

JNFLEX (CHANGZHOU) CO., LTD.

Our manufacturing sites are Certified  
ISO9001 and IATF16949.



JNFLEX (CHANGZHOU) CO., LTD.

常州市江南波纹管有限公司

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EQUIPMENT PRODUCT MANUAL

设备类 | 产品手册

WWW.JNFLEX.COM  
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# JNFLEX CHANGZHOU CO., LTD

## 常州市江南波纹管有限公司

1995

公司成立于1995年  
Founded in 1995

30<sup>+</sup>

30年以上行业经验  
Over 30 years of  
industry experience

1000<sup>+</sup>

上千家合作伙伴  
over 1000 partners

20<sup>+</sup>

20多项专利认证  
Over 20 patent  
certifications

To become the most valuable enterprise in flexible connection and protection solutions.

JNFLEX (CHANGZHOU) CO., LTD established in 1995 and located in Changzhou City, Jiangsu province, is a high-tech enterprise dedicated to providing customers with flexible connection and protection products and solutions. We specialize in the design, development, production, and technical service of various corrugated duct, flexible ducts and tubes, stainless bellows, and kinds of plastic corrugated hoses.

Since 1995, JNFLEX has grown into a large-scale enterprise with over 120 employees, more than 20% of whom are R&D personnel, having obtained ISO9001 and IATF16949 certifications. Our products serve a variety of industries, including construction and infrastructure, automotive and marine, high-speed trains, steel metallurgy, environmental protection, and new energy industry etc. We have established long-term collaborations with Fortune 500 companies both domestically and internationally. Our sales network spans more than twenty provinces, municipalities, and autonomous regions across China, and we exported to Europe, North America, Southeast Asia, Australia, South America, and Africa for many years.

"Customer Requirements Are Our Responsibility," we're dedicated to providing the tailor-made solution for each individual client, helping them succeed in their business, ensuring that our customers gain a competitive edge through attention to detail. "Stay hungry. Stay foolish."

JNFLEX is committed to growing with you and becoming a reliable partner on your path to success.

## 成为“柔性连接与防护”最具价值的公司

常州市江南波纹管有限公司成立于1995年, 公司位于江苏常州, 是一家集设计开发、生产制造、技术服务为一体的专业生产各种波纹管、伸缩软管、金属软管、塑料波纹管等管路连接和保护类产品, 致力于为顾客提供柔性连接和柔性保护类产品解决方案的高新技术企业。公司自创立以来, 已经发展成拥有120多名员工, 建筑面积30000平米的规模化企业, 其中研发人员占比20%以上, 公司高度重视加强品质保证和提升管理水平, 已通过ISO9001、IATF16949质量管理体系认证, 为建筑及基础设施、汽车船舶、高速列车、钢铁冶金、环保新能源等多个行业提供优质产品, 并与国内外500强企业建立长期合作关系。我们销售网络遍布中国二十多个省市自治区直辖市, 并出口到欧美东南亚澳洲南美非洲等国家和地区。

江南波纹管秉承“顾客的要求就是我们的责任”的经营理念, 始终追求更高的品质和致力于为客户提供最佳的个性化解决方案, 创造价值, 降低成本, 让客户赢在细节之上。Stay.hungry.Stay.foolish江南愿意与您共同发展, 成为您成功道路上忠诚的合作伙伴。

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DATA CENTER / 数据中心

METAL BRAIDED HOSE  
金属编织软管

产品介绍 Product Introduction

金属编制软管作为一种柔性耐压管件安装于液体输送系统中,用以补偿管道或机器、设备连接端的相互位移,吸收振动能量,能够起到减振、消音等作用,具有柔性好、质量轻、耐腐蚀、抗疲劳、耐高低温等多项特点。

Metal braided hose, as a flexible pressure resistant pipe fitting installed in liquid transportation systems, is used to compensate for the mutual displacement of pipelines, machines, and equipment connection ends, absorb vibration energy, and can play a role in vibration reduction, noise reduction, etc. It has multiple characteristics such as good flexibility, light weight, corrosion resistance, fatigue resistance, and high and low temperature resistance.



