Global Leading Manufacturer of Cable Ties & Wiring Accessories

FASTENING SYSTEM
CABLE PROTECTION
WIRE TERMINATION
SECURITY SEALS
OEM/ODM SERVICE

HUA WEI INDUSTRIAL CO., LTD.

Taiwan . China · Thailand

ABOUT HUA WEI

Hua Wei Industrial Co., Ltd. is a leading manufacturer of wire and cable management products in the world. Since 1976, Hua Wei has delivered excellence by consistently providing customers with extraordinary quality, first-class customer service, competitive pricing, and timely delivery. With rich experience and expertise, Hua Wei's global reach and presence is unmatched in the industry.

Headquartered in Taichung Taiwan, Hua Wei has expanded its manufacturing operations overseas in China and Thailand that are vertically integrated in design, manufacturing, processing, assembly, and packaging, thus expediting its response to changes in customer needs and market requirements. Moreover, all of Hua Wei manufacturing facilities are certified to ISO/TS16949, ISO9001, and ISO14001, complying with top-level quality systems and minimizing environmental impacts.

Headquarters | Taiwan

Hua Wei offers exceptional service combined with a large selection of products for a variety of applications in electrical, electronics, telecommunications, automotive, shipbuilding, rail, energy, construction, and retailing industries. In addition, to meet industry needs and market requirements, Hua Wei's products have gained UL, CE, CSA, ABS, DNV GL, BV and CQC accreditations and are all compliant with RoHS and REACH regulations.

Factory | Thailand

Building its competitive advantage upon the core goals of innovation, continuous improvement and complete customer satisfaction, Hua Wei always spares no effort in advanced research and development to maintain its leading position and continually invests in its manufacturing operations to ensure customers receive the highest quality products and services.

Factory | China

MILESTONES

1976 | Hua Wei Industrial Co., Ltd. founded in Taiwan

1977 | Commenced manufacturing cable ties, primarily supplying the electrical component market in Taiwan

1981 | Purchased more land for an additional factory and machinery due to rapid expansion

1985 | Expanded into overseas markets

1995 | Taiwan headquarters obtained ISO 9002 accreditation to meet the market demands for high quality products
| Relocated manufacturing facilities to Shanghai, China, while kept marketing staff remained in Taiwan

2002 | Expanded market to the automotive industry

2006 | Annual cable tie production reached 10 billion units, establishing Hua Wei as the largest cable tie manufacturer in Asia
| Second factory set up in Shanghai to cope with ever-growing demand

2007 | New facility opened in Dong Guan to expand production line and satisfy the growing demand of the large southern China market

2008 | Established new factory in Thailand and commenced manufacturing cable ties
| Obtained ISO14001 accreditation to meet the environmental standards
| Acquired ISO/TS16949 accreditation to comply with quality management requirements for automotive industry

2009 | Devoted to development of green materials and products for green energy industry application
| Employed Computer-Aided Engineering(CAE) to accelerate the new product development

2010 | Expanded the capacity of Thailand factory to supply the global market

2013 | Thailand factory passed the compliance audit of C-TPAT (Customs-Trade Partnership Against Terrorism) led by U.S. Customs and Border Protection (CBP)

2017 | Thailand factory passed the audit of BSCI (Business Social Compliance Initiative)
| Established the research and technology development center in Taiwan headquarters, centralizing and accelerating industry innovation and value creation
| Built the 2nd factory in Thailand, expanding the production scale and strengthening the international competitiveness

RESEARCH AND DEVELOPMENT

Hua Wei employ Computer-Aid Engineering Analysis in RD process to prevent development failure of product in early period and to raise the efficiency and success rate of new product design and development. Hua Wei also continue improving the function of existing products. For instance, we have improved the loop tensile strength of ball lock stainless steel ties which has exceed tens of percentage compared to the same product from European and USA brands. Another example is we have improved the design of producing process which has increased the productivity and yield rate. Hua Wei has acquired patents above both.

ECO-FRIENDLY

Hua Wei has gained ISO14001 Environment quality management to design, manage, train, audit our environmental effect. Besides abiding environmental regulation, reinforcing environment friendly attempt, and continuing to reduce pollutions/wastes, we replace with new pattern machines to save a lot mount of electricity.

The full product range of Hua Wei is compliant to RoHS and REACH regulations. 99.9% of our products are made of recyclable and reusable engineering plastic and metal, and over 85% of them are made by Polyamide 6,6 which is low smoke and halogen free.

CAPABILITY

Hua Wei employed Japan made advanced equipment and technology. With over one hundred fifty of moulding machines ranging from 180~1000 tons, we produce over 10 billion of cable ties each year and which is still growing. Hua Wei is one of the largest manufacturers of cable ties in the world.

Besides, product line of stainless steel ties, wiring ducts, conduits, wiring terminals and so on are fully equipped. Hua Wei supply our customers the total solution of wiring accessories.

