



苏州沃尔兴电子科技有限公司
Suzhou Volsun Electronics Technology Co.,Ltd

Telecom products

*Science & Technology changing the world,
Service doubling the value
Volsun, well connect your great future...*



苏州沃尔兴电子科技有限公司
Suzhou Volsun Electronics Technology Co.,Ltd

Add: No.402 Mudong Road, Suzhou, Jiangsu, China

Tel: 0086-512-66386808

Fax: 0086-512-66386908

E-mail: sales@szvolsun.com

Web: www.szvolsun.com

www.coldshrinktubing.com



company video

Your Specialist in Insulation, Sealing & Protection Solutions!

Introduction

Volsun was founded in 2006, as the pioneer of cold shrink tube manufacturer in China, we keep focusing on the R & D, production and sales in insulation, sealing & protection solutions for more than 14 years.

Quality is our culture. Volsun has a modern quality management system, which has passed a series of quality system certification such as IATF16949, ISO9001 etc. And we have gained some advanced titles such as Jiangsu famous scientific and technical corporation, China new high-tech enterprise etc. have independent intellectual property rights, 88 patents and 97 product certifications.

Up to now, Volsun cooperated with customers from 88 countries, we offer suitable sealing, waterproof solutions for some well-know enterprises in communication, Automobile, Power industry etc.

We will keep on innovation, and offer you a better and reliable solution for connectivity is our commitment. Volsun, your specialist in Insulation, Sealing & Protection solutions!

History

- 2006.10** VOLSUN Founded
- 2007.05** Became supplier of Winchester US
- 2008.01** Cold shrink tube new products launched into market
- 2014.12** Became Jiangsu Science and Technology Enterprise
- 2015.07** Successfully applied for 43 national patents
- 2016.12** Awarded the title of national high-tech enterprise
- 2017.11** Approved by several Top 10 telecom companies
- 2018.01** Cooperated with the Chinese Academy of Sciences
- 2019.01** Cooperated with 88 countries' customers
- 2019.09** Subsidiary Suzhou Fast New Materials Co., Ltd. gained the Suzhou Leadership Talent Award
- 2020.06** Move into 12,000m² new factory building, monthly output over 1 million pcs, should be the China No.1
Keep going.....

CONTENTS

Volsun Honors & Certifications	01
VS Silicone Rubber Cold Shrink Tube	03
VE EPDM Cold Shrink Tube	05
VSM Silicone Rubber Cold Shrink Tube with Mastic	07
VS Cold Shrink Breakout	09
RF Weatherproofing Boots	11
VP-TAPE Electrical PVC Insulation Tape	13
VT Butyl Tape	15
VWM-TAPE Waterproof Insulation Mastic Tape	17
Together with Customers	19

Volsun Honors & Certifications





VS Silicone Rubber Cold Shrink Tube

Description

Provide excellent moisture sealing for telecom connectors and cables. Can be installed with less room than other insulation products.

Feature

- IP67 / IP68 rate
- Easy installation
- UV resistance
- Ozone Aging resistant
- Continuous Operating Temperature: -60°C-200°C
- Shrink ratio: 5:1 / 4:1
- Color: Black, White, Grey



Technical Performance

Properties	Typical Data	Test Method	
Protection Grade	IP67 / IP68	IEC 60529	
Shore hardness	45±5A	ISO 7619-1:2004	ASTM D 2240-75
Tensile strength	9MPa	ISO 37:2005	ASTM D412-75
Elongation at break	850%	ISO 37:2005	ASTM D412-75
Tear strength	40kN/m	ISO 34-1:2004	ASTM D624C-73
Dielectric strength	23kV/mm	IEC 60243-1:2013	ASTM 149-75
Volume Resistivity	1×10 ¹⁵ Ω.cm	IEC 60093-1980	
Moisture Absorption	≤0.5%	IEC 60068-2-10	ASTM D 570
UV Resistant	UV irradiation for 1000 hours without aging	ISO 4892-2 method A	
Flame Retardancy (vertical burning)	V0	UL94	
RoHS Compliance	Compliant	2011/305/EU	

Selected Guide

Typical Application	Connector Size	Cable Type	Volsun Part Number
7/16 DIN	36mm / 1.44"	12mm / .472"	Φ45
4.3-10 Connection	24mm / .95"	6.4mm / .25"	Φ28
Type N Connection	19mm / .75"	10 mm / .40"	Φ32
Round Type N	19mm/.75"	8mm / 5/16"	Φ28

Size from ID15mm ~ ID160mm, Length: 50mm ~ 1,200mm are available

More special requirements, please contact our sales consultant.

