LESSO

Stock Code: 2128.HK

METAL CONDUIT AND SUPPORTING PRODUCTS



LESSO GROUP

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Contents

Group Profile	2
Company Introduction	4
Galvanized Steel Conduit	5
Accessories	9
Product Features	13
Production & Testing Equipment	15
Process Flow	17
Cooperative Partners	18
Project Cases	19
Honors and Certificates	21

Group Profile

Established in 1986, LESSO (Stock Code: 02128.HK) is a global leader in home furnishings and building materials. The Group's business portfolio spans plastic piping, building materials and home furnishings, new energy and others. It offers a wide range of products such as pipes, new energy solutions, sanitary ware, integrated kitchen cabinets, integrated doors and windows, water purifiers, water-proofing materials and sealants, fire-fighting equipment, valves, wires and cables, switches and sockets, roof sheets, items for environmental protection, agricultural facilities, and ocean aquaculture cages. In 2023, LESSO's sales revenue reached over USD **4.38 billion.**

With the advancement of internationalization and globalization, LESSO has established more than **30** advanced production bases in **19** provinces across China and some foreign countries, and its industrial and sales networks cover regions and countries in five continents: Asia, Africa, North America, South America, and Europe. LESSO remains committed to improving its strategic layout to broaden its sales networks and expand its market reaches, enabling it to provide customers with diverse products and professional services in a timely and efficient manner.



LESSO Research Institute & Testing Center



LESSO College



Training Apartment

LESSO has established its R&D center with over **1,000** scientific researchers. It now possesses forty-three national high-tech enterprises, one nationally accredited enterprise technology center, two post-doctoral research centers, six nationally accredited CNAS laboratories, one key laboratory for plastic molding processing technology enterprise in Guangdong Province, and one industrial technology innovation alliance for plastic piping in Guangdong Province. LESSO now boasts over **3,100** patents (some of them are pending). Its scientific achievements are included in the National Torch Program Project, the National Key New Products, the Scientific and Technological Achievements Promotion Project in the National Construction Industry, and the Government Green Procurement List. LESSO has been awarded many honorary titles by relevant national departments such as the National Manufacturing Individual Champion Demonstration Enterprise, the National Intellectual Property Demonstration Enterprise, the China Construction Science and Technology Independent Innovation Advanced Enterprise, and the Industrialization Demonstration Base of the Ministry of Construction. It has won numerous prizes, including the First Prize for Scientific and Technological Progress of the China National Light Industry Council, the First Prize for Scientific and Technological Progress of the Ministry of Education of PRC, the First Prize for Scientific and Technological Progress in the Guangdong Province, the First Prize for Technological Invention in Guangdong Science and Technology Award, the Excellence Award of China Patent Award, the Honorable Mention Award of China Quality Award, and the Guangdong Provincial Government Quality Award.

3100+
Patented technologies

30+
Production bases

100000+
Products

19
provinces

Company Introduction

GUANGDONG LESSO SAFETY & FIRE PROTECTION TECHNOLOGY CO., LTD.



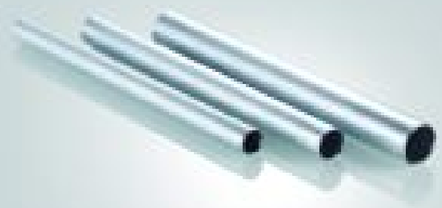
INTRODUCTION

Guangdong Lesso Safety & Fire Protection Technology Co., LTD. is a wholly-owned subsidiary of China LESSO Group Holdings Limited (LESSO,SEHK Stock Code:.2128). It is one of large-scale enterprises of producing security products in south China, and integrates R&D, production and sale. Firefighting products include fire extinguishers, fire hydrant boxes, fire extinguisher boxes, heptafluoropropane fire extinguishing systems, miniature fire stations, non-powered air-purifying respirators, firestop collars,fire resistant doors, fire resistant windows, fire rolling shutters, rolling shutter smoke blocking vertical walls, etc. Products are well praised and favored by customers because of their reliable quality, reasonable price, unique design, novel appearance style, exquisite workmanship, energy-saving and environment-friendly performance, etc.