耐腐蚀性

Corrosion resistance



耐高压

High voltage resistance



防震

Shockproof



防错位

Anti misalignment



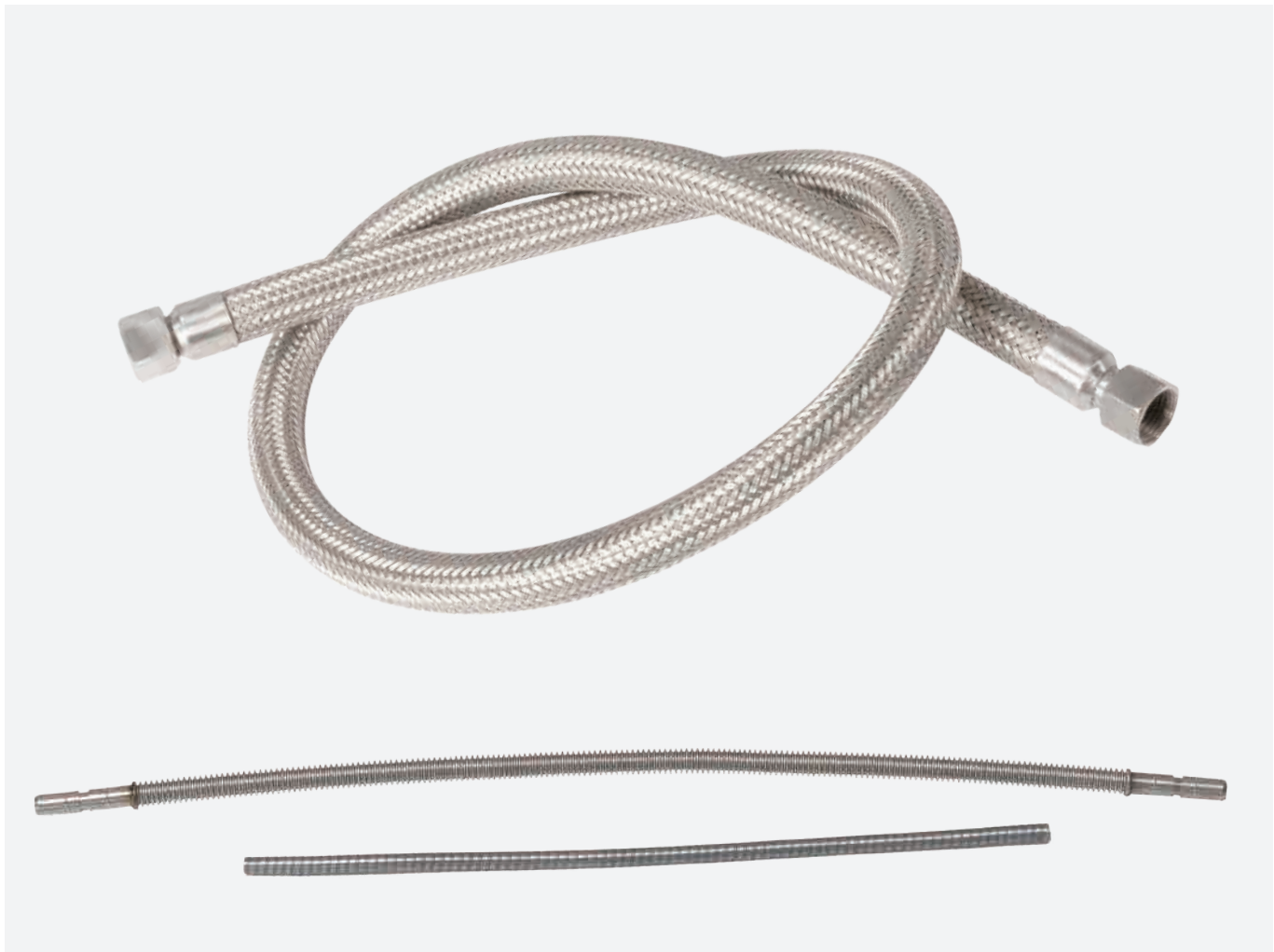
施工性好

Good construction performance



耐高温性

Temperature resistance



基本用途 Basic application

蒸汽, 水, 油等各种介质输送过渡

Transfer of various media such as steam, water, oil, etc

实验测试 Experimental testing

- 泄露测试  
Leakage testing
- 材料化学成分  
Chemical composition of materials
- 硬度  
Hardness
- ELV  
ELV
- 机械性能  
Mechanical properties
- 减薄率  
Reduction rate

性能测试 Performance Test

测试项目 Test Item	测试条件 Test Condition
减震 Shock absorption	
弥补安装误差 Compensate for installation errors	
耐腐蚀 Corrosion preventive	
抗疲劳 Resist fatigue	
耐高温 Temperature resistance	≥450℃
耐磨损 Wear resistance	

产品规格 Product Specification (mm)

规格 Specification (mm)	是否带编网 With braided mesh	材料 Material
DN6-DN250	Y/N	SUS 304/ SUS 316L
G1/4-G2		



CONNECTION / 连接

TELESCOPIC TUBE  
塑料伸缩管

产品介绍 Product Introduction

采用改性塑料材料和钢丝缠绕卷绕而成。  
Made by winding modified plastic material and steel wire.



任意弯曲不反弹  
Arbitrary bending without rebound



来回伸缩1万次不破裂  
Stretching and retracting  
10000 times without breaking



工作温度：-30℃~+120℃  
Working temperature: -30 °C~+120 °C



基本用途 Basic application

移动空调冷热空气传输、干被机空气传输、抽湿机空气传输、抽油烟机排气、通风扇排风、浴霸排风、污水排放  
Mobile air conditioning cold and hot air transfer, dry bed machine air transfer, dehumidifier air transfer, range hood exhaust, ventilation fan exhaust, bathroom heater exhaust, sewage discharge

实验测试 Experimental testing

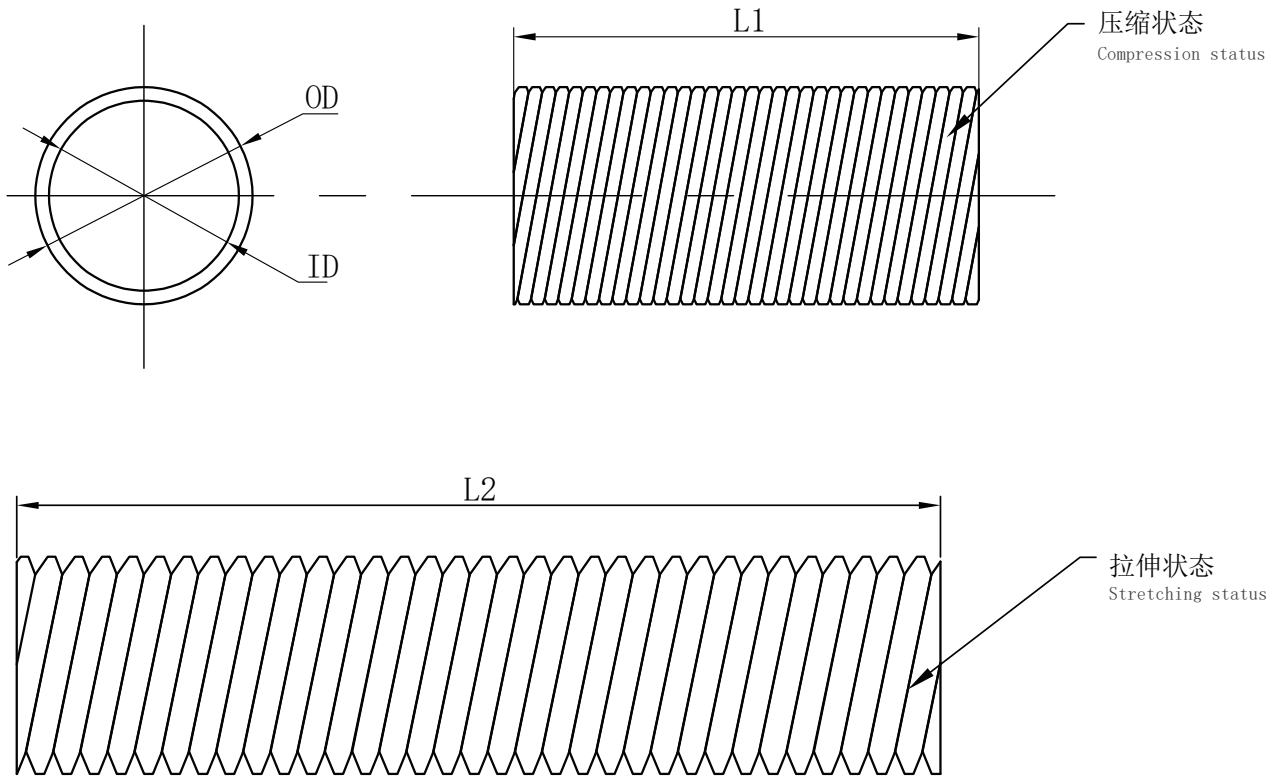
- ELV  
ELV
- 阻燃性能  
Flame retardant performance

性能测试 Performance Test

测试项目 Test Item
PE耐温80℃、PP耐温120℃、PA耐温130℃ PE temperature resistance 80 °C、PP temperature resistance 120 °C、PA temperature resistance 130

产品规格 Product Specification (mm)

内径 ID(mm)	颜色 Specifications	
32	黑色/灰色	Black/Grey
60	黑色/蓝色/红色/银色	Black/Blue/Red/Silver
65	黑色/蓝色/红色/银色	Black/Blue/Red/Silver
70	黑色/蓝色/红色/银色	Black/Blue/Red/Silver
75	黑色/蓝色/红色/银色	Black/Blue/Red/Silver
76	黑色/蓝色/红色/银色	Black/Blue/Red/Silver



## CONNECTION / 连接

## STAINLESS STEEL BELLOWS

# 不锈钢波纹管

## 产品介绍 Product Introduction

不锈钢波纹管作为一种柔性耐压管件安装于液体输送系统中,用以补偿管道或机器、设备连接端的相互位移,吸收振动能量,能够起到减振、消音等作用,具有柔性好、质量轻、耐腐蚀、抗疲劳、耐高低温等多项特点。

Stainless steel corrugated pipe, as a flexible and pressure resistant pipe fitting installed in liquid transportation systems, is used to compensate for the mutual displacement of pipes, machines, and equipment connection ends, absorb vibration energy, and can play a role in vibration reduction, noise reduction, etc. It has multiple characteristics such as good flexibility, light weight, corrosion resistance, fatigue resistance, and high and low temperature resistance.