Connector Type	Cable Type
7/16 DIN	½ Inch Coax 1/2 Coaxial cable OD 12mm
4.3-10	¼ Inch Coax 1/4 Coaxial cable OD 6.4mm
Type N	LMR 400 LMR 400 Coaxial cable OD 10mm
Type N	LMR 195 LMR 195 Coaxial cable OD 8mm

Installation Steps



- 1 Clean the connector
- 2 Put on cold shrink tube
- 3 Install connector
- 4 Pull off supporting core
- 5 Finished



Silicone Rubber CST Installation



Technical Performance

Properties	Typical Data	Test Method
Protection Grade	IP67 / IP68	IEC 60529
Tensile Strength	9.8Mpa	ASTM D412-75
Elongation at break	720%	ASTM D412-75
Tear Strength	27KN/m	ASTM D 624C-73
Dielectric Strength	14.3KV/mm	ASTM 149-75
IP68 Seal rate	Pass	GB4208-2008
Ozone Aging	Pass	ASTM D 1149
UV Resistance	Pass	ASTM G-53

Size from ID15mm ~ ID160mm, Length: 50mm ~ 1,200mm are available

More special requirements, please contact our sales consultant.

VE EPDM Cold Shrink Tube

Description

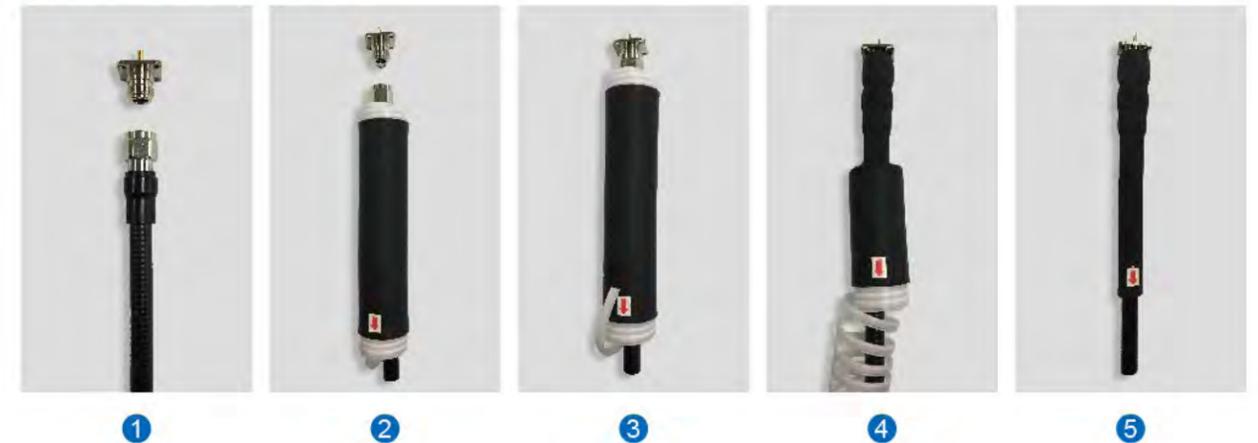
Made of EPDM rubber material. Reliable for seal connections, coaxial cables connector, splice and terminal lugs.

Feature

- IP67 / IP68 rate
- Simple installation
- UV resistance
- Acids and alkalis resistant
- Continuous Operating Temperature: -40°C-90°C
- Shrink ratio: 3.5:1
- Color: Black



Installation Steps



- 1 Clean the connector
- 2 Put on cold shrink tube
- 3 Install connector
- 4 Pull off supporting core
- 5 Finished



EPDM CST Installation



VSM Silicone Rubber Cold Shrink Tube with Mastic

Description

Excellent moisture sealing for telecom connectors and cables. The mastic at both ends provides excellent moisture-tight seals for termination and joints.