OEM CAPABILITY

Advantages of Hua Wei:

- Over 30 years experience on designing and manufacturing of cable ties
- Rich experience and specialty of precise molding with engineering plastic Polyamide 6,6
- Advanced molding facilities, and outstanding R&D teamwork
- Our in-house mold-making capability allows great flexibility in our production and enables us to develop products jointly with our customers.
- Core technology: Precise stamping and precise molding injection
- Global logistic capability

Hua Wei devoted itself to develop new products with customers. The consistent and standard process from molding, producing, to customer labeling, Hua Wei offers total solution of OEM service. Over 30 years of experience in precise stamping and molding, our quality of product and yield rate lead in the industry. We provide not only optimized and competitive products but also better cost-performance value.

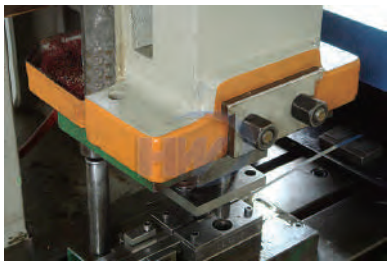
Besides, the mass production and global logistic capability of Hua Wei, make us being the first choice to work with. Our customers are in electrical, electronics, communication, automotive manufacturing, off-shore and ship-building, railroad, energy, and construction industries. We are looking forward to cooperating with you. Welcome to contact us at: service@hwlok.com











PRODUCT INDEX

FASTENING SYSTEM

CABLE TIES

Cable Ties

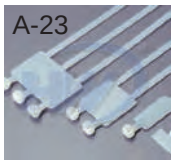
Tefzel® Cable Ties

Round Head Ties

Releasable Ties

Lashing Ties

Extra Heavy Duty Ties



Marker Ties

Push Mount Ties

Double Loop Ties

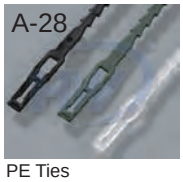
Mountable Head Ties

Button Head Ties

Outside Serrated Ties

Bead Ties

Stop Ties



PE Ties

Air Conditioner Tube Ties

Low Profile Cable Ties

Hook & Loop Cable Ties

STAINLESS STEEL TIES

Ball Lock Type Stainless Steel Ties

Releasable Type Stainless Steel Ties

Wing Seal Type Stainless Steel Ties

Tiger Teeth Type Stainless Steel Ties

Stainless Steel Strapping

Stainless Steel Buckles

Stainless Steel Marker Plates

ENGINEERING FASTENERS

One Piece Fixing Ties with Fir-Tree and Disc

Cable Ties and Fir-Tree Mount Assemblies

Fir-Tree Mount Cable Ties

Push Mount Cable Ties with Disc

Push Mount Cable Ties

Wire Collect Cable Ties

Cable Ties and Edge Clips

Cable Fixing Accessories Tape Clips

Automatic Harness Clips

Automatic Harness Hose Clips

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PRODUCT INDEX

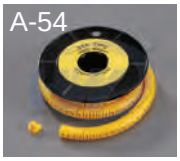
FASTENING SYSTEM

TOOLS

Cable Tie Tools

Banding Tools

CABLE MARKERS



ECM-Type Cable Markers

Flat Cable Markers

OM-Type Cable Markers

FASTENERS

Self Adhesive Cable Tie Mounts

Self Adhesive Wire Saddles

Self Adhesive Wire Clamps

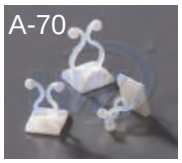
Saddle Tie Mounts

Knock-In Low Profile Mounts

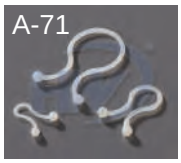
Screw Applied Low Profile Mounts

Cable Clamps

Mounting Bases



Self Adhesive Twist Locks



Twist Locks

Twist Lock with Standoff

Wire Push In Clips

Wire Saddles

Cable Clip

Contract Finish Cable Clips

Flat Cable Clips

Dual Nails Flat Cable Clips

Dual Nails Cable Clips

Wall Plugs

Dual Locking PCB Supports

Dual Locking PCB Supports

Rest Mount PCB Supports

PCB Supports

Reserve Locking PCB Supports

Reserve Locking PCB Supports

Self Adhesive PCB Supports

Bolt Head PCB Supports

Mini Card Spacer Supports

Circuit Board Bolts

Plastic Rivets

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Cord Grips

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Flat Head Phillips Slotted Screws

