

**CHARACTER:**

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- a、Insulation resistance:  
Insulation resistivity at 70°C ≥ 1\*10<sup>9</sup>Ω.mm (GB/T 25085-2010)
- b、Compressive strength:  
AC 6000V/15min
- c、Material properties:  
Low smoke halogen free, flame retardant
- d、Flame retardant properties:  
The burning flame on the insulating material should be extinguished within 70s, and the insulation at least 50mm at the end of the sample should remain unextended.
- e、Oil resistance test:  
The change rate of the outer diameter of the maximum wire for gasoline, diesel and oil within 20 hours is less than or equal to 15%.
- f、Battery acid resistance:  
The first cycle is 8h, the second cycle is 16h, and the winding does not expose copper and withstand voltage and does not break down.
- g、low temperature winding:  
-40°C, 4h, no skin breakage during winding, no breakdown under pressure.
- h、Bending radius:  
Finished outer diameter ≤ 20mm, not less than 6D.
- i、physical properties:  
Tensile strength ≥ 9MPa; elongation at break ≥ 125%.
- j、Short term aging characteristics:  
150°C, 240h, withstand voltage without breakdown.
- k、Long-term aging characteristics:  
125°C, 3000h, withstand voltage without breakdown.
- l、Thermal overload characteristics:  
175°C, 6h, withstand voltage without breakdown.
- m、Ozone resistance test:  
192h under ozone conditions, insulation does not crack (GB/T 2951.21)
- n、heat shrink:  
150°C, 15min, Insulation maximum shrinkage ≤ 2mm
- o、printing test:  
The printing is clear and not easy to wipe off, and it can still be recognized after 10 times of rubbing with a water-soaked absorbent cotton cloth.

**2.Environmental protection**

- a、ROHS/REACH compliant

**SHOULD BE USED:**

Battery connection wire

**REFERENCE:**

GBT 12528&GBT 25085

Instructions for use:

Do not use it in corrosive environments such as strong acid and alkali, do not immerse it in water or use it in a high humidity environment, and do not use it outdoors exposed to sunlight. It is recommended that the minimum bending radius of wire routing be 5 times OD and above, and it cannot be used under strong stress conditions. The wire needs to be stored in a dry and ventilated room.  
If the wire has special requirements, please contact our company.

Bare copper conductor, bundled structure



XLPE Insulation Jacket

**Battery cable EV**

**Wire structure description:**

Conductor: Bare copper  
Insulation materials:XLPE insulation

STYLE	AWG mm <sup>2</sup>	Conductor size (No./mm) ±0.005mm	Conductor resistance 20°C (Ω/Km)	Conductor Dia.(mm)	Jacket thickness		Overall diameter(mm)	
					Nom. (mm)	Min. (mm)	Nom.	Max
EV	0.50	16/0.20	37.1	0.92	0.60	0.50	2.12	±0.10
	0.75	24/0.20	24.7	1.13	0.60	0.50	2.33	±0.10
	1.00	32/0.20	18.5	1.30	0.60	0.50	2.50	±0.10
	1.50	48/0.20	12.7	1.60	0.60	0.50	2.80	±0.10
	2.50	80/0.20	7.6	2.07	0.80	0.60	3.67	±0.15
	3.00	96/0.20	6.15	2.26	0.80	0.60	3.86	±0.15
	4.00	127/0.20	4.71	2.60	0.80	0.65	4.20	±0.15
	5.00	160/0.20	3.94	2.92	0.80	0.65	4.52	±0.15
	6.00	19/10/0.20	3.14	3.65	0.80	0.65	5.25	±0.15
	10.0	19/17/0.20	1.82	4.76	1.00	0.80	6.76	±0.15
	16.0	19/27/0.20	1.16	6.00	1.00	0.80	8.00	±0.20
	25.0	19/42/0.20	0.743	7.48	1.40	1.10	10.28	±0.20
	35.0	19/59/0.20	0.527	8.86	1.40	1.10	11.66	±0.20
	50.0	19/84/0.20	0.368	10.60	1.60	1.30	13.80	±0.30
70.0	19/118/0.20	0.259	12.55	1.60	1.30	15.75	±0.30	
95.0	19/160/0.20	0.196	14.60	1.80	1.50	18.20	±0.30	
120.0	19/ (18*10+1* 22) /0.20	0.153	18.25	1.80	1.50	21.85	±0.40	

Marking: EV CABLE XXmm<sup>2</sup> 125°C 1500V QIFURUI

**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-VIOLET

**PACKAGE**

*Packaging method and length	
Confirmed by both parties	<b>3F</b>