Feature

- Good weather resistance
- Seals tight
- UV resistance
- Ozone Aging resistant
- Continuous Operating Temperature: -60°C-200°C
- Shrink ratio: 4:1, 5:1
- IP67 / IP68 rate
- Color: Black, White, Grey



Technical Performance

Properties	Unit	Index	Typical Data	Test Method
Shore Hardness	Shore A	40±5	43	ASTM D 2240
Tensile Strength	MPa	>9.0	9.8	ASTM D 421
Elongation at break	%	>800	840	ASTM D 421
Tear Strength	kN/m	≥35.0	39	ASTM D 624
Breakdown Strength	kV/mm	≥20	23	ASTM D 149
Volume Resistivity	Ω.cm	≥1×10 ¹⁵	1×10 ¹⁵	ASTM D 257

Size from ID28mm ~ ID45mm, Length: 100mm ~ 200mm are available

More special requirements, please contact our sales consultant.

Installation Steps



- 1 Clean the connector
- 2 Put on cold shrink tube
- 3 Install connector
- 4 Pull off supporting core
- 5 Finished



Silicone Rubber CST
with Mastic Installation



VS Cold Shrink Breakout

Description

The cold shrink breakout is a rubber insulated finger sleeve which is pre-expanded on the pumpable support tube. It has excellent weather resistance, acid and alkali resistance and the same breath sealing effect. It is an ideal sealing product for communication cable, coaxial cable and medium and low voltage power cable.

Feature

- IP67 / IP68 rate
- Suitable for connection seals for different sizes
- Long-term moisture resistance and excellent waterproof resistance
- Weather resistance, Ozone aging resistance, UV resistance
- Excellent tear strength
- Easy installation
- Standard color: Black



Technical Performance

Properties	Typical Data	Test Method
Shore Hardness	40±5A	ASTM D2240-75
Tensile Strength	≥7.0MPa	ASTM D412-75
Elongation at break	≥600%	ASTM D412-75
Tear strength	≥27kN/m	ASTM D624C-73
Dielectric strength	≥20kV/mm	ASTM 149-75
Volume resistivity	≥2×10 ¹⁴ Ω.cm	ASTM 150
Dielectric constant	2.8 (50Hz)	/

Dimensions

Item	ID Before Shrink /mm		ID After Shrink /mm	
	Small End	Big End	Small End	Big End
1#	φ20±2	φ65±2	φ7+3mm	φ21+3mm
2#	φ25±2	φ80±2	φ9+3mm	φ29+3mm
3#	φ32±2	φ88±2	φ11+3mm	φ41+3mm

Installation steps



- 1 Choose the matched breakout
- 2 Put on the breakout
- 3 Pull off the supporting core of the big end
- 4 Big end Finished
- 5 Pull off the supporting core of the small end
- 6 Finished



Volsun Cold Shrink Breakouts



RF Weatherproofing Boots

Description

The silicone rubber cover is made of special silicone rubber material, which has the advantages of excellent physical and mechanical properties, puncture resistance and simple installation.

It is suitable for waterproof and moisture-proof seal of communication and cable TV connector and waterproof and dustproof protection of other types of connector.

Feature

- IP67 / IP68 rate
- Continuous Operating Temperature: -30°C~60°C
- Weather resistance, resistant to sun exposure, salt spray corrosion resistance and excellent tear strength
- Easy to install, no need for heating or special tools, no need for hot melt or tape to strengthen the seal
- Standard color: Black



Dimensions

Product Model	Size D(mm)	Suitable for the O.D. of joint small end (mm)	Suitable for the O.D. of joint big end (mm)	Length L(mm)	Application
VSWC35-3.5	Φ35	14.8	22.4/35.0	89	DIN 7/16 Connector
VSWC24-3.2	Φ24	14.8	15.0/24.0	80	4.3-10 Connector

Installation steps



- 1 Clean the connector
- 2 Choose the matched boots
- 3 Install the boot
- 4 Finished



VP-TAPE Electrical PVC Insulation Tape

Description

PVC Insulation Tape is an 8.5mil thick, all-weather PVC insulation tape. Has good shape, UV resistance, wear resistance, corrosion resistance, acid and alkali resistance.