COMBO PACKS

Hex Head Screws

Hex Nuts

Combo Packs

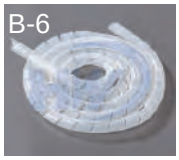
PRODUCT INDEX

CABLE PROTECTION

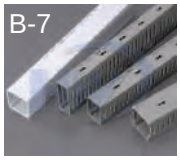
WIRING DUCTS

Button Tubes

Hook & Loop Tubes



Wrapping Bands



Slotted/ Solid Wall Wiring Ducts

Round Type Wiring Ducts

Telephone wiring Ducts

One Piece Raceway

Raceway Fittings

BUSHINGS

Strain Relief Bushings

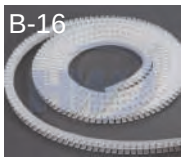
Open Bushings

Washing Machine Cord Bushings

Cable Clamps

Hole Plugs

Bushings



Extruded Grommeting

CONDUITS AND FITTINGS

PA Flexible Conduits

PE Flexible Conduits

PP Flexible Conduits

Five-Piece Conduit Adaptors

Angle Type Conduit Adaptors

Quick Disconnect Conduit Adaptors

Conduit Mounting Brackets

Cable Glands

TOOLS

Multi-Cutter

Wiring Duct Cutter

WIRE TERMINATION

WIRE CONNECTORS

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Winged Grounding Wire Connectors

E Series Wire Connectors

E Series High Temperature Wire Connectors

Waterproof Wire Connectors

C Series Close-End Crimp Connectors

PRODUCT INDEX

WIRE TERMINATION

CORD END TERMINALS

Un-Insulated Cord-End Terminals

Cord-End Terminals

Twin Cord-End Terminals

PUSH-IN CONNECTORS

Push-in Connectors

Push-In Lever Connector

TERMINALS

Non-Insulated Ring Terminals

Gold Plated Non Insulated Ring Terminals

Vinyl-Insulated Ring Terminals

Nylon-Insulated Ring Terminals

Insulated Heat Shrinkable Ring Terminals

Non-Insulated DIN 46234 Ring Terminals

Vinyl-insulated DIN 46237 Ring Terminals

Nylon-Insulated DIN 46237 Ring Terminals

Non-Insulated Spade Terminals

Gold Plated Non Insulated Spade Terminals

Vinyl-Insulated Spade Terminals

Nylon-Insulated Spade Terminals

Insulated Heat Shrinkable Spade Terminals

Non-Insulated Blade Terminals

Vinyl-Insulated Blade Terminals

Nylon-Insulated Blade Terminals

Non-Insulated Pin Terminals

Vinyl-Insulated Pin Terminals

Nylon-Insulated Pin Terminals

Vinyl-Insulated Female Disconnectors

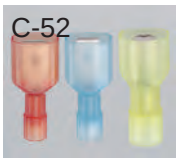
Nylon- Insulated Female Disconnectors

Vinyl-Insulated Male Disconnectors

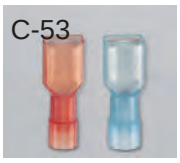
Nylon-Insulamed Male Disconnecmors

Vinyl-Fully Insulated Female Disconnectors

Nylon-Fully Insulated Female Disconnectors



Nylon-Fully Insulated Male Disconnectors



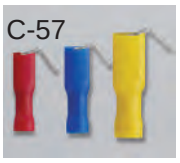
Nylon-Fully(Square) Insulated Female Disconnectors

Nylon-Fully Insulated Female Disconnectors

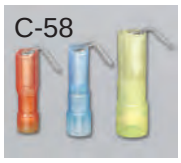
Nylon-Fully Insulated Male Disconnectors

Vinyl-Insulated Piggyback Disconnectors

Nylon-Insulated Piggyback Disconnectors



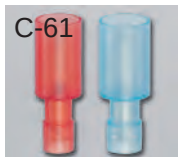
Vinyl-Fully Insulated Piggyback Disconnectors



Nylon-Fully Insulated Piggyback Disconnectors

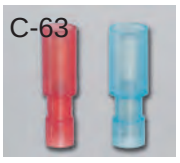
Vinyl-Insulated Bullet Connectors

Nylon-Insulated Bullet Disconnectors



Nylon-Fully Insulated Bullet Disconnectors

Vinyl-Fully Insulated Receptacle Disconnectors

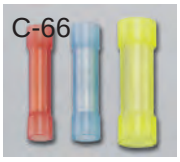


Nylon-Fully Insulated Receptacle Disconnectors

Non-Insulated Butt Connectors

Non-Insulated Parallel Connectors

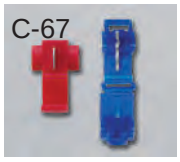
Vinyl-Insulated Butt Splice Connectors



Nylon-Insulated Butt Splice Connectors

Heat Shrinkable - Butt Splice Connectors

Nylon Insulated Flag Female Disconnectors



Quick Splices

Copper/Cable Lugs

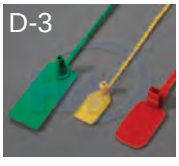
TOOLS

Tools for Cord-End Terminals

Tools for Terminals

Tools for Close-End Crimp Connectors

SECURITY SEALS



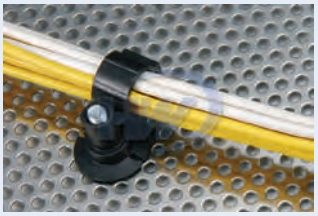
Bag Seals

Multi-Purpose Bag Seals

FASTENING SYSTEM





PROPERTIES OF MATERIAL

Properties of Polyamide 6,6 (PA66)

Polyamides are among the most important thermoplastic synthetic materials. Thermoplastics can be reshaped by heating as often as required without undergoing chemical decomposition or other negative changes. This makes polyamide ideal for processing via injection moulding into high quality products. About 90% of cable ties and fixings from Hua Wei are made from this material. Polyamide is also known as Nylon®.

