

CHARACTER:

1. Physical performance

a. Excellent mechanical properties:

Tensile strength $\geq 10.3\text{MPa}$, Elongation at break $\geq 100\%$

After aging:

Condition: $136 \pm 1.0^\circ\text{C} / 168\text{H}$

Residual rate of tensile strength $\geq 70\%$

Residual rate of elongation at break $\geq 65\%$

b. Flame retardancy: VW-1, vertical burning, burning for 5 times, 15s each time, and the residual flame at any time is not more than 60s

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

2. Electrical Properties

a. Rated temperature: 105°C Rated voltage: 2000V

b. Spark test: no breakdown occurs when passing through the test electrode. Spark test voltage is 10KV AC

c. Dielectric withstand voltage: 5KV, no breakdown in 60s

3. Processing properties

a. Applicable to all conventional wire harness processing processes

b. Please inform us of any special needs

4. Environmental protection

a. ROHS/REACH compliant

Application:

Internal wiring of electronics, electrical appliances and equipment

Reference Standards:

UL758-2014、UL1581-2014

summary:

Wires are installed inside to prevent sharp corners from bending under impact and high temperature

3F Product code:

Eg: 116271000-105

UL11627, 10AWG, BLACK, 105/0.254, Tinning

SAE color plate

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

Revision history	NO.	Change content	Confirm	Date	Editor	Chen Li
	A/0	First issue	Jin Biao	2018.12.04	Auditor	Zhang Heng
	A/1	Add 22 # 7	Jin Biao	2019.04.16	approval	<i>CFMP</i>
				Preparation date		2018.12.04

Tin plated/bare copper conductor, single/stranded structure



PVC Insulation

Appliances with internal UL11627

Wire structure description:

Conductor structure: Tin plated/bare copper conductor, single/stranded structure

Insulation materials: PVC Insulation

Internal connecting wire of electrical equipment, PVC wire with conductor temperature not exceeding 105°C

Rated temperature: 105°C Rated voltage: 2000V

STYLE	SIZE AWG	Conductor construction (No./mm) $\pm 0.005\text{mm}$	Conductor resistance (Ω/Km)	Conductor diameter (mm)	insulation thickness (mm)		Over diameter (mm)	
					Nom	Min	Nom.	Tole
11627	4/0	19/110/0.254	0.172	15.38	2.03	1.83	19.44	± 0.30
	3/0	19/87/0.254	0.219	13.68	2.03	1.83	17.74	± 0.30
	2/0	19/70/0.254	0.277	12.27	2.03	1.83	16.33	± 0.30
	1/0	19/55/0.254	0.349	10.88	2.03	1.83	14.94	± 0.30
	1	19/44/0.254	0.440	9.73	2.03	1.83	13.79	± 0.30
	2	7/95/0.254	0.555	8.58	1.53	1.37	11.64	± 0.30
	4	7/60/0.254	0.882	6.82	1.53	1.37	9.88	± 0.30
	5	7/46/0.254	1.113	5.97	1.53	1.37	9.00	± 0.20
	6	7/38/0.254	1.403	5.43	1.53	1.37	8.49	± 0.20
	7	7/30/0.254	1.768	4.82	1.15	1.02	7.12	± 0.15
	8	168/0.254	2.230	3.80	1.15	1.02	6.10	± 0.15
	10	105/0.254	3.54	3.01	0.80	0.69	4.61	± 0.15
	12	65/0.254	5.64	2.37	0.80	0.69	3.97	± 0.15
	14	41/0.254	8.96	1.88	0.80	0.69	3.48	± 0.15
	16	26/0.254	14.60	1.50	0.80	0.69	3.10	± 0.10
	18	16/0.254	23.20	1.17	0.80	0.69	2.77	± 0.10
	20	21/0.18	36.70	0.95	0.80	0.69	2.55	± 0.10
	22	17/0.16	59.40	0.76	0.80	0.69	2.36	± 0.10
	22	7/0.254	59.40	0.78	0.80	0.69	2.38	± 0.10
	24	11/0.16	94.20	0.61	0.80	0.69	2.21	± 0.10
26	7/0.16	150.00	0.49	0.80	0.69	2.09	± 0.10	
28	7/0.127	239.00	0.39	0.80	0.69	1.99	± 0.10	
30	7/0.10	381.00	0.31	0.80	0.69	1.91	± 0.10	

Sign:

1、Marking: E211048 AWM STYLE 11627 NO.AWG105 $^\circ\text{C}$ 2000V VW-1 PVC QIFURUI AWM I A 105 $^\circ\text{C}$ 2000V FT1 -LF-

2、Label identification: Manufacturer, model, specification, rated temperature resistance, rated voltage resistance, insulating material, color, packaging length, production date

PACKAGE

*PACKAGE					
Part No.	Packing- Ft/roll				
4/0~2AWG	<input checked="" type="checkbox"/> 250Ft	<input type="checkbox"/> 500Ft	<input type="checkbox"/> 1000Ft	<input type="checkbox"/> 2000Ft	
04~08AWG	<input type="checkbox"/> 250Ft	<input checked="" type="checkbox"/> 500Ft	<input type="checkbox"/> 1000Ft	<input type="checkbox"/> 2000Ft	
10~16AWG	<input type="checkbox"/> 250Ft	<input type="checkbox"/> 500Ft	<input checked="" type="checkbox"/> 1000Ft	<input type="checkbox"/> 2000Ft	
18~30AWG	<input type="checkbox"/> 250Ft	<input type="checkbox"/> 500Ft	<input type="checkbox"/> 1000Ft	<input checked="" type="checkbox"/> 2000Ft	

According to customer requirements for packaging packaging



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