Feature

- Operating temperature: -18°C ~+105°C
- Acid and alkali corrosion resistance
- UV resistance, wear resistance
- For indoor or outdoor applications



Technical Performance

Properties	Data	Test Method
Tensile strength	20lbs/in	ISO 37:2005
Elongation at break	250%	ISO 37:2005
Dielectric strength	1176V/mil	IEC 60243-1:2013
Voltage level	UL510 600V	/
Volume resistivity	$> 10^{12} \Omega$	ISO 4589-2

Specifications

Model	Color	Tape Width (mm)	Thickness (mm)	Length (m)
VP-T2	Black	19	0.19	20
VP-T2	Black	38	0.19	10
VP-T2	Black	50	0.19	10
VP-T2	Black	19	0.19	20
VP-T2	Black	15	0.15	10

Other colors are available on requests

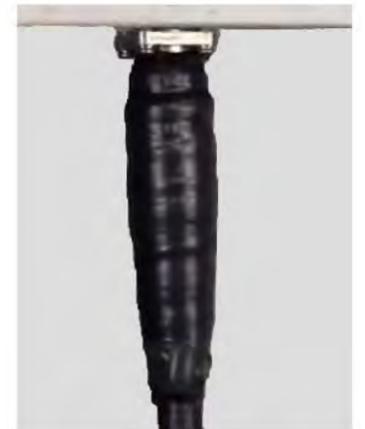
Installation steps



1



2



3

1 Clean the connector and cover the PVC tape

2 Wrap the tape in a semi-overlapping way, about 10cm beyond the joint when winding

3 Stretch thoroughly when using



VT Butyl Tape

Description

Butyl rubber as main materials, made of laminated film, with tensile shrinkage, insulation, waterproof, corrosion resistance. excellent physical and electrical properties.

Feature

- Operating temperature: -40°C ~+80°C
- Corrosion resistance, chemical resistance
- Moisture-proof insulation for electrical equipment.



Technical Performance

Properties	Data	Test Method
Tensile strength	2.0Mpa	ISO 37:2005
Elongation at break	550%	ASTM D412-75
Dielectric strength	18KV/mm	ASTM 149-75
Volume resistivity	$\geq 10 \cdot 10^{14} \Omega \cdot \text{cm}$	IEC 60093-1980

Specifications

Model	Color	Tape Width (mm)	Thickness (mm)	Length (m)
VT-T1	Black	63.5	0.6	3
VT-T1	Black	15	0.25	3

Other specifications are available on request.

VB-TAPE

When using, stretch the tape by about 600%, and wrap the five layers in a half-fold manner. The normal working temperature of the product is within 80 °C.





VWM-TAPE Waterproof Insulation Mastic Tape

Description

Used for irregular joint surfaces and outdoor operation for excellent water resistance, the outside should be protected with PVC tape.

Feature

- Insulation of low voltage (600V or less)
- Offers optimal adherence
- Used for irregular joint surfaces
- Waterproof and moisture-proof sealing