We have a modern management system of information and automatic production management, and can provide all kinds of security products and services. We have a technical team consisted of domestic firefighting experts, and have well-equipped workshops and test laboratories. Equipped with advanced horizontal machining centers, NC lathe devices, spraying production lines, and automatic assembly lines, we can independently complete the whole production from R&D, design, process, spraying to assembly. We are highly productive, and excellent in independent R&D.
We keep the spirit of forging ahead, pragmatic innovation,scientific management and striving for excellence. Based on high-quality products and thoughtful service, we will protect people's lives and properties together with the majority of dealers and customers.

Galvanized Steel Conduit

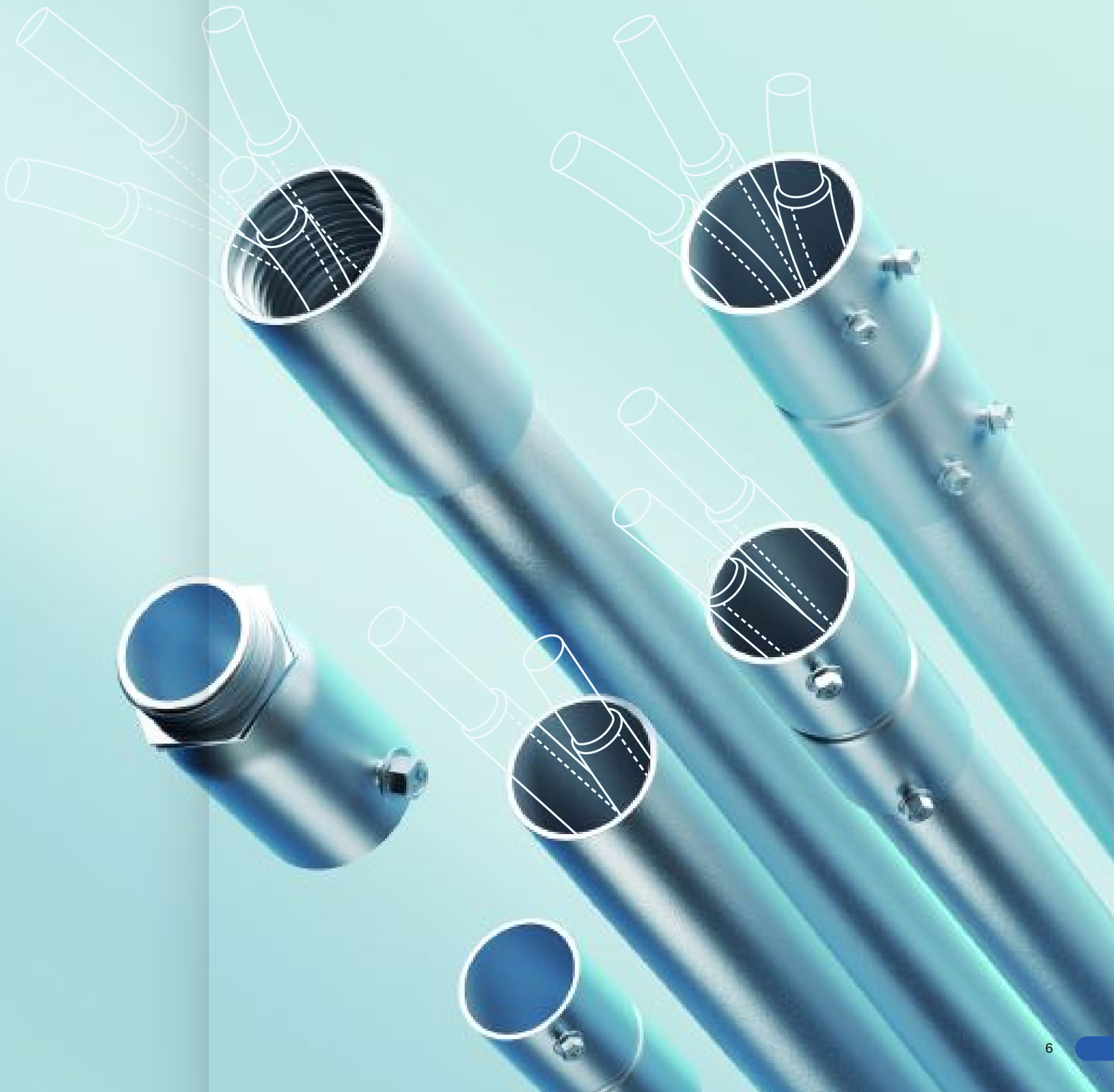
Light-Duty Galvanized Steel Conduit



Medium-Duty Galvanized Steel Conduit



- Smooth Inner Wall
  No Rough Edges
- Easier Cold Bending
  More Convenient Installation
- Multiple Processes
  More Secure Connection
- Smoother Weld Seams
  Better Overall Protection



Light-Duty Galvanized Steel Conduit



KBG Press-Fitted Conduit

It is made of high-quality hot-dip galvanized steel strip, welded and formed by special equipment, and galvanized inside and outside for protection.
It is connected by press-fitted method, usually referred to as KBG steel conduit.
Available in six sizes: Φ16-50mm (Double-sided zinc coating ≥70g/m²±10%)

Product Features

- Low-burr internal weld seam and smooth deburred ends prevent damage to the wire insulation.
- Light weight for easy handling.
- Outstanding manufacturing precision.

Product Functions

- Primarily suitable for the installation of electrical wiring in suspended ceilings and exposed conduit work in dry and ventilated areas of general civil, industrial, commercial, and public buildings.

Technical Data Sheet



Model	ϕ16	ϕ20	ϕ25	ϕ32	ϕ40	ϕ50
Outside Diameter (OD) (mm)	16	20	25	32	40	50
OD Tolerance (mm)	-0.3	-0.3	-0.4	-0.4	-0.5	-0.5
Wall Thickness (mm)	0.9/1.2	0.9/1.0/1.2	1.0/1.2	1.1/1.2	1.2	1.2
Internal Surface Requirements	The internal weld seam should be smooth with a weld bead height of <0.2mm. The zinc coating on inner wall should be uniform and free from defects such as missed plating and zinc slag.					