The inner structure of polyamide displays a partial order of polymer chains, i.e. polyamides are partially crystalline. Due to the tighter packing of the individual molecular chains polyamide only has limited transparency to light. The plastic is therefore described as translucent.

The molecular chains of PA66 are made from two base units:

$$[NH(CH_2)_6NHCO(CH_2)_4CO]_n$$

1st base unit with 6 C atoms	2nd base unit with 6 C atoms

Each base unit contains 6 carbon atoms (C). Hence the name PA66. The polyamide PA66 has many properties which are highly advantageous for Hua Wei cable ties and fixings, such as:

- High strength, rigidity and hardness
- High dimensional stability, even under the effect of heat
- High abrasion resistance

Having a wide range of polyamides and additives allows for an optimum adaptation of the properties of the finished product to suit the respective requirements.

The following PA66 variants are used for Hua Wei products:

- Polyamide 6,6 standard for temperature conditions of up to +85˚C
- Polyamide 6,6 Heat Stabilised for temperature conditions of up to +105˚C
- Polyamide 6,6 UV Stabilised for exterior use
- Polyamide 6,6 Heat Stabilised and UV Stabilised for exterior use up to +105˚C
- Polyamide 6,6 Impact Resistant for high elasticity requirements
- Polyamide 6,6 impact Resistant and Heat Stabilised for high elasticity requirements and temperatures up to +105˚C
- Polyamide 6,6 V0 for high standards of fire protection.

Properties of UV-Stabilised Polyamide

The question constantly arises as to whether a black cable tie is suitable for use outside. This is dependant on the application of the tie, but in general the following statements can be made:

A black cable tie made of polyamide 6,6 standard (PA66) is only colored black with a low proportion of carbon black. This is not sufficient to protect the material from damage caused by UV-radiation in the long term.

Products made from UV-stabilised polyamide 6,6 are produced in accordance with ASTM standard D6779. So they resist UV-radiation in the European area for a considerably longer period than standard PA66.

For outdoor use, therefore, we recommend our range of products made from UV-Stabilised polyamide.

After 500 hours of UV- radiation exposure, polyamide 6,6 standard (PA66) dyed black and polyamide 6,6 UV-stabilised are totally different.

Polyamide 6,6 standard (PA66) dyed black:
The joint has been damaged throughout by UV-radiation.

Polyamide 6,6 UV-stabilised (PA66 UV):
The joint has only been altered at isolated points by the UV-radiation.

Properties of Polyamide 12 (PA12)

Apart from PA66, there are polyamides which are less hygroscopic. These include PA12, which has a molecular chain made of a base unit with 12 carbon atoms:

$$[NH(CH_2)_{11}CO]_n$$

PA12 has the following advantages over PA66:

- Less hygroscopic - saturation at 23˚C and 50% relative humidity is approximately 1%.
- Better impact performance.
- Good weather resistance, even without a special additive.

These three properties make PA12 ideal for use outdoors, in particularly when requirements may include impact resistance.

The water absorption of PA12 is not only less than that of PA66 but also slower. This is the requirement where the mechanical properties need to remain relatively unaffected by changing environmental conditions.

Properties of Tefzel®

ETFE can be best described as a rugged thermoplastic with an outstanding balance of properties. Mechanically, it is tough, has medium stiffness, impact and abrasion resistance.

Summary of key properties:

- No load continuous use temperature of 170˚C.
- Weather resistant
- Inert to most solvents and chemicals
- Hydrolytically stable
- Substantially better resistance to radiation than other plastic materials.

ETFE can perform successfully in applications where other materials are lacking in mechanical toughness, broad thermal capability, ability to meet severe environmental conditions.

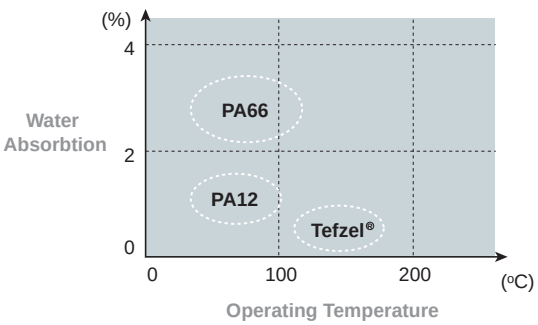
Tefzel® is a registered trademark of E.T. du Pont de Nemours and Company.