### 耐腐蚀性

### Corrosion resistance



### 耐高压

High voltage resistance



## 防震

### Shockproof



### 防错位

### Anti misalignment



施工性好

Good construction performance



### 耐温性

Temperature resistance



## 基本用途 Basic Application

## 排气系统

Exhaust system

## 实验测试 Experimental testing

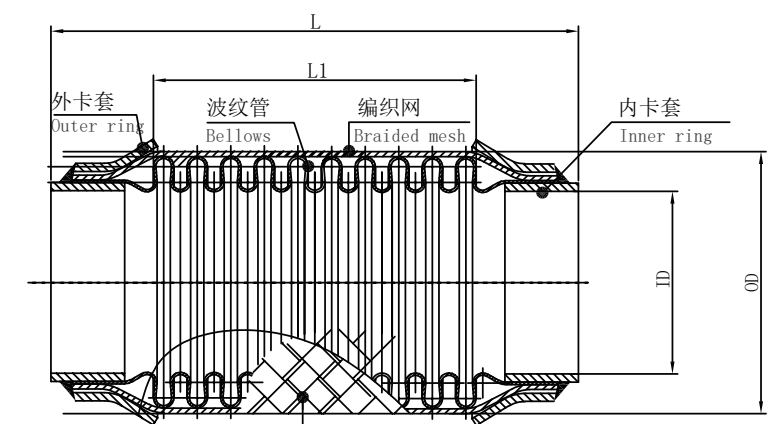
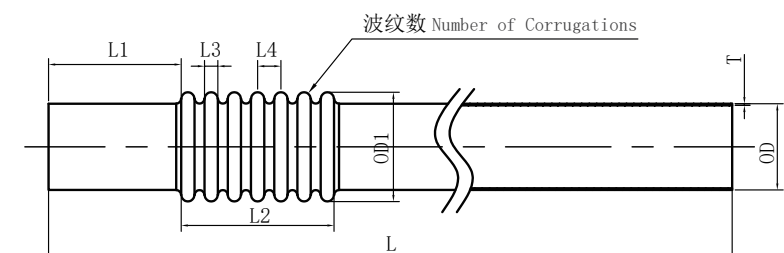
- 泄露测试  
Leakage testing
  - 材料化学成分  
Chemical composition of materials
  - 硬度  
Hardness
  - ELV  
ELV
  - 机械性能  
Mechanical performance
  - 减薄率  
Thinning rate

## 性能测试 Performance Test

测试项目 Test Item	测试项目 Test Item	测试项目 Test Item	测试条件 Test Condition
减震 Shock absorption	耐腐蚀 Corrosion resistance	耐温性 Temperature resistance	≥450℃
消音 Silencing	抗疲劳 Resist fatigue	耐磨损 Wear resistance	

### 产品规格 Product Specification (mm)

外径 OD (mm)	壁厚 Wall thickness (mm)	材料 Material
Φ9	0.5	不锈钢304 / SUS 304
Φ14	0.5	
Φ15	0.4	
Φ15	0.5	
Φ16	0.5	
Φ17	0.3	
Φ21	0.5	
Φ26	0.5	



内部为波纹管，外部包围不锈钢编织网

The interior is bellows and the exterior is surrounded by stainless steel braided wire mesh

ELECTRICAL / 电气

BRAIDED SLEEVE  
编织管

产品介绍 Product Introduction

采用耐磨丝编织而成。用于汽车磨擦较多的环境,套在胶管、线束外起耐磨和保护作用。

Abrasion-resistant braided sleeving constructed with engineered wear-resistant yarns, specifically designed for high-friction automotive applications to provide mechanical protection for rubber hoses and wiring harness assemblies.



耐水  
Water resistance

耐热  
Heat-resistant

优异的耐磨性  
Excellent wear resistance

与被保护软管配合紧密  
Closely cooperate with the protected hose

基本用途 Basic application

电脑周边连接线、HDMI、电脑电源线束、加工电器、汽车线束、灯饰、网络音频线、光缆、大型机械线路的保护与美化

Computer peripheral connection cable HDMI、Protection and beautification of computer power wiring harnesses, processing appliances, automotive wiring harnesses, lighting fixtures, network audio cables, optical cables, and large mechanical circuits

实验测试 Experimental testing

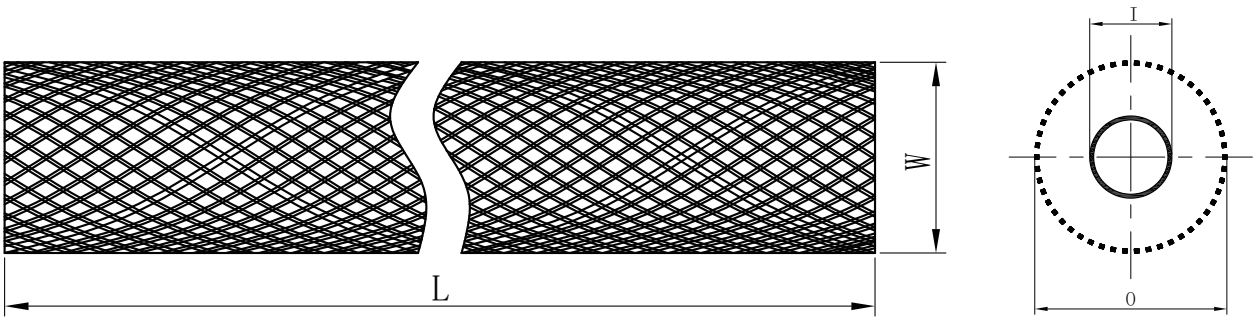
- 阻燃性能  
Flame retardant performance
- 耐试剂  
Resistant to reagents
- 耐高温  
High temperature resistance
- 烟毒性  
Smoke toxicity
- 耐磨性  
Wear resistance
- 耐老化  
Aging resistance

性能测试 Performance test

测试项目 Test Item	测试条件 Test Condition	测试项目 Test Item	测试条件 Test Condition	测试项目 Test Item	测试条件 Test Condition
工作温度 Operation temperature	-40°C~125°C	熔点 Melting point	240°C	阻燃等级 Flame retardant grade	FMV SS302

产品规格 Product Specification (mm)

扁平宽度 Flat width(mm)	内径范围 ID range(mm)	丝径 Wire diameter(mm)	结构 Material structure
7	φ3 - φ9	0.25/0.38	PET/PA6/PA66/PET+PA6/PET+PA66
9	φ5 - φ12		
10	φ7 - φ15		
14	φ7 - φ15		
16	φ10 - φ27		
19	φ14 - φ30		
25	φ18 - φ33		
32	φ25 - φ37		





ELECTRICAL / 电气

HEAT SHRINK SLEEVE  
热缩管

产品介绍 Product Introduction

由高韧性聚酯多丝和高耐性聚酯多丝编织, 经特殊设计的粘合系统加工而成。

Engineered composite braid comprising high-tenacity polyester multifilament and ultra-wear-resistant polyester multifilament yarns, integrated through proprietary thermofusion bonding technology.