External Surface Requirements	The zinc coating shall be complete and continuous, free from cracks, scars, blowholes, and missed plating. The external weld seam area shall receive zinc spray treatment.					
Electrical Properties	When subjected to an electrical continuity test, the resistance shall be ≤0.05Ω.					

Medium-Duty Galvanized Steel Conduit



JDG Set-Screw Conduit

Manufactured from premium hot-dip galvanized steel strip through welding and zinc spraying, it is a type of metal conduit for wire protection. It features a threaded design for connections and is easy to cold-bend. When connected with another conduit using set screws, it is usually referred to as a JDG steel conduit. Available in six sizes: Φ 16-50mm (Double-sided zinc coating ≥70g/m²±10%; thickened zinc coating available up to 175g/m²).

Product Features

- Low-burr internal weld seam and smooth deburred ends prevent damage to the wire insulation.
- The conduit is made of the steel that allows for cold bending and threading, and it withstands medium pressure.
- Outstanding manufacturing precision.

Product Functions

- Primarily suitable for the installation of electrical wiring in exposed conduit work, suspended ceilings, and concealed embedded projects within dry and ventilated areas of general civil, industrial, commercial, and public buildings

Technical Data Sheet



Model	ϕ16	ϕ20	ϕ25	ϕ32	ϕ40	ϕ50
Outside Diameter (OD) (mm)	16	20	25	32	40	50
OD Tolerance (mm)	-0.3	-0.3	-0.4	-0.4	-0.5	-0.5
Wall Thickness (mm)	1.5	1.6	1.6	1.6	1.6	1.9
Pressure Test	After being subjected to a pressure of 750N, the conduit shall no exhibit an outside diameter change exceeding 10% of the original, and there should be no cracks on the surface.					
Bending Test	After the conduit undergoes a (90±5° bending test, neither the conduit itself nor the zinc coating should display any cracks, peeling, weld seam cracking, or excessive cross-sectional deformation.					
Internal Surface Requirements	The internal weld seam should be smooth with a weld bead height of <0.2mm. The zinc coating on inner wall should be uniform and free from defects such as missed plating and obvious zinc slag.					