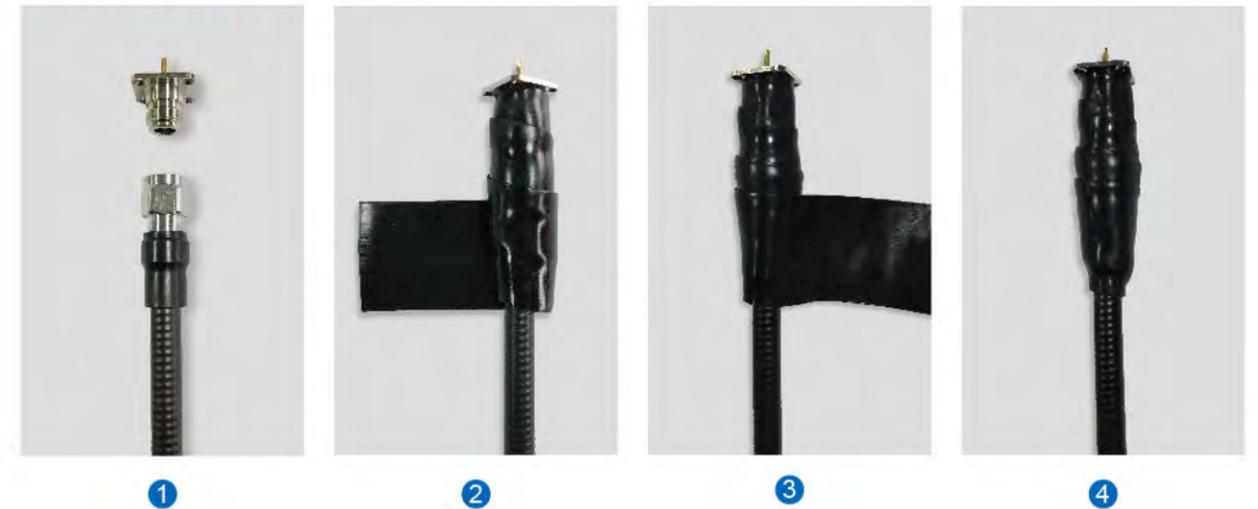
Technical Performance

Properties	Data	Test Method
Elongation at break	1000%	ASTM D412-75
Dielectric strength	226KV/mm	ASTM 149-75
Volume Resistivity	$10^{16} \Omega \cdot \text{cm}$	ISO 4589-2
Ozone Aging	No crack	ASTM D518
UV Resistance	No obvious change	ASTM G 154-2
Copper corrosion	No	ISO 812

Specifications

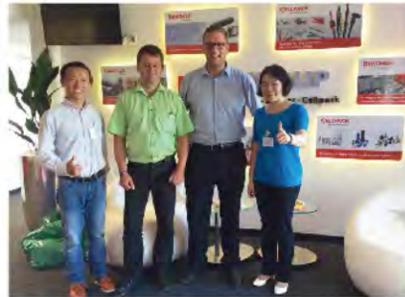
Model	Color	Tape Width (mm)	Thickness (mm)	Length (m)
VW-M1	Black	50	1.65	3

Installation steps

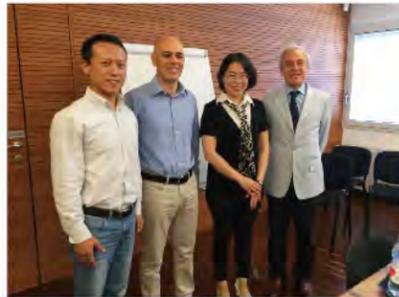


- 1 Clean the connector
- 2 Remove the paper and attach the tape to the joint
- 3 The starting and ending points of the tape winding should exceed the ends of the joint by 30~50cm
- 4 Use with PVC tape for better waterproof

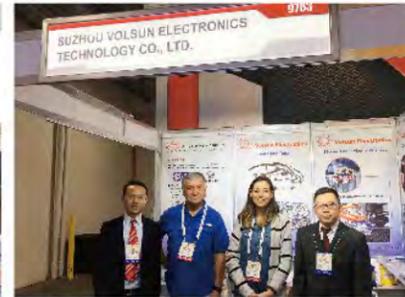
Together with Customers



Germany



Swiss



USA



France



Asian



Germany



Canada



Spain



Indonesia

Volsun kept high speed growth in the past decade. S & T changing the world. Service doubling the value. S & T continuous innovation is the foundation of our rapid development. Up till now, we have offered cold shrink products for several Top 10 Telecom companies, and established cooperation with 88 countries' customers in the world.



- Access to quality management system certification.
- RoHS Test Report available.
- Test Report (including IP67 / IP68, UV resistance, Ozone aging resistance, etc.) by SGS.