工作温度最高可达150°C

The maximum working temperature can reach 150 °C



预热收缩, 收缩比为2:1

Preheating shrinkage, with a shrinkage ratio of 2:1



优异的耐磨性

Excellent wear resistance



配合紧密

Closely coordinated



重量轻

Light weight



降噪

Noise reduction

基本用途 Basic application

为橡胶管和其他管道提供优良的抗耐磨性能

Provide excellent wear resistance for rubber pipes and other pipelines

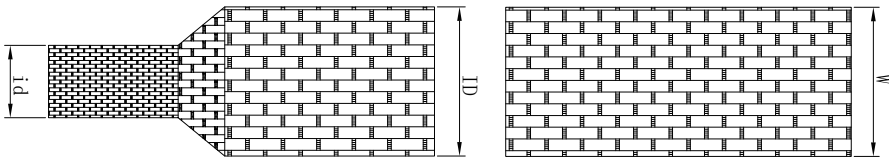
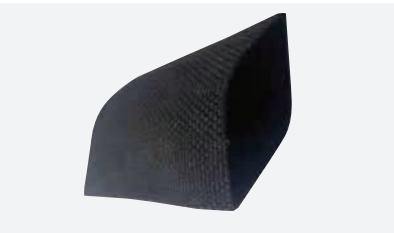
实验测试 Experimental testing

- ELV
- ELV
- 阻燃性能
- Flame retardant performance

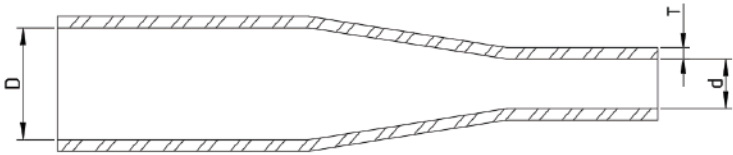
性能测试 Performance test

测试项目 Test Item	测试条件 Test Condition
温度等级 Temperature level	150°C
最低收缩温度 Minimum shrinkage temperature	100°C
最低完全恢复温度 Minimum complete recovery temperature	150°C
纵向收缩 Longitudinal contraction	10%
最大储存温度 Maximum storage temperature	60°C
热老化 Thermal aging	150°C条件下, 3000小时, 不退化 Under 150 °C conditions, no degradation after 3000 hours
液体阻力 Liquid resistance	应用于汽车流体后无可见退化和蚀变 No visible degradation or alteration after application to automotive fluids

产品规格 Product Specification (mm)



规格 Specification (mm)	扁平宽度 Flat width(mm)	收缩前内径 ID before contraction(mm)	收缩后内径 id after contraction(mm)
φ6.0/3.0	12	≥φ7	≤φ3
φ8.0/4.0	16	≥φ8	≤φ4
φ10.0/5.0	20	≥φ10	≤φ5
φ12.0/6.0	24	≥φ12	≤φ6
φ16.0/8.0	29	≥φ16	≤φ8
φ20.0/10.0	36	≥φ20	≤φ10
φ25.0/12.5	44	≥φ25	≤φ12.5
φ30.0/15.0	53	≥φ30	≤φ15
φ35.0/17.5	60	≥φ35	≤φ17.5
φ40.0/20.5	68	≥φ40	≤φ20.5
φ50.0/25.0	85	≥φ50	≤φ25
φ60.0/30.0	100	≥φ60	≤φ30
φ70.0/35.0	116	≥φ70	≤φ35
φ80.0/40.0	132	≥φ80	≤φ40
φ90.0/45.0	145	≥φ90	≤φ45



规格 Specification (mm)	收缩前内径 ID before contraction(mm)	收缩前壁厚 Wall thickness before contraction(mm)	收缩后内径 ID after contraction(mm)	收缩后壁厚 Wall thickness after contraction(mm)
φ1.5	2	0.2	≤0.8	0.4
φ2	2.5	0.2	≤1	0.42
φ2.5	3	0.22	≤1.25	0.42
φ3	3.5	0.25	≤1.5	0.46
φ3.5	4	0.25	≤1.75	0.46
φ4	4.5	0.25	≤2	0.48
φ4.5	5	0.25	≤2.25	0.48
φ5	5.5	0.25	≤2.5	0.48
φ6	6.5	0.25	≤3	0.5
φ6.5	7	0.3	≤3.25	0.58
φ7	7.5	0.3	≤3.5	0.58
φ8	8.5	0.36	≤4	0.7
φ9	9.5	0.36	≤4.5	0.72
φ10	10.5	0.36	≤5	0.72
φ11	11.5	0.36	≤5.5	0.72
φ12	12.5	0.36	≤6	0.72
φ13	13.5	0.36	≤6.5	0.72
φ14	14.5	0.36	≤7	0.72
φ15	15.5	0.36	≤7.5	0.72
φ16	16.5	0.36	≤8	0.72
φ17	17.5	0.36	≤8.5	0.72
φ18	18.7	0.4	≤9	0.78
φ20	20.7	0.4	≤10	0.8
φ22	22.7	0.46	≤11	0.86
φ25	25.7	0.46	≤12.5	0.9
φ28	29	0.46	≤14	0.94
φ30	31	0.46	≤15	1
φ35	36	0.5	≤17.5	1
φ40	41.5	0.5	≤20	1.05
φ45	46.5	0.5	≤22.5	1.05
φ50	52	0.55	≤25	1.15
φ55	57	0.55	≤28	1.15
φ60	62	0.58	≤30	1.2
φ70	72	0.58	≤35	1.2
φ80	82	0.6	≤40	1.2

ELECTRICAL / 电气

SELF WINDING TEXTILE SLEEVE  
自卷纺织套管

产品介绍 Product Introduction

采用耐磨丝编织而成。用于汽车磨擦较多的环境，套在胶管、线束外起防磨和保护作用。

Abrasion-resistant braided sleeving constructed with high-tenacity wear yarns, engineered for high-friction automotive environments to provide mechanical protection for hoses and wiring harness assemblies.