Water content in polyamide

Polyamide is a hygroscopic material − this means that it absorbs and releases water. The mechanical properties are significantly affected by the water content - especially flexibility and minimum tensile strength.

In a standard atmosphere of 23˚C and 50% relative humidity, the degree of water saturation of polyamide is around 2.5%. For optimal processing of cable ties it is therefore important that the polyamide has a water content of approximately 2.5% in a state of equilibrium.

The quality and functionality of the products are thus affected by the water content, therefore the correct storage of our products is crucial. Please read our separate instructions on storage. (page.A-9)



Since humidity is so critical to the quality of the tie, the question arises: What happens if the tie is installed and the water content in the tie alters?

The water content determines the flexibility and strength of a tie. At a water content of approximately 2.5% the tie has the ideal flexibility for installation. When the strap is being threaded through the head of the tie, the pawl must be flexible enough to seesaw over the serration of the strap without breaking. On the other hand, there must also be adequate material rigidity for the serrations of the pawl to engage with the serrations of the strap during the tying process so that a 'positive locking' action is achieved. After achieving the positive locking action the tie is in a static condition. Changes in the mechanical properties of the tie as a function of water content are insignificant during this status.

CHEMICAL RESISTANCES OF VARIOUS PLASTICS

+ = resistant o = partly resistant - = not resistant

Medium	Conc.(%)	Temp(°C)	PA66	PA12	POM	PP	TPU	Tefzel®
Acetaldehyde, liquid	100	23	+		+	o	-	+
Acetone	100	23	+	+	+	+	-	+
Ally chloride	100	23				+	-	
Formic acid	98	23	-	-	+	+	-	+
Aniline	100	23	+	o	o	+	-	+
Aromatic compounds					+	-		+
Benzaldehyde	any	23	+		+	+	-	+
Benzine/benzol mix		23	+	+	+	o	o	+
Benzol	100	23	+	+	+	o	-	+
Bromine		23				-	-	
Chlorine, gaseous	100	23				-	o	
Chlorine, liquefied	100	23				-		
Chlorobenzene	100	23				+		
Chloroform	100	23				o		
Chromic acid	10	20	o		+	+		+
Chromic acid	20	23	-		-	+		+
Chromic acid	50	20	-		-	+		+
CFC						o		
Cyclohexane	100	23	+		+	+	+	+
Cyclohexanone	100	23	+		+	+		+
Decahydronaphthalene	100	23	+		+	o		+
Diethyl ether	100	23	+		+	o		+
Di-isopropyl ether	100	23				o		
Dimethyl formamide	100	23	+		+	+		+
Dioctyl phthalate(DOP)		23	+		+	+	-	+
Ethanoic acid	10	20	+	o	+	+		+
Ethanoic acid	25	20	+		o	+		+
Ethanoic acid	50	20	+		o	+		+
Ethanoic acid	100	23	o		o	+		+
Ethyl acetate	tech. pure	23		+		o		
Freon		23				+		
Heptane	100	23	+	+	+	+		+
Potass. permanganate	<=6	23	-	-	+	+		+
Ketone				+		+	+	+
Methyl ethyl ketone	100	23	+		o	+	-	+
Methyl Isobutyl Ketone(MIBK)	100	23	+		+	+		+
Engine oil		23		+		+		

Medium	Conc.(%)	Temp(°C)	PA66	PA12	POM	PP	TPU	Tefzel®
Nitrobenzene	100	23	+		+	+	-	+
Ordinary petrol		23				+		
Paraffin oil		23	+	+	+	+		+
Perchlorethylene		23	+	+	+	o	-	+
Petroleum		23	+	+	+	+		+
Phenol	approx. 70		-	-	o	+	-	+
Nitric acid	10	23	-	-	-	+	-	+
Nitric acid	50	20	-	-	-	-	-	+
Carbon bisulphide	100	23	+	+	+	-	-	+
Sulphuric acid	10	20	o	o	+	+	+	+
Sulphuric acid	50	20	-		-	+	+	+
Sulphuric acid	96	23	-		-	-	+	+
Silicon oil		23	+	+	+	+	+	+
Salad oil		23				+		
Carbon tetrachloride	100	23	+	o	+	o	-	+
Toluol	100	23	-	+	+	o	-	+
Trichlorethylene	100	23	+	o	+	o	-	+
Water, cold						+		
Water, hot						+		
Hydrogen peroxide	10	20	-		+	+		+
Hydrogen peroxide	30	23	-		+	+	+	+
Xylene	100	23	+	+	+	o	-	+

* These values are only rough guides. They should be regarded as a material specification and are no substitute for a suitability test. Please see our technical datasheets for further details.

** Tefzel® is a registered trademark of E.T. du Pont de Nemours and Company.

INTRODUCTION OF ENVIRONMENTAL REGULATIONS

RoHS as the EU's regulation on restricting substances control

Due to the explosive demand and shortening life cycle of consumer electronic goods, the issues on properly disposing the electronic wastes with hazardous substances become the major challenges for all humankind. Dispose all wastes into landfills and incinerators along can not prevent hazardous substances from contaminating the environment. In response to the threat caused by Electrical wastes, EU had established (Directive on the Waste Electronics and Electrical Equipment, WEEE) and "Electrical and Electronic Equipment Directive restricted hazardous substances (RoHS)" standards.

