WOER

沃尔核材

WOER HEAT-SHRINKABLE MATERIAL

Important Notice

While Woer has made every effort to ensure the accuracy of the information in this catalog, Woer does not guarantee that it is errorless. Nor does Woer make any other warranty or guarantee that the information is accurate, reliable or current. Before using our products, you must evaluate them and determine if they are suitable for your intended application. Woer reserves all the rights to make any adjustments to the information contained at any time without notice.

1kV Cast Resin Cable Joints

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Global Solution Provider

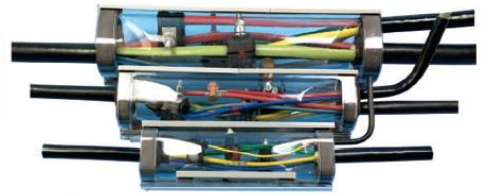
PEOPLE. PRODUCT. POWER.

Shenzhen Woer Heat-shrinkable Material Co., Ltd (Stock Code: 002130) is a high-tech enterprise with headquarter in Shenzhen, China. Founded in 1998, Woer has undergone dynamic growth and become one of the largest manufacturers of heat & cold shrinkable insulation material.

The Woer brand has always been a guarantee for the supply of products and services. From product design and raw materials purchasing to final inspection and testing, Woer has a perfect quality assurance program covering the entire production process. So far, we have been successfully certified by ISO 9001, ISO 14001, ISO/TS 16949, UL, CSA, 3C, etc. Also, we' ve got the Type Test certification from KEMA in 2007, and were authenticated by CNAS in 2011.

Woer Power Division, a major part of Woer Corporation, is well-known for its outstanding products and professional services. For more than 18 years, Woer Power Division has been developing, manufacturing and marketing a broad range of cable accessories for reliable power delivery. And it has made tremendous contribution to the innovation of product design and manufacture. All our experiences, together with a strong commitment to R&D, have prepared us to be a global leader in cable accessories industry.

At Woer, we know this can be done.

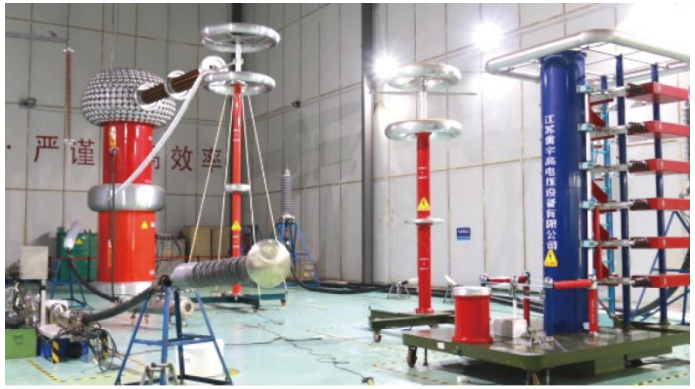


Our Technology

We offer a full range of products for a wide variety of applications using heat shrink, cold shrink and cold applied technologies. Woer technology is based on specially formulated thermoplastic polymer materials or high quality silicone rubber. The compounds for these materials are designed, selected and mixed in our own factory. Sophisticated process controls during extrusion, injection moulding, cross-linking and expansion ensure high quality and reliability of our products.

Innovation is the soul of a high-tech enterprise. To achieve this, we established several material labs and two fully equipped high voltage test labs with AC voltage withstand up to 1200kV. All the labs were authenticated by CNAS in 2011. Also, electrical, material and mechanical engineers are working in cross functional teams focused on new technologies and product developments.

Materials Laboratory



High voltage laboratory

1kV Cast Resin Cable Joints

Resin-filled in plastic moulds
Both straight-through joints and branch joints are available.
The product has the advantages of good waterproof performance, easy installation.
Excellent electrical properties, and long-term immersion in water (20 years).

Product Features

1. For power cable, communication cable and signal cable up to 1kV ;
2. Good insulation and water-proofing solution, easy and fast installation;
3. Compact design for cable branch joint;
4. Good anti-leakage effect and excellent mechanical protection;
5. Buried directly under the ground. No cable pit required. Save construction costs

Product Structure

1. Plastic moulds made of PC material ensures the product's strength and resilience, no deformation or aging for a long time.

2. Cast resin with excellent waterproof and insulation performance, reliable quality, submersible for a long time after curing.