优良的耐水性  
Excellent water resistance

优良的耐热性  
Excellent heat resistance

优异的耐磨性  
Excellent wear resistance

配合紧密  
Closely coordinated

基本用途 Basic application

电脑周边连接线、HDMI、电脑电源线束、加工电器、汽车线束、灯饰、网络音频线、光缆、大型机械线路的保护与美化

Protection and beautification of computer peripheral cables, HDMI, computer power harnesses, processing appliances, automotive wiring harnesses, lighting fixtures, network audio cables, optical cables, and large mechanical circuits

实验测试 Experimental testing

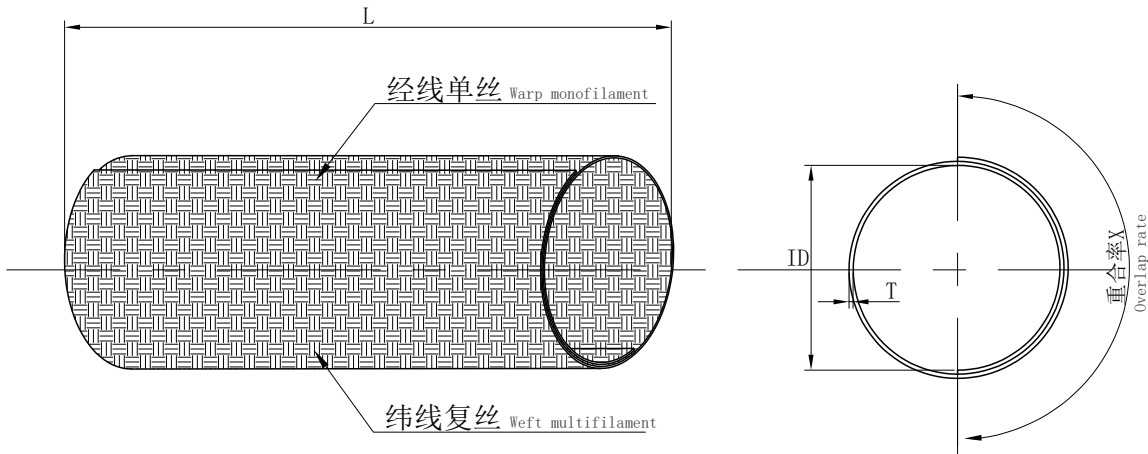
- 阻燃性能 Thermal insulation performance
- 烟毒性 Smoke toxicity
- 耐化学试剂 Chemical resistant reagents
- 耐磨性 Wear resistance
- 耐高温 High temperature resistance
- 耐老化 Aging resistance

性能测试 Performance test

测试项目 Test Item	测试条件 Test Condition	测试项目 Test Item	测试条件 Test Condition	测试项目 Test Item	测试条件 Test Condition
工作温度 Operation temperature	-50°C~150°C	熔点 Melting point	240°C	阻燃等级 Flame retardant grade	FMV SS302

产品规格 Product Specification (mm)

内径 ID(mm)	展开宽度 Expansion width	最大束线范围 Maximum cable range	重合率 Overlap rate	厚度 Thickness (mm)	内径 ID(mm)	展开宽度 Expansion width	最大束线范围 Maximum cable range	重合率 Overlap rate	厚度 Thickness (mm)
5	25	6	25%	0.6±0.15	5	28	6	50%	0.6±0.15
8	40	9			8	38	9		
10	45	11			10	50	11		
13	60	14			13	60	14		
16	70	17			16	80	17		
19	85	20			19	100	20		
25	105	26			25	120	27		
29	120	30			29	135	31		
32	135	33	50%	0.6±0.15	32	155	34		
38	160	40			38	180	40		
					50	230	52		





ELECTRICAL电气

FOAM SHEATH  
发泡护套

产品介绍 Product Introduction

作为一种弹性好、耐磨、耐热、耐气候、耐臭氧、耐淡水和海水性能非常好的橡胶,被广泛用于汽车部件、建筑用防水材料、电线电缆护套、耐热胶管、胶带、汽车密封件等领域。

As a rubber with excellent elasticity, wear resistance, heat resistance, weather resistance, ozone resistance, and resistance to freshwater and seawater, it is widely used in fields such as automotive components, waterproof materials for construction, wire and cable sheaths, heat-resistant rubber hoses, tapes, and automotive seals.



基本用途 Basic application

在发动机冷却系统中的应用,此类材料具有一定的硬度,且具有抗拉伸、抗老化、抗腐蚀、耐候性等优势,所以也常被用于发动机冷却系统的密封圈、输送冷却液的软管,以及暖气、通风和空调管道的制作。

In the application of engine cooling system, this kind of material has a certain hardness, and has the advantages of tensile resistance, aging resistance, corrosion resistance, weather resistance, etc., so it is also often used in the production of sealing rings of engine cooling system, hoses for conveying coolant, and heating, ventilation and air conditioning pipes.

密封作用—车辆密封条。由于EPDM材料具有耐侯、减震、防水、防尘、隔音、装饰等作用,所以经常被用于汽车的前后风挡、车门、车窗、发动机舱、后备箱等部位,用来填补车身部件之间的间隙,以达到隔音作用。

Sealing function - vehicle sealing strip. Due to its weather resistance, shock absorption, waterproof, dustproof, soundproof, decorative and other functions, EPDM material is often used in the front and rear windshields, doors, windows, engine compartment, trunk and other parts of automobiles to fill the gaps between body components and achieve sound insulation.

在汽车机械拉带中的应用。此类材料的使用温度在 -40℃~120℃,对阳光、水和臭氧有一定的抵御作用,且能承受较高的动态和机械负荷,也被用于轮罩之间的联接和电瓶箱盖的紧固。

Application in automotive mechanical pull straps. The use temperature of this type of material is between -40℃ and 120℃, which has a certain resistance to sunlight, water, and ozone, and can withstand high dynamic and mechanical loads. It is also used for connecting wheel covers and fastening battery box covers.

实验测试 Experimental testing

- 阻燃性能  
Flame retardant performance
  - 吸水性  
Water absorption
  - 尺寸稳定性  
Dimensional stability
  - 耐臭氧  
Ozone resistance
- ELV  
ELV
  - 硬度  
Hardness
  - 粘接强度  
Adhesion
  - 隔热性能  
Thermal insulation perfor-
- 密度  
Density
  - 压缩回弹率  
Compression resilience ratio

性能测试 Performance Test

测试项目 Test Item
<b>耐老化特性,耐气候、耐臭氧、耐日光、耐热、耐水、耐水蒸气、耐紫外线、耐辐射性能</b> Aging resistance, weather resistance, ozone resistance, sunlight resistance, heat resistance, water resistance, water vapor resistance, UV resistance, and radiation resistance
<b>耐化学药品特性,耐酸、碱、洗涤剂、动植物油、醇、酮等; 杰出的耐水、耐过热水、耐水蒸气性能、耐极性油性能</b> Chemical resistance characteristics, including acid, alkali, detergent, animal and vegetable oils, alcohols, ketones, etc; Outstanding water resistance, overheating resistance, steam resistance, and polar oil resistance
<b>绝缘性能,体积电阻率1016Q·cm、击穿电压30~40MV/m、介电常数(1kHz, 20℃)2.27</b> Insulation performance, volume resistivity 1016Q·cm, breakdown voltage 30~40 MV/m, dielectric constant (1kHz, 20℃) 2.27.
<b>适用温度范围广,最低使用温度-40~-60℃,可长期在130C条件下使用</b> Widely applicable temperature range, with a minimum operating temperature of -40~-60℃, and can be used for a long time under 130C conditions.