Accessories



Heavy-Duty Set-Screw Coupling

The heavy-duty set-screw coupling features a bright finish on both internal and external surfaces, with smooth weld seams, good roundness, and burr-free ends. The set-screw design is safer and more reliable. The high galvanized coating provides excellent corrosion and rust resistance.The guaranteed wall thickness offers greater toughness, ensuring a more stable connection with the conduit.

Size	Φ20	Φ25	Φ32	Φ40	Φ50
Wall Thickness (mm)	1.3	1.3	1.3	1.3	1.3
Wall Thickness Tolerance (mm)	±0.2	±0.2	±0.2	±0.2	±0.2



Light-Duty Quick-Thread Coupling

The light-duty quick-thread coupling boasts a bright finish on both internal and external surfaces, and is uniform for a smooth connection. The screw is designed for full-depth engagement with a single turn. This coupling features a high zinc coating for good corrosion and rust resistance.

Size	Φ20	Φ25	Φ32
Wall Thickness (mm)	1.0	1.0	1.0
Wall Thickness Tolerance (mm)	±0.2	±0.2	±0.2



Heavy-Duty Set-Screw Connector

Manufactured from genuine high-zinc steel strip through high-frequency welding, the heavy-duty set-screw connector has a high zinc coating for good corrosion and rust resistance.It utilizes self-tapping screws for a firmer connection that can better withstand external tension without being affected.

Size	Φ20	Φ25	Φ32	Φ40	Φ50
Wall Thickness (mm)	1.3	1.3	1.3	1.3	1.3
Wall Thickness Tolerance (mm)	±0.2	±0.2	±0.2	±0.2	±0.2



Light-Duty Set-Screw Connector

Manufactured from genuine high-zinc steel strip through high-frequency welding, the light-duty set-screw connector has a high zinc coating for good corrosion and rust resistance.It utilizes self-tapping screws for a more secure connection that can better withstand external tension without being affected.

Size	Φ20	Φ25	Φ32
Wall Thickness (mm)	1.0	1.0	1.0
Wall Thickness Tolerance (mm)	±0.2	±0.2	±0.2



90° Elbow

Also known as “sweep bend”, this 90° elbow has a smooth galvanized surface with good elasticity, high strength, and outstanding corrosion resistance. It is used to assist conduit runs at turning points, making wire pulling more convenient and standardized.

Size	Φ20	Φ25	Φ32	Φ40	Φ50
Wall Thickness (mm)	1.0	1.0	1.0	1.0	1.0
Wall Thickness Tolerance (mm)	±0.2	±0.2	±0.2	±0.2	±0.2



Galvanized Distance Saddle

Fix the base screws of the distance saddle to the wall, clamp the same-sized electrical conduit into place, and tighten the screws on both sides to complete the installation.The galvanized distance saddle is used to fix electrical conduits on walls or within suspended ceilings. The screws at both ends are fixed very tightly. The design includes reinforcing ribs for resistance to deformation. The surface is galvanized to provide good oxidation and corrosion resistance.

Size	Φ16	Φ20	Φ25	Φ32
Wall Thickness (mm)	0.5	0.5	0.5	0.5



Drawn Square Electrical Box (86 Series)

The stretching box is made of high-quality steel plate by means of single-piece stretch stamping. It features good pressure-bearing strength, good toughness, outstanding sealing performance, and adjustable lugs at both ends. There are punch holes on all four sides for easy pipe installation.

