characteristic:

1.Characteristic

a、Insulation resistance:
Insulation resistivity at 70°C≥1*109Ω.mm(GB/T 25085-2010)

b、Voltage withstand strength:
AC 6000V/15min

c、Material characteristics:
Low smoke, halogen-free, flame retardant

d、Flame retardant characteristics:
The burning flame on the insulation material should be extinguished within 70 seconds, and at least 50mm of insulation should remain unburned at the end of the sample.

e、Oil resistance test:
The maximum change rate of the outer diameter of the wire after 20 hours of exposure to gasoline, diesel, and engine oil should be ≤15%.

f、Acid resistance of battery:
First cycle 8 hours, second cycle 16 hours, winding without exposed copper withstands voltage without breakdown.

g、Low temperature winding:
-40°C,4h,winding without skin breakage, withstands voltage without breakdown.

h、Bending radius:
Completed outer diameter ≤20mm, not less than 6D.

i、Physical properties:
Tensile strength ≥9MPa; elongation at break ≥125%.

j、Short-term aging characteristics:
150°C, 240 hours, withstands voltage without breakdown.

k、Long-term aging characteristics:
125℃，3000h，withstands voltage without breakdown.

l、Thermal overload characteristics:
175℃，6h，withstands voltage without breakdown.

m、Ozone resistance test:
Under ozone conditions for 192 hours, insulation does not crack (GB/T 2951.21)

n、Thermal shrinkage:
150℃,15min,maximum insulation shrinkage≤2mm

o、Printing test:
Clear printing that is not easily erased, can still be identified after being lightly rubbed with degreasing cotton cloth soaked in water 10 times.

2.Environmental protection

a、in line with ROHS/REACH

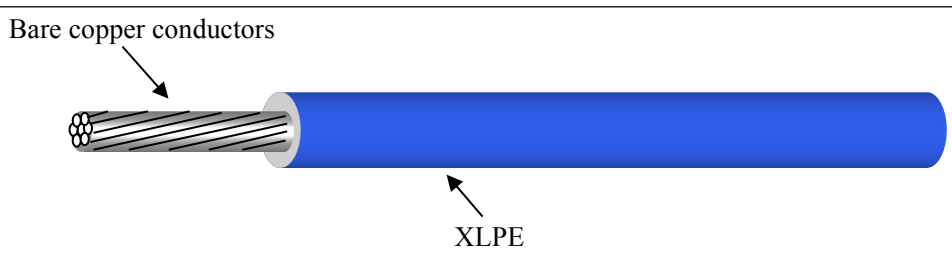
application:

Battery connection wire

Guideline:

ISO6722、QC/T 1037

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



Battery wire EVH

Wire structure description:
Conductor：Bare copper conductors
Insulation：XLPE

Battery wire EVH
rated temperature：: 150℃ rated voltage:1500Vdc OR 1000Vac

STYLE	Standard mm2	Conductor size (No./ mm) ±0.005mm	Conductor resistance 20℃ (Ω/Km)	insulation thickness (mm)		Overall diameter (mm)	
				Nom.	Min.	Nom.	Tol.
EVH	0.35	12/0.20	54.4	0.60	0.50	2.00	±0.10
	0.50	16/0.20	37.1	0.60	0.50	2.12	±0.10
	0.75	24/0.20	24.7	0.60	0.50	2.33	±0.10
	1.00	32/0.20	18.5	0.60	0.50	2.50	±0.10
	1.50	48/0.20	12.7	0.60	0.50	2.80	±0.10
	2.00	65/0.20	9.42	0.80	0.60	3.46	±0.15
	2.50	80/0.20	7.6	0.80	0.60	3.67	±0.15
	3.00	96/0.20	6.15	0.80	0.60	3.86	±0.15
	4.00	127/0.20	4.71	0.80	0.65	4.20	±0.15
	5.00	160/0.20	3.94	0.80	0.65	4.52	±0.15
	6.00	19/10/0.20	3.14	0.80	0.65	5.25	±0.15
	10.0	19/17/0.20	1.82	1.00	0.80	6.76	±0.15
	16.0	19/27/0.20	1.16	1.00	0.80	8.00	±0.20
	25.0	19/42/0.20	0.743	1.40	1.10	10.28	±0.20
	35.0	19/59/0.20	0.527	1.40	1.10	11.66	±0.20
	50.0	19/84/0.20	0.368	1.60	1.30	13.80	±0.30
	70.0	19/118/0.20	0.259	1.60	1.30	15.75	±0.30
	95.0	19/160/0.20	0.196	1.80	1.50	18.20	±0.30
	120.0	19/（18*10+1*22）/0.20	0.153	1.80	1.50	21.85	±0.40

Marking：No printing

SAE COLOR SERIES

*STOCK COLOR CHART
08-ORANGE

PACKAGE

*PACKAGE	
Confirmation by both supply and demand sides	

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