产品规格 Product specifications (mm)

内径 ID (mm)	壁厚 Wall thickness (mm)	材料 Material
φ8	2.5-5	EPDM/PVC/NBR 可覆铝箔或铝箔玻纤 Can be covered with aluminum foil or aluminum foil fiberglass
φ9	3-10	
φ12.7	3-10	
φ12	3-10	
φ14	3-10	
φ15	3-10	
φ16	3-10	
φ17	3-10	
φ18	3-10	
φ19	3-10	
φ20	3-10	
φ21	3-10	
φ23	3-10	
φ24	3-10	
φ25	3-10	
φ26	3-10	
φ27	3-10	
φ28	3-10	
φ29	3-10	
φ31	3-10	
φ33	3-10	
φ37	3-10	

ELECTRICAL / 电气

PLASTIC CORRUGATED PIPE  
塑料波纹管

产品介绍 Product Introduction

为汽车空调制冷剂管、汽车线束等部件提供抗冲击、防摩擦、抗压保护。空调制冷剂管等部件提供抗冲击、抗压保护、保温；也可用于机械制造、汽车制造, 航空设备, 地铁, 火车、自动化控制等行业。

Engineered protective solutions deliver impact resistance, abrasion protection, and compressive strength for automotive A/C refrigerant lines, wiring harness assemblies, and critical components. These systems provide integrated thermal insulation for refrigerant conduits while offering multi-axial mechanical protection. The technology is cross-industry adaptable, serving automotive manufacturing, aerospace equipment, rail transit systems (metro/rolling stock), and industrial automation controls.



重量轻  
Light weight

自由弯曲  
Free bending

弯曲时不改变截面积  
Bending does not change the cross-sectional area

可以承受脚踩的重压，  
迅速恢复，本身无任何损伤  
Foot-traffic resistant elastomeric recovery with non-destructive resilience

耐水耐油，耐热耐腐蚀  
Water and oil resistance, heat and corrosion resistance

基本用途 Basic application

电气绝缘保护、照明设备保护  
Electrical insulation protection, lighting equipment protection

实验测试 Experimental testing

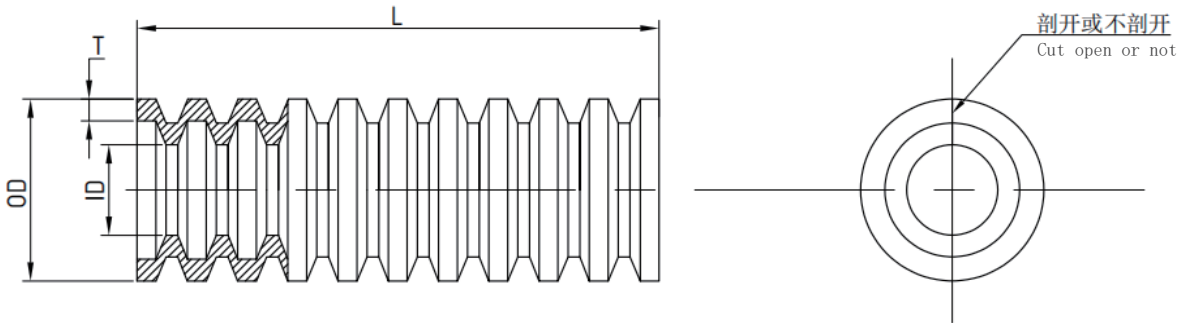
- ELV ELV
- 阻燃性能 Flame retardant performance

性能测试 Performance Test

测试项目 Test Item	测试条件 Test Condition
抗压性能 Compressive performance	125N,卸荷15min 125N, unloading for 15 minutes
弯曲性能 Bending performance	室温:无可见裂纹、量规自重通过;-15℃:无可见裂纹、量规自重通过; Room temperature: no visible cracks, gauge weight passes through- 15 ℃: No visible cracks, gauge weight passes through;
弯扁性能 Bending and flattening performance	60℃, 24h量规自重通过 At 60 ℃ for 24 hours, the weight of the gauge passes through
跌落性能 Drop performance	20℃ 2h:无震、破碎 20 ℃ for 2 hours: no vibration, broken
冲击性能 Impact performance	-15℃ 2H 1.0J;12个试样不坏、不裂 -15℃ 2H 1.0J; 12 samples remain intact and crack free
耐热性能 Heat resistance performance	60℃1.0kg 24h:量规自重通过 60 ℃ 1.0kg 24h: gauge weight passes through
阻燃性能 Flame retardant performance	无明显火焰传播, 离开火焰30S内自熄 No obvious flame propagation, self extinguishing within 30 seconds after leaving the flame
电气性能 Electrical performance	绝缘强度:绝缘电阻≥100MΩ Insulation strength: Insulation resistance ≥ 100M Ω
耐油性能 Oil resistance performance	20℃ 90#汽车浸泡48h:紧密、均匀、不松散 Soak 90 # car at 20 ℃ for 48 hours: tight, uniform, and not loose
耐温试验 Temperature resistance test	低温:-40℃/4H。高温:PA 150℃/4H;PP 120℃/4H;PE 80℃/4H Low temperature:- 40 ℃/4H. High temperature: PA 150 ℃/4H; PP 120℃/4H; PE 80℃/4H

产品规格 Product specification (mm)

内径 ID (mm)	外径 OD (mm)	材料 Material	是否剖开 Cut Open	内径 ID (mm)	外径 OD (mm)	材料 Material	是否剖开 Cut Open
Φ5.4	Φ7.6	PE/PP/PA	Y/N	Φ18.5	Φ23.5	PE/PP/PA	Y/N
Φ6.8	Φ9.6	PE/PP/PA	Y/N	Φ19.7	Φ24.1	PE/PP/PA	Y/N
Φ8.1	Φ11.7	PE/PP/PA	Y/N	Φ22.5	Φ28.6	PE/PP/PA	Y/N
Φ9	Φ12.5	PE/PP/PA	Y/N	Φ23.7	Φ27.5	PE/PP/PA	Y/N
Φ10.4	Φ14.6	PE/PP/PA	Y/N	Φ25	Φ29.5	PE/PP/PA	Y/N
Φ11.7	Φ15.5	PE/PP/PA	Y/N	Φ26.3	Φ33	PE/PP/PA	Y/N
Φ12.8	Φ17.4	PE/PP/PA	Y/N	Φ28.5	Φ33.5	PE/PP/PA	Y/N
Φ14.5	Φ18.5	PE/PP/PA	Y/N	Φ32	Φ38	PE/PP/PA	Y/N
Φ15.2	Φ19.4	PE/PP/PA	Y/N	Φ36.5	Φ42.5	PE/PP/PA	Y/N
Φ16.3	Φ20.5	PE/PP/PA	Y/N	Φ40	Φ45.5	PE/PP/PA	Y/N
Φ17	Φ21.2	PE/PP/PA	Y/N				