Effective from July 2006, these two standards restricted or prohibited the applications of six major hazardous substances on all electronic, information and communication devices. Products that can not meet the provisions will be restrict by the import ban.

Since July 2006, all Electronic products sold in the European territory must comply with the provisions of the EU's RoHS directive, other countries, such as the United States, Japan and China also have to follow the development of green-related laws.

RoHS Standard regulates the electric devices that operate in voltages under 1,000V AC or 1,500V DC. The following are how they are further categorized:

- Large household appliances
- Small appliances
- Information technology and telecommunication equipments
- Consumer durable equipment
- Lighting, illumination equiptments
- Electrical and electronic tools
- Toys, leisure and sports equipment
- Medical devices
- Surveillance, control equipment
- Vending machines

Products within the above categories are not permitted to use the following six hazardous substances:

- Cadmium (Cd): concentration less than <100ppm
- Lead (Pb): concentration less than <1000ppm
- Mercury (Hg): concentration less than <1000ppm
- Hexavalent chromium (Cr6 +): concentration less than <1000ppm
- Polybrominated biphenyl (PBB): concentration less than <1000ppm
- Polybrominated biphenyl ethers (PBDE): concentration less than <1000ppm

The last two substances are usually used as flame retardants. Lead are used to bonding chips and boards, but now are replaced by compounds made of tin, silver, and copper.

REACH − A Program designed by EU to keep record of substance registration, evaluation, authorization and restrictions.

REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals), is a standard that set to promote better health for human beings and the environment protection. It focuses on the prevention of chemical pollution.

REACH replaces 40 existing EU chemicals-related directives and regulations. Started from June 1, 2007, REACH had begun to enforce registration, evaluation, authorization, and implementation of safety monitoring on all chemical products trading in and out of Europe market.

REACH involved with wide range of legislation and guidelines. It stated in REACH's regulation, the chemicals in use will not and should not be the cause of releasing harmful substances from the original forms nor finished products.

The product categories fall under REACH's regulations including electrical unions, electronic devices, home appliances, textiles, clothing, shoes, toys, motor vehicles, and pharmaceutical products. More than 30,000 types of chemical substances are under REACH regulation. Of which, about 1,000 types of harmful substances are listed as toxic. Therefore, the products affected by REACH are estimated up to 500 million. According to the schedule, these 30,000 types of chemical substances will go through the process of registration, evaluation, authorization and restriction procedures by June 1, 2018.

Low Smoke, Halogen Free Product Specifications

After The European Union announced the RoHS directive, U.S., Japan, China and other countries have announced similar policies to promote Green process. In addition to the regulatory frameworks issued by these countries, Greenpeace further requested the manufacturers not to apply polyvinyl chloride (PVC) and brominated flame retardants (BFRs) in their electronic products completely. The products that comply with this standard are qualified as the environmentally safe electric products that are both lead-free and halogen-free.

Halogen, refers to fluorine (F), chlorine (Cl), bromine (Br), iodine (I),Astatine (At) and other non-metallic elements in the periodic table of chemistry. Many industrial raw materials and manufacturing process will be applied with halides, such as PVC, hydrochloric acid etc… However, some types of halides are the cause of pollution that damaged the ecology. Substances under the halide category are for example the ozone depletion substances CFC, Some examples of the well known substance under the halide category is the ozone depletion substances CFC, polybrominated biphenyl (PBB), polybrominated diphenyl ethers (PBDE), and the well known dioxin.

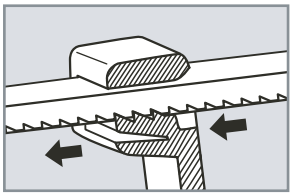
2008 Act of Norway PoHS standards has listed the brominated flame retardant as a banned substances. International organizations, such as IEC, IPC, and JPCA has also defined their specifications on halogen-free materials. Major brand names of electronic and appliances made their commitments on developing halogen-free products progressively in order to comply with the trend of green electronics.

Some specific industries, such as subway, rapid transit, power plants, chemical plants, high-floor buildings, shopping malls, theaters, fire-fighting equipment etc, carry high responsibility on public safety. Therefore, the components used in those industries are usually complied with the most stringent guidelines of low smoke, halogen-free and flame retardant standards.

THE MAIN LOCKING TECHNOLOGIES USED FOR CABLE TIES

Hua Wei offers a wide range of cable ties for use in different applications. By constantly refining our products and satisfying the ever-changing demands of the market, various locking technologies have been developed. Below you will find a brief overview of most common locking technologies and their characteristics.

