Silicone Glass Fiber Sleeving

· Fiberglass Sleeving Series

Description

Silicone glass fiber sleeving is woven from alkali-free glass fiber, coated with silicone resin and treated at high temperature. It provides good dielectric properties, self-extinguishing performance and flexibility, widely used for insulation protection in H&N level motors, household appliances, electric heating equipment, special lighting, televisions and internal wire clusters of electronic equipment.



Standard / Certification

VW-1 · UL1441 · UL224

Technical indicators

Model (Mode)	(Measures)	(The burning of resistance)	e Resistance	(Breakdown voltage rating)	(The average voltage)	(Individual value)
YC -15	UL1441UL224	ULVW-1	-10℃~+200℃	C2	1500V	1000V
YC -25	UL1441UL224	ULVW-1	-10℃~+200℃	C1	2500V	1800V
YC -40	UL1441UL224	ULVW-1	-10℃~+200℃	B	4000V	3000V
YC -70	UL1441UL224	ULVW-1	-10℃~+200℃	A	7000V	5000V

Performance Indicators

Item	Performance Indicators
To connect using the temperature range	-10℃~+200℃
Temperature	Original voltage solution
Thermal Aging	6 hours
Cold bending	No cracks
The horizontal combustion	>30 seconds
Combustion vw-1	>30 seconds
Volume resistivity	10"Ωcm
Hydrolytic stability	Non-tacky, no distortion, no softening

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Product specifications

(Inner Diameter) (mm)	Wall thickness(T)	Wall thickness(T)	Fbr InsideThe Outer Plastic)	Fbr InsideThe Outer Plastic)	Fbr InsideThe Outer Plastic)
1.0+0.2–0	0.25±0.05	0.30±0.05	0.35±0.05	0.40±0.05	0.50±0.05
1.5+0.2–0	0.25±0.05	0.35±0.05	0.35±0.05	0.45±0.05	0.50±0.05
2.0+0.2–0	0.30±0.05	0.35±0.05	0.35±0.05	0.45±0.05	0.50±0.05
2.5+0.2–0	0.30±0.05	0.35±0.05	0.40±0.05	0.45±0.05	0.50±0.05
3.0+0.3–0.1	0.30±0.05	0.35±0.05	0.40±0.05	0.45±0.05	0.75±0.05
3.5+0.3–0.1	0.30±0.05	0.35±0.05	0.40±0.05	0.50±0.05	0.75±0.05
4.0+0.3–0.1	0.30±0.05	0.35±0.05	0.40±0.05	0.50±0.05	0.80±0.05
4.5+0.3–0.1	0.30±0.05	0.45±0.05	0.45±0.05	0.50±0.05	0.80±0.05
5.0+0.3–0.1	0.35±0.05	0.45±0.05	0.45±0.05	0.50±0.05	0.90±0.05
5.5+0.4–0.1	0.35±0.05	0.45±0.05	0.45±0.05	0.50±0.05	0.90±0.05
6.0+0.4–0.1	0.35±0.05	0.45±0.05	0.45±0.05	0.50±0.05	0.90±0.05
7.0+0.4–0.1	0.35±0.05	0.45±0.05	0.50±0.05	0.55±0.05	1.00±0.05
8.0+0.4–0.1	0.35±0.05	0.45±0.05	0.50±0.05	0.55±0.05	1.00±0.05
9.0+0.5–0.2	0.35±0.05	0.45±0.05	0.50±0.06	0.55±0.05	1.00±0.05
10.0+0.5–0.2	0.40±0.05	0.50±0.05	0.60±0.06	0.55±0.05	1.00±0.05
11.0+0.5–0.2	0.40±0.05	0.50±0.05	0.60±0.06	0.60±0.05	1.00±0.05
12.0+0.5–0.2	0.40±0.05	0.50±0.05	0.60±0.06	0.60±0.05	1.10±0.05
13.0+0.6–0.2	0.40±0.05	0.50±0.05	0.60±0.05	0.60±0.05	1.10±0.05
14.0+0.6–0.2	0.40±0.05	0.50±0.05	0.60±0.05	0.60±0.05	1.20±0.05
15.0+0.6–0.2	0.40±0.05	0.50±0.05	0.60±0.05	0.60±0.05	1.20±0.05
16.0+0.6–0.2	0.40±0.05	0.50±0.05	0.60±0.05	0.65±0.05	1.35±0.05
17.0+0.7–0.3	0.40±0.05	0.50±0.05	0.60±0.05	0.65±0.05	
18.0+0.7–0.3	0.45±0.05	0.55±0.05	0.60±0.05	0.65±0.05	
19.0+0.7–0.3	0.45±0.05	0.55±0.05	0.60±0.05	0.65±0.05	
20.0+0.7–0.3	0.65±0.05	0.55±0.05	0.60±0.06	0.70±0.05	
25.0+0.7–0.3	0.65±0.05	0.55±0.05	0.60±0.06	0.70±0.05	
30.0+1.0–1.0	0.65±0.05	0.55±0.05			
35.0+1.0–1.0	0.65±0.05				

Notes

- self–extinguishing time: 10 seconds
- Property
- Special sizes are available upon purchase order
- www.gdyongchang.com

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Product Advantages

- **Outer Silicone Coating: Insulating & Smooth Surface**
  The alkali-free fiberglass braided tube is coated with silicone resin and cured at high temperature, forming a dense and smooth insulating layer with stable dielectric performance and moisture protection.
- **Self-extinguishing, UL VW-1 Rated**
  Listed under UL1441 / UL224. VW-1 and horizontal burn tests show self-extinguishing time above 30 seconds for demanding flame-retardant applications.
- **Flexible and Easy to Bend**
  Soft body with no cracks in the cold bending test; easy to slide over wire bundles and route in confined spaces for fast installation.
- **Full Size Range with Custom Colors**
  Inner diameter from 1.0 to 35mm with wall thickness options for four voltage classes, packed in 50-200m rolls; standard white with custom colors and special sizes available on request.
- **Wide Temperature Range: -10℃~+200℃**
  Continuous operating temperature from -10℃ to +200℃. After 168h at 200℃±2℃, it retains at least half of the original breakdown voltage, and passes 260℃ / 6h thermal aging with stable performance.
- **Complete Voltage Ratings: 1500V ~ 7000VC2 / C1 / B / A**
  Four breakdown voltage classes (1500V / 2500V / 4000V / 7000V) with guaranteed average and individual values, allowing precise selection for any insulation requirement.
- **Excellent Hydrolytic Stability**
  Non-tacky, no distortion and no softening during long-term service; excellent weatherability for continuous operation.

Application Scenarios

- **H & N Level Motors**
  Insulation protection for motor winding leads and terminals under high temperature and high voltage for long-term reliable operation.
- **Household Appliances**
  Internal wiring insulation and fixing inside rice cookers, microwaves, air conditioners and other appliances to prevent shorts and leakage.
- **Electric Heating Equipment**
  Wire protection in high-temperature zones of ovens, heating elements and heater bands, rated for continuous use up to 200℃.
- **Special Lighting**
  High-temperature lead insulation inside luminaires with flame retardance, suitable for high-power and enclosed lamp chambers.
- **Television & Electronic Instruments**
  Internal wire harness insulation protection combining flame retardance and dielectric strength for higher equipment safety.