ELECTRICAL/ 电气

SPIRAL SHEATH  
螺旋护套

产品介绍 Product Introduction

螺旋保护套是一种以聚丙烯(PP)、聚乙烯(PE)或尼龙(PA)为原料,采用热态缠绕定型挤出工艺制成的螺旋状护套。  
是一种替代传统胶管保护用金属护簧的新型产品

Spiral protective sleeve is a spiral shaped sheath made of polypropylene (PP), polyethylene (PE) or nylon (PA) as raw materials, using hot winding and extrusion technology.  
It is a new type of product that replaces traditional rubber hose protection with metal guard springs



安装简便  
Easy to install



优异的耐磨性  
Excellent wear resistance



抗老化  
Anti aging



优良的耐化学性  
Excellent chemical resistance

基本用途 Basic application

增强液压胶管、电线、电缆等内部产品的耐磨、抗静电和抗紫外线性能,在各种恶劣环境下对液压胶管等内部产品起到安全保护作用  
Enhance the wear resistance, anti-static, and UV resistance of internal products such as hydraulic hoses, wires, and cables, providing safety protection for hydraulic hoses and other internal products in various harsh environments

实验测试 Experimental testing

- 耐磨性更好  
Better wear resistance
- 抗老化  
Anti-aging
- 抗腐蚀性性能强  
Strong corrosion resistance

性能测试 Performance Test

测试项目 Test Item	测试项目 Test Item	测试项目 Test Item
耐高低温 High low temperature	抗静电 Antistatic	抗拉伸 Stretch Resistance
耐油 Oil resistance	抗冲击 Impact resistance	硬度优 Excellent hardness
抗紫外线 UV resistance		

产品规格 Product Specification (mm)

口径 Diameter (mm)	材质 Material	颜色 Colour
φ8	PP/PE/PA等 PP/PE/PA, etc	黑色, 黄色, 红色, 蓝色 Black, yellow, red, blue
φ10		
φ12		
φ14		
φ16		
φ18		
φ20		
φ22		
φ25		
φ28		
φ30		
φ32		
φ35		
φ38		
φ42		
φ45		
φ50		
φ60		
φ70		
φ80		
φ90		
φ100		
φ110		
φ120		



ELECTRICAL / 电气

BUTTON COVER  
纽扣护套

产品介绍 Product Introduction

由无纺布氧化碳、外表叠覆铝箔的玻璃纤维布以及胶带等两种或多种材料制成；  
常用于汽车系统中各部位尼龙接头处的隔热、耐磨保护

Made of two or more materials such as non-woven carbon oxide, glass fiber cloth with aluminum foil overlay on the surface, and adhesive tape;





**可定制设计**  
Customizable design



**优良的防辐射热**  
Excellent anti radiation heat



**优良的反射绝缘**  
Excellent reflective insulation



**配置内扣, 安装方便**  
Configure internal buckle for easy installation



**优良的耐热性**  
Excellent heat resistance



**重量轻**  
Light weight

基本用途 Basic application

软管、塑料部件、管道、任何需要自固定热防护的区域  
Hoses, plastic parts, pipes, any area that requires self securing thermal

实验测试 Experimental testing

- ELV ELV
- 阻燃性能 Flame retardant performance
- 隔热性能 Thermal insulation performance

性能测试 Performance Test

测试项目 Test Item	测试项目 Test Item
耐高温 High temperature resistance	耐磨 Wear resistant
阻燃性能 Flame retardant performance	耐腐蚀 Corrosion preventive
防火 Fireproof	

产品规格 Product Specification (mm)

材料 Material	
复合玻纤布	Composite glass fiber cloth
芳纶线	Aramid yarn
纽扣	Button

SEAM SHEATH  
缝口护套

产品介绍 Product Introduction

由铝箔玻纤布、玻璃纤维毡以及铝箔胶带等多种材料制成；  
常用于汽车系统中各部位尼龙接头处的隔热、耐磨保护

Made of various materials such as aluminum foil fiberglass cloth, fiberglass felt, and aluminum foil tape;  
Commonly used for insulation and wear-resistant protection at nylon joints in various parts of automotive systems





**可定制设计**  
Customizable design



**优良的防辐射热**  
Excellent anti radiation heat



**重量轻**  
Light weight



**优良的反射绝缘**  
Excellent reflective insulation



**优良的耐热性**  
Excellent heat resistance

基本用途 Basic application

软管、塑料部件、管道、任何需要自固定热防护的区域  
Hoses, plastic parts, pipes, any area that requires self securing thermal

实验测试 Experimental testing

- ELV ELV
- 阻燃性能 Flame retardant performance
- 隔热性能 Thermal insulation performance

性能测试 Performance Test

测试项目 Test Item	测试项目 Test Item
耐高温 High temperature resistance	耐磨 Wear resistant
阻燃性能 Flame retardant performance	耐腐蚀 Corrosion preventive
防火 Fireproof	

产品规格 Product Specification (mm)

材料 Material	
复合玻纤布	Composite glass fiber cloth
芳纶线	Aramid yarn
纽扣	Button

ENERGY STORAGE CABINET / 储能柜

NYLON TUBE  
尼龙管

产品介绍 Product Introduction

尼龙管用于防止机油变质,防止曲轴油封、曲轴箱衬垫渗漏,防止各种油蒸气污染大气,输送冷却液等,适用于汽车曲轴箱通风系统和冷却系统;

Nylon tubing is used to prevent engine oil deterioration, prevent leakage of crankshaft oil seals and crankcase liners, prevent various oil vapors from polluting the atmosphere, and transport coolant. It is suitable for automotive crankcase ventilation and cooling systems;



重量轻

Light weight



自由弯曲方便安装

Free bending for easy installation



弯曲时不改变截面面积

Bending does not change the cross-sectional area



阻燃绝缘, 绝缘性优良

Flame retardant insulation with excellent insulation properties



耐水耐油, 耐热耐腐蚀

Water and oil resistance, heat and corrosion resistance



可以承受脚踩的重压, 迅速恢复, 本身无任何损伤

Can withstand the heavy pressure of foot pressure, Quickly recover without any damage to itself



内外均为波浪型 (可根据客户需要开口)

Free bending

基本用途 Basic application

冷却水输送、回收未充分燃烧的油气

Cooling water transportation and recovery of oil and gas that have not been fully burned