The Locking Machanism of Cable Ties

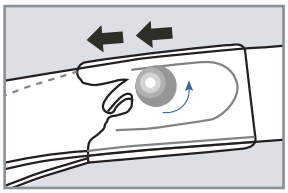


This technology is used in 90% of all polyamide (PA) cable ties applied by Hua Wei. In order to cover a variety of applications, there are different variants of this system, for example: releasable versions and in-line versions.

These are one-piece cable ties, that the pawl is moulded as an integral part of the cable tie, thereby building in inherent strengths.

Locking technology
Positive locking is achieved by engaging the pawl with the strap serrations. This allows the cable tie to perform to the published minimum tensile strength, that is the loading that the cable tie can hold under application.

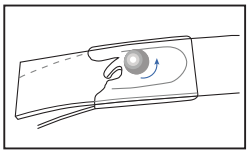
The Locking Machanism of Ball Lock Type Stainless Steel Cable Ties



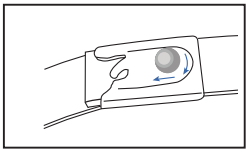
Made of stainless steel grades 304 or 316, the MLG range of cable ties have no serrations on the strap and are threaded parallel through the head, gliding under a metal ball-bearing locking mechanism. By using the GIT-705 application tool the cable tie is tensioned and the strap cut to a flush finish.

Locking technology
The strap is locked into the head by means of the small ball-bearing. The ball locks into the small end of the wedged shaped housing, forming a positive locking with the strap.

This cable tie is not suitable for rigid objects. Retraction of the ball-bearing (see drawing) is required into the small end of the wedged shaped housing to allow for a positive locking of the strap and also to make a flush cut of the end of the strap. Retraction, therefore, cannot take place with the bundling of inflexible materials.

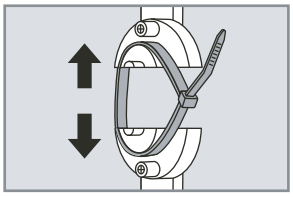


Insert the tail into the buckle. Before the tie is tightened, the internal locking ball still rolls freely.



Once the proper tension is reached, use crimping tool to cut off the tail. The ball then wedges into the buckle, locking it tightly against both the top and bottom of the band.

Determination of Minimum Tensile Strength



The minimum tensile strength is a critical selection criteria for cable ties. It expresses how much loading a cable tie can bear. This minimum tensile strength is determined in accordance with the Military Specification and Standards of the USA. Test conditions being laid down precisely in MIL-S-23190E:

- Conditioning of the test pieces
- Construction of the test apparatus
- Application of the tie on a split test probe
- Test speed

The test procedure to determine minimum tensile strength

- The cable tie is fixed onto a split mandrel test probe with the suitable cable tie application tool.

- The mandrel is opened at a defined speed.
- The loading at which the cable tie fails is determined. This value is stated in Newtons (N) and is recorded through a computer programme reading the tests.

Explanation of minimum tensile strengths

What does a minimum tensile strength of 225 N (50LBS) mean?

To explain what this value means, the with which the tie can be loaded is calculated. The unit of measurement of the mass is stated in kg. To do so, the unit Newton (N) is shown in the following way: [N] = [kg * m/s²]

The formula for calculating the mass is:
Mass = minimum tensile strength/ acceleration due to gravity

The acceleration due to gravity is 9.81 m/s²:
Mass = minimum tensile strength/ [kg * m/s²] /9.81 [m/s²]

At a minimum tensile strength of 225 N(50LBS) the mass is:
Mass = 225 [kg * m/s²] /9.81 [m/s²]

The units m/s² cancel each other out, leaving the unit [kg] for the mass. Thus:
Mass = 225/9.81 kg = 22.2 kg

Therefore, a cable tie with a minimum tensile strength of 225 N (50LBS) can be loaded with 22.2 kg. Conversely, with the required loading capacity the minimum tensile strength can be calculated by a mass:
Min. tensile strength = mass * 9.81[m/s²]

If the tie is to be loaded with, for example, 53 kg this produces:
Minimum tensile strength = [53 kg] * 9.81 [m/s²] = 520 N

In order to withstand a load of 53 kg, the tie must therefore have a minimum tensile strength of 520 N. In this case, select our product with a minimum tensile strength of 535 N (120LBS).

Optimum Storage Conditions for Cable Ties Made of Polyamide (PA)

Hua Wei cable ties, fastenings and fixings are manufactured from high-quality polyamide (PA). This industrial synthetic material is mainly processed using injection moulding, but can also be extruded.

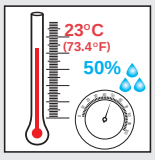
Polyamide is a hygroscopic material. This means that the material absorbs and loses moisture. For optimum handling of cable ties it is important that the material is in a condition of equilibrium with a water content of approximately 2.5%.

The packaging used by Hua Wei ensures that the water content in the material remains constant. Therefore, it is important to store the products in their original packaging to preserve the quality of the ties.