Size	75*75*50	75*75*60	75*75*70	75*75*80
Height (mm)	50	60	70	80
Thickness (mm)	0.9/1.0	0.9/1.0	0.9/1.0	0.9/1.0



Drawn Square Electrical Box with Reinforcement Ribs (86 Series)

Made of high-quality steel plate, its main features are good comprehensive strength, high toughness, good sealing, and adjustable lugs at both ends. There are knockouts on all four sides for easy conduit installation.

Size	75*75*60	75*75*70	75*75*80
Height (mm)	60	70	80
Thickness (mm)	1.0	1.0	1.0

Accessories



86-Type Metal Box Connector

Formed by stamping high-quality steel plate, the 86-type metal box connector features good strength and easy installation.

Size	62*19*14
Thickness (mm)	1.0



Metal Box Cover Plate

Formed from high-quality steel strip in a one-piece stamping, the metal box cover plate has a high-gloss surface with good corrosion resistance. Used with the junction box, it enables convenient maintenance and replacement.

Size	75*75*0.5	75*75*0.8	86*86*0.7
Thickness (mm)	0.5	0.8	0.7
Thickness Tolerance (mm)	±0.05	±0.05	±0.05



Two-Hole Conduit Strap

The two-hole conduit strap is saddle-shaped, and formed by mold stamping, providing efficient construction and installation. It is mainly used for the installation of small to medium-sized conduits. The conduit is secured or released by tightening or loosening the bolts.

Size	Φ20	Φ25	Φ32	Φ40	Φ50
Thickness (mm)	1.0	1.0	1.0	1.0	1.0
Quantity per Box (pcs)	1800	1020	660	360	180



One-Hole Conduit Strap

The one-hole conduit strap is formed by stamping high-quality steel plate, offering efficient construction and installation. It is mainly used for the installation of small to medium-sized conduits. The conduit is secured or released by tightening or loosening the bolts.

Size	Φ16	Φ20	Φ25	Φ32	Φ40
Thickness (mm)	1.0	1.0	1.0	1.0	1.0
Quantity per Box (pcs)	1800	1800	1380	720	480



J-Hook Strap

The J-hook strap is designed with a more suitable large hook for easy installation and strong stability.

Size	Φ16	Φ20	Φ25	Φ32	Φ40
Thickness (mm)	2.5	2.5	2.5	2.5	2.5
Quantity per Box (pcs)	800	640	600	400	320



Conduit Strap with a Bolt

The conduit strap with bolt is used for bonding jumpers between two conduits or from junction boxes, with a simple structure for easy use.

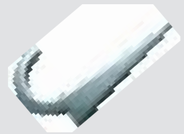
Size	Φ16	Φ20	Φ25	Φ32	Φ40
Thickness (mm)	1.0	1.0	1.0	1.0	1.0
Quantity per Box (pcs)	1800	1320	720	600	480



Conduit Strap with Bolts

Made of high-quality steel with a hot-dip galvanized surface, the conduit strap with bolts features a bright finish and good corrosion resistance.

Size	Φ16	Φ20	Φ25	Φ32	Φ40
Thickness (mm)	2.0	2.0	2.0	2.0	2.0
Quantity per Box (pcs)	1000	1000	800	440	300



Wall-Mounted Conduit Strap

Formed by stamping high-quality steel, the wall-mounted conduit strap offers high strength, durability, and good corrosion resistance.

Size	Φ16	Φ20	Φ25	Φ32	Φ40
Thickness (mm)	2.5	2.5	2.5	2.5	2.5
Quantity per Box (pcs)	1500	1140	1200	880	480

Product Features



Smooth and Burr-Free Inner Wall

Manufactured from premium raw materials through high-temperature forging, each conduit undergoes multiple polishing processes to ensure the inner wall of the conduit remains smooth and burr-free. This effectively protects wires from damage.

Easier Cold Bending at Room Temperature for More Convenient Installation

Advanced manufacturing technology ensures the conduit can be easily cold-bent at room temperature, without cracking, deforming, or breaking.