实验测试 Experimental testing

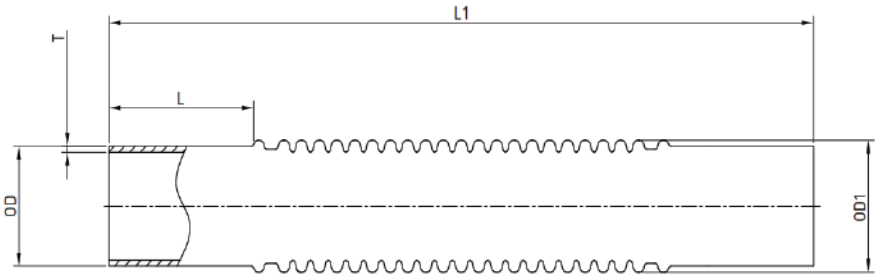
- |                                       |  |                                  |                                   |
|---------------------------------------|--|----------------------------------|-----------------------------------|
| • 阻燃性能<br>Flame retardant performance | • 热变形温度<br>Heat distortion temperature | • 爆破压力<br>Burst pressure         | • 断裂伸长率<br>Elongation rate        |
| • ELV<br>ELV                          | • 拉伸模量<br>Tensile modulus              | • 弯曲性能<br>Flexural properties    | • 清洁度<br>Cleanliness              |
| • 密度<br>Density                       | • 热老化<br>Thermal ageing                | • 低温冲击<br>Low temperature impact | • 真空吸瘪<br>Vacuum suction collapse |
| • 熔融温度<br>Melting temperature         | • 耐渗透<br>Penetration resistance        | • 屈服应力<br>Yield stress           |                                   |

性能测试 Performance Test

测试项目 Test Item	测试条件 Test Condition
抗压性能 Compressive performance	125N,卸荷15min 125N, unloading for 15 minutes
弯曲性能 Flexural properties	室温:无可见裂纹、量规自重通过; -15℃:无可见裂纹、量规自重通过; Room temperature: no visible cracks, gauge weight passes through- 15 ℃: No visible cracks, gauge weight passes through;
弯扁性能 Bending and flattening performance	60℃, 24h量规自重通过 At 60 ℃ for 24 hours, the weight of the gauge passes through
跌落性能 Drop performance	20℃ 2h:无震、破碎 20 ℃ for 2 hours: no vibration, broken
冲击性能 Impact resistance	-15℃ 2H 1.0J;12个试样不坏、不裂 -15℃ 2H 1.0J; 12 samples are not damaged or cracked
耐热性能 Heat resistance performance	60℃1.0kg 24h:量规自重通过 60 ℃ 1.0kg 24h: gauge weight passes through
阻燃性能 Flame retardant performance	无明显火焰传播, 离开火焰30S内自熄 No obvious flame propagation, self extinguishing within 30 seconds after leaving the flame
电气性能 Electrical performance	绝缘强度:绝缘电阻≥100MΩ Insulation strength: Insulation resistance ≥ 100M Ω
耐油性 Oil resistance	20℃ 90#汽油浸泡48h:紧密、均匀、不松散 Soak 90 # gasoline at 20 ℃ for 48 hours: tight, uniform, and not loose
耐温试验 Temperature resistance test	低温:-40℃ 4h;高温150℃ 4h Low temperature:- 40℃ 4h; High temperature of 150 ℃ for 4 hours

产品规格 Product specification (mm)

外径 OD (mm)	壁厚 Wall thickness (mm)	材料 Material
φ8	1(-0.1,+0.2)	PA6/PA12/PA612
φ10	1.25±0.2	PA6/PA12/PA612
φ12.5	1(-0.1,+0.2)/1.25±0.2	PA6/PA12/PA612
φ14	1(-0.1,+0.2)/1.25±0.2	PA12
φ16	1(-0.1,+0.2)/1.25±0.2	PA6/PA12/PA612
φ19	1.25±0.2/1.5 (0, +0.3)	PA12
φ22	1(-0.1,+0.2)/1.25±0.2/1.5	PA6/PA12/PA612
φ29	2±0.2	PA12



ANCHOR BOLT / 地脚螺栓

PRESTRESSED METAL CORRUGATED PIPE  
预应力金属波纹管

产品介绍 Product Introduction

金属波纹管是以钢带绕制并压出凹凸波纹的管子产品还具有通用性好、互换性好、配套合理、使用方便等特点

Metal corrugated pipe is a pipe product made by winding steel strip and extruding concave convex ripples. It also has the characteristics of good universality, interchangeability, reasonable matching, and easy use



重量轻  
Light weight



刚度大  
High Stiffness



严密性好  
Good tightness



附着抗拔力强  
Strong adhesion and pull-out resistance



能确保施工质量  
Can ensure construction quality



缩短工期  
Shorten construction period



基本用途 Basic application

后张法预应力钢筋混凝土桥梁、钢筋混凝土桥梁、大口径地脚螺栓预留孔用、建筑或构筑墙体的基础管线预埋管

Post tensioned prestressed reinforced concrete bridges, reinforced concrete bridges, reserved holes for large-diameter anchor bolts, and embedded pipes for foundation pipelines of buildings or constructed walls

实验测试 Experimental testing

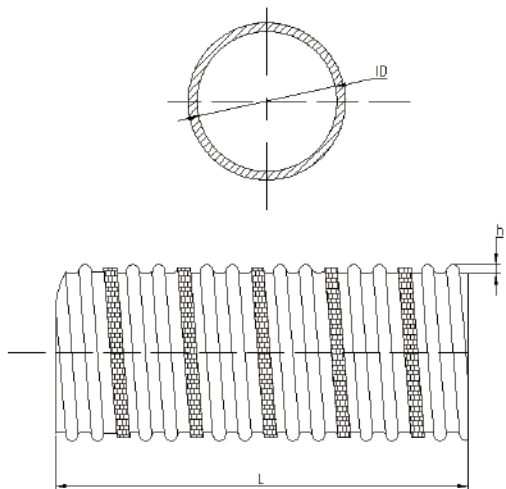
- 轴向拉力试验  
Axial tensile test
- 弯曲试验  
Bending test
- 撑力弹性  
Supporting elasticity
- 盐雾试验  
Salt spray test

性能测试 Performance Test

测试项目 Test Item	测试项目 Test Item
径向刚度 Radial stiffness	抗渗漏性能 Anti-leakage performance

产品规格 Product specification (mm)

内径 ID (mm)	材料厚度 Material thickness (mm)	材料 Material
φ32 φ75 φ120 φ165	0.25/0.3	黑钢带 Black steel strip
φ35 φ80 φ125 φ170		
φ40 φ85 φ130 φ175		
φ45 φ90 φ135 φ180		
φ50 φ95 φ140 φ200		
φ55 φ100 φ145 φ220		镀锌钢带 Galvanized steel strip
φ60 φ105 φ150 φ250		
φ65 φ110 φ155 φ280		
φ70 φ115 φ160 φ300		



EQUIPMENT AND MACHINERY INDUSTRY  
设备机械行业

| 管路在储能行业的应用 |

The application of pipelines in the energy storage industry

配件可根据需求选型

Accessories can be selected according to needs