Product Standards

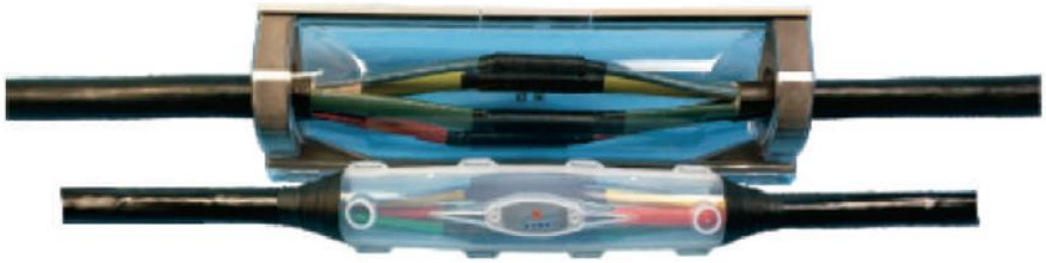
ASTM-D-638 Test method for tensile properties of plastics
IEC 60093 Volume resistivity and surface resistivity test methods for solid insulation materials
ISO 868:2003 Test method for Shore hardness of plastics
IEC 60243 Test method for electrical strength of solid insulation materials
BS EN 50393:2015 Test methods and requirements for accessories for use on distribution cables of rated voltage 0.6/1(1.2)kV.

Technical Parameter

Cast resin
Curing time: 30-60 minutes at 25 ℃
Volume resistivity: ≥3.14 × 10^{13}Ω.cm
Tensile strength: ≥2.5Mpa
Elongation at break: ≥56%
Shore A hardness: ≥70A
Insulation strength: ≥20kV/ mm
Adaptation temperature: -40 ℃ —60 ℃
Acid and alkali resistance: no change for 24 hours in 0.1mol / L sodium hydroxide and 0.1mol / L hydrochloric acid

Item	Test Method	Requirement
AC withstanding(air)	4kV, 1 min	Pass
AC withstanding(water)	4kV, 1 min	Pass
Insulation resistance	Range:100V-1000V, 1-5min, result stable	Insulation resistance≥50MΩ

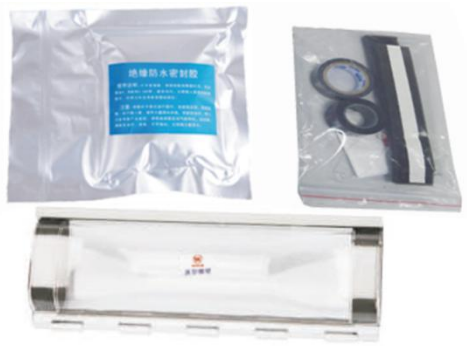
Cable Cast Resin Straight-through Joints

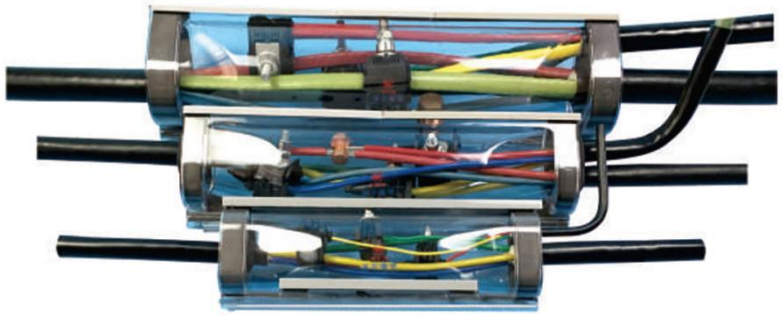


Specifications

Part No.	Dia over cable(mm)	Unarmored cable(mm^2)	Armored cable(mm^2)	Product Size(mm)	Filler weight(g)
S1	8-26	3X16,4X16	3X10,4X10	185X40X45	160
S2	14-32	3X35,4X25	3X16,4X16	270X55X55	350
S3	23-39	3X50,4X50	3X50,4X35	355X65X60	600
S4	28-50	3X95,4X95	3X95,4X70	400X90X75	1300
S5	45-70	3X240,4X240	3X240,4X240	510X160X120	5000

Cable Cast Resin Branch Joints





Specifications

Part No.	Max Diameter over cable(mm)		Max Cross-section(mm2)		Product size(mm)	Filler weigh(g)
	Main circuits	Branch circuits	Main circuits	Branch circuits		
F1	15	15	4X1.5-6	4X1.5-4	175X75X40	160
F2	29	22	4X16-25(35)	4X6-6	175X110X76	600
F3	29	22	4X16-25(35)	4X6-6	300X110X76	1100
F4	35	25	3X95.4X95	4X6-25	400X125X100	2500
F5	55	38	3X240.4X240	4X6-70	510X160X120	5000

Installation instruction

1. After the cables are connected, place the branch sponge card between the main circuits and the branch circuits at the branch, and fix them with cable ties; wrap the white sponge strip around the ends of the cable in plastic mould.

2. Clamp the U-shaped clip on the sponge.

3. Close the plastic mould, use the plastic clip to close it up.
Mix the cast resin according to the instructions and pour it into the plastic mould.

4. After the installation is completed, the joint can be buried underground after curing.

Application scenario