Multiple Processes for More Secure Connection

Enhanced processing methods ensure tighter and more secure connection between the conduit and key accessories, ensuring conduit continuity.

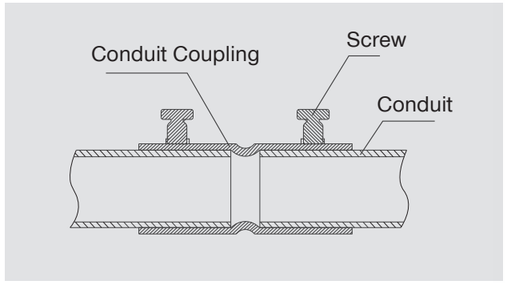
Smoother Weld Seams for Better Overall Protection

Every joint on LESSO metal conduits is carefully polished to be smooth, enabling easier conduit connection and avoiding damage to the wire insulation caused by weld seams.

Corrosion-Resistant Conduit Fittings

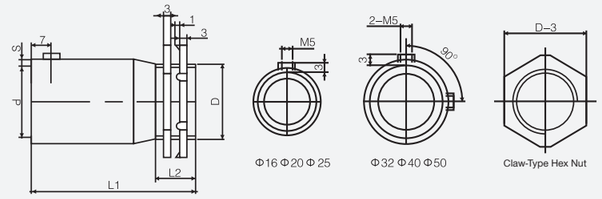
Single-Point Set-Screw Coupling (JDGL)

The single-point set-screw coupling is coated with a non-ferrous metal or corrosion-resistant PE layer on its surface, forming a seal that, slows down or prevents the corrosion of the metal steel base. This ensures that the fitting provides corrosion resistance equal to or greater than that of the conduit, forming a complete and protected wiring system. The end faces are smooth, round, and burr-free to prevent damage to the wire insulation. The tensile strength of the connection is about 1.5KN.



Single-Point Set-Screw Connector (JDGL)

The single-point set-screw connector is designed to connect conduit to a junction box. After a PE or non-ferrous metal coating is applied to its surface, the area of the connector (excluding threaded areas treated with anti-rust oil) feature good corrosion resistance, ensuring the safe connection of the entire conduit system. The end faces are smooth, round, and burr-free to protect wire insulation. The tensile strength of the connection measured by testing is about 1.5KN.

Name	Φ16	Φ20	Φ25	Φ32	Φ40	Φ50
Structure Example of Junction Box Coupling						

Burr-Free Technology

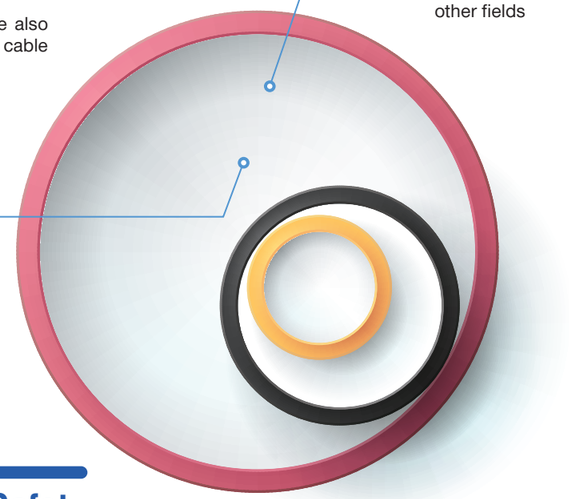
- The interior weld seam of the steel conduit is burr-free and slag-free, with a smooth inner wall;
- The inner and outer edges of the conduit ends are chamfered and flattened;
- The inner walls of the conduit fittings are also smooth, without damaging the wire and cable insulation.

