

**CHARACTER:**

**1.characteristics**

a.Insulation resistance:

Insulation resistivity  $\geq 1 \times 10^9 \Omega \cdot \text{mm}$  at 70°C (GB/T 25085-2010)

b.Pressure strength:

AC 6000V/15min

c.Material characteristics:

Low smoke, halogen free, flame retardant

d.Flame retardant characteristics:

Burning flames on insulating materials shall be extinguished within 70s and at least 50mm of insulation shall remain unburned at the end of the specimen.

e.Oil resistance test:

Gasoline, diesel oil, engine oil 20 hours maximum wire diameter change rate  $\leq 15\%$ .

f.Battery acid resistance:

The first cycle is 8h, and the second cycle is 16h. The winding does not expose copper and the breakdown voltage does not break down.

g.Low temperature winding:

-40 °C, 4h, winding without breaking skin, withstand voltage without breakdown.

h.Bending radius:

Finished outer diameter  $\leq 20\text{mm}$ , not less than 6D.

i.Physical characteristics:

Tensile strength  $\geq 9\text{MPa}$ ; elongation at break  $\geq 125\%$ .

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 condition, insulation does not crack (GB/T 2951.21)

n.Heat shrinkage:

150°C, 15min, maximum insulation shrinkage  $\leq 2\text{mm}$

o.Printing test:

The printing is clear and hard to erase. It is still legible after 10 times of light rubbing with soaked degreased cotton cloth.

**2.Environmental Protection**

a.Compliance with ROHS/REACH

**Applications**

High-voltage cables for road vehicles

**Reference standard:**

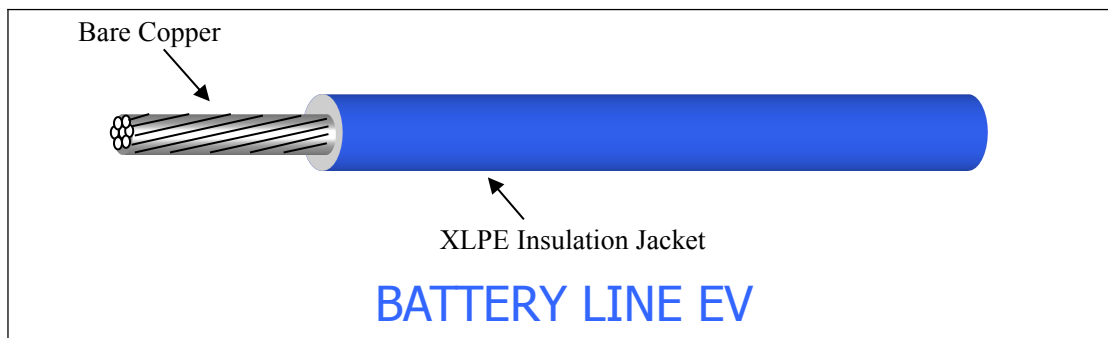
GBT 12528&GBT 25085

Instructions for use:

Do not use in corrosive environment such as strong acid and alkali, do not immerse in water or use in high humidity environment, and do not use in outdoor naked sunlight.

It is recommended that the minimum bending radius of wire wiring is 5 times OD and above, and cannot be used under strong stress conditions. The wire needs to be stored in a dry and ventilated room.

If wire has special requirements, please contact us.



**Wire structure description:**  
 Conductor: Bare copper ;  
 Insulation materials: XLPE Insulation

Rated temperature: 125°C rated voltage: 1500V

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

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

**SAE COLOR SERIES**

* STOCK COLOR CHART
08-ORANGE

**PACKAGE**

*PACKAGE
Confirmation by both parties
<b>3F</b>