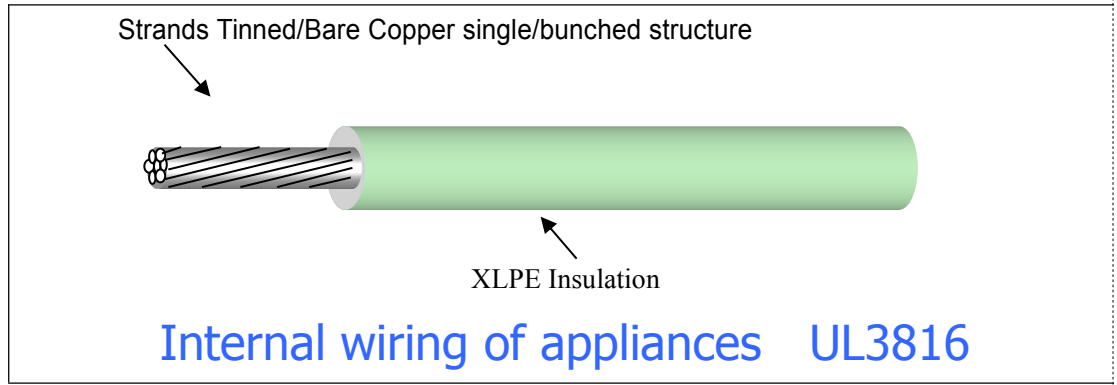
Outline:

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

PACKAGE

*PACKAGE				
Part No.	Packing- Ft/roll			
4/0-6AWG	■ 250Ft	□ 500Ft	□ 1000Ft	□ 2000Ft
8~10AWG	□ 250Ft	■ 500Ft	□ 1000Ft	□ 2000Ft
12~20AWG	□ 250Ft	□ 500Ft	■ 1000Ft	□ 2000Ft
22~30AWG	□ 250Ft	□ 500Ft	□ 1000Ft	■ 2000Ft

Packaging according to customer requirements



Wire structure description:

Conductor: Tinned /Bare copper ;

Insulation materials: XLPE Insulation

Internal connecting wires of electrical equipment,cross-linked polyethylenewires with conductor temperature not exceeding 150℃
Rated temperature:150℃ Rated voltage: 3000Vac

STYL	stand ard AWG	Conductor size (No./ mm) ±0.005mm	Conductor resistance 20℃ (Ω/Km)	Conductor Dia.(mm)	insulation thickness (mm)		Overall diameter (mm)	
					Nom.	Min.	Nom.	Tole.
3816	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
	4	7/60/0.254	0.882	6.82	1.2	1.08	9.22	±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
	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

Marking: E211048 AWM STYLE 3816 NO.AWG 150℃ 3000V XLPE QIFURUI
 AWM IA 150℃ 3000V FT2 -LF-

OR E211048 AWM STYLE 3816 NO.AWG 150℃ 3000V VW-1 XLPE QIFURUI
 AWM IA150℃ 3000V FT1 -LF-

3F product code:

Eg.: 38161800-16
 UL3816, 18AWG, black, 16/0.254, Tinned

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- PURPUL