Applications

Widely used for conduit protection in electrical, fire protection, telecommunications, intelligent network cabling systems, and other fields

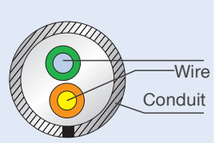
Quality Identification

Quality is assessed based on the smoothness of the inner and outer walls of the conduit, the height of the weld seam burrs, the zinc content, the uniformity of the galvanized coating, the treatment of the burrs, the straightness and roundness of the conduit body, the wall thickness and length of the conduit, and the cold-bending state.

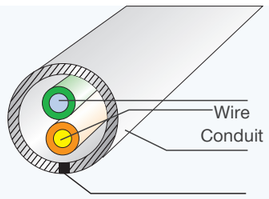


Invisible Burrs, Visible Safety

LESSO Conduit

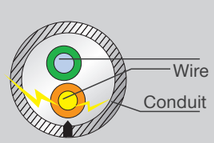


LESSO conduits are manufactured using ultra-low seam technology.

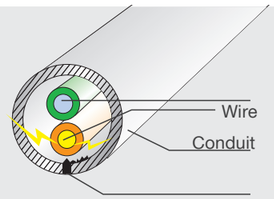


LESSO conduits are manufactured using ultra-low seam technology.

Ordinary Conduit



Ordinary conduits cause serious damage to the insulation.



Sharp burrs damage the insulation.

Production & Testing Equipment



Production Equipment



Welding Workshop 1



Welding Workshop 2



Galvanizing Workshop



Slitting Workshop



Production Workshop 1



Production Workshop 2



Hardware Stamping Workshop 1



Accessory Production Workshop



Metal Mold Workshop

Testing Equipment



722 Visible Spectrophotometer



Three Element Analyzer



Thickness Gauge



Electronic Analytical Balance



WA-ADD Microcomputer-controlled
Electro-hydraulic Universal Testing Machine



Salt Spray Test Chamber



01/Chemical Analysis
Test of Raw Materials



02/Zwick (Germany) Universal
Material Testing Machine



03/ATLAS (USA)
Aging Testing Machine



04/HAAKE
(Germany) Rheometer



05/PE (USA) Differential
Scanning Calorimeter

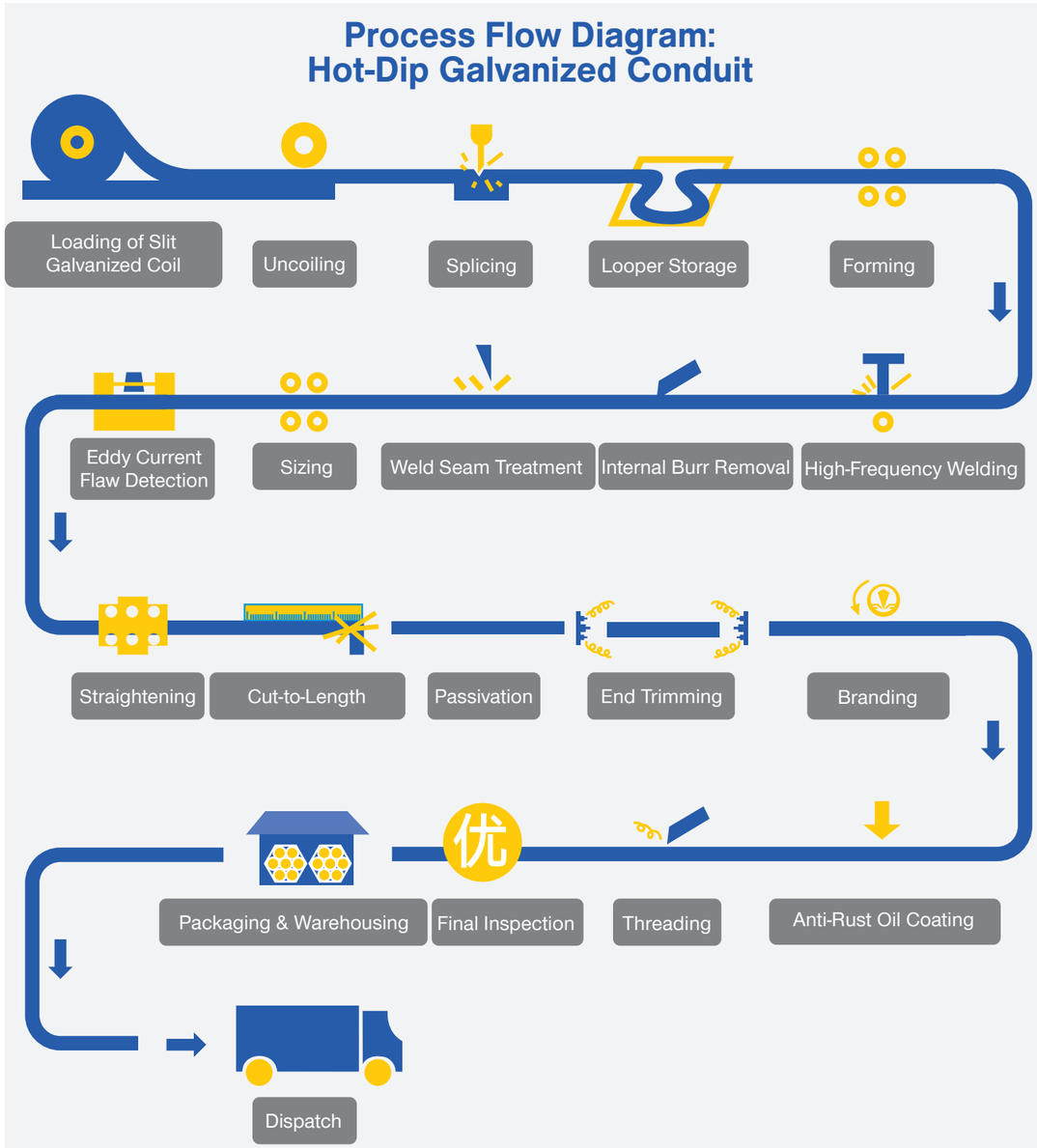


06/Shimadzu (Japan)
AA-6800 Atomic Absorption
Spectrophotometer



07/Laboratory

Process Flow



Cooperative Partners

恒大地产集团 EVERGRANDE REAL ESTATE GROUP
保利地产 和谐生活 自然舒适
中海地产
RiseSun 荣盛
绿城集团 GREENTOWN
JINMAO 中国金茂
中骏
中国中铁
中国建筑
R&F 富力地产 R&F PROPERTIES
绿地集团 中国驰名商标
YanGe 阳光城
SHINSUN 祥生 幸福生活运营商
KAISA 佳兆业
Midea 美的置业 智慧生活 美的人生
seazen 新城控股
龙光地产 LOGAN 专筑城市理想
中核集团 CNNC
SHIMAO PROPERTY 世茂房地产
中南置地 美好就现在
AGILE 雅居乐
建业集团
福晟集团 FUSHENG GROUP
时代地产 TIMES PROPERTY
敏捷集團
领地 LEADING 随于筑 悦于心
YINGKE 盈科地产
合景泰富集团 KWG GROUP HOLDINGS
卓越集团
正商地产 ZENSUN 品质生活 到永远

Project Cases

Hong Kong-Zhuhai-Macao Bridge



Shanghai Jinmao Tower



Zhuhai Central Mansion



Shenzhen Tencent Mansion





Haixia Olympic Sports Center in Fuzhou



Shenyang Taoxian International Airport



Shanghai Pudong Shangri-La Hotel

Haixinsha Square of Asian Games



Shenzhen New International Convention and Exhibition Center



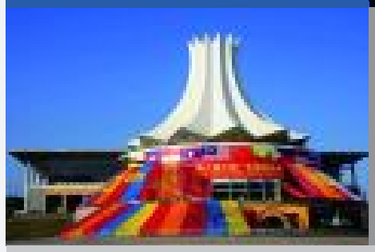


Shanghai Securities Building

Tencent Headquarters Building in Beijing



Shangri-La Hotel Haikou



Nanning ASEAN Expo Center



Honors and Certificates