Always store ties in the sealed plastic bag made of polyethylene. Once opened you should use the ties as quick as possible.

Store the product away from direct sources of heat. Avoid contact with heat: for example, do not place on the radiators.

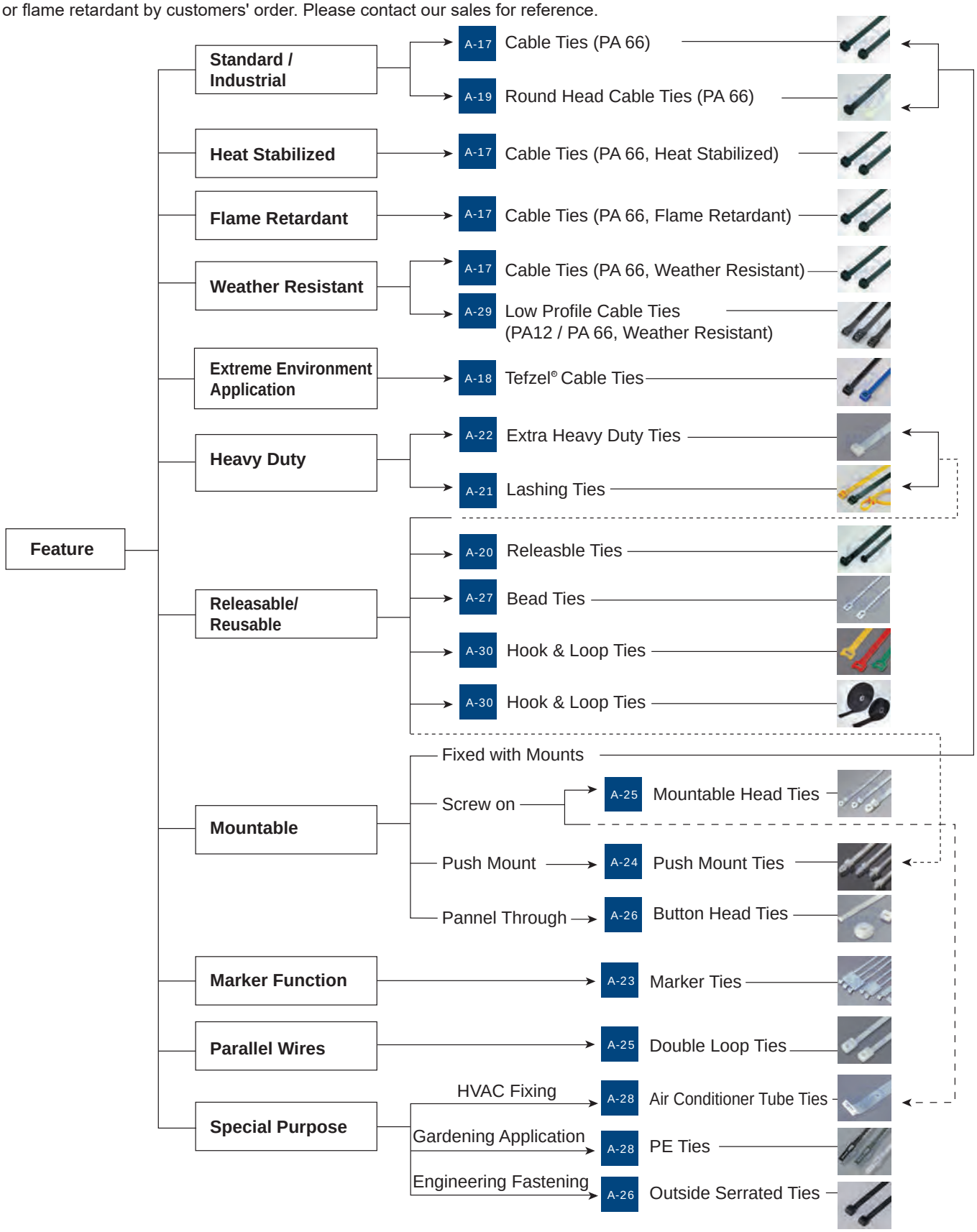
Do not store the product in sunlight; for example, on the windowsill.



The ideal storage conditions are those of the central European standard climate: 23°C(73.4°F), 50% relative humidity.

MATERIAL & APPLICATION TABLE

Hua Wei's cable ties made by Polyamide 6,6 coulld be heat stabilized, weather resistant or flame retardant by customers' order. Please contact our sales for reference.



Hua Wei provides a full line of high quality cable ties in a wide range of sizes, materials, colors and styles for fastening, bundling, securing and identifying in a variety of application.

All Hua Wei's cable ties are engineered and manufactured to meet or exceed industry standards to guarentee maximum reliability. Hua Wei also provides a full range of cable tie installation tools to ensure safe and speed operations.

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Product Name	Cable Ties				Tefzel® Cable Ties
Type	GT				GT-TF
Page	A-17				A-18
Material	Polyamide 6,6	Polyamide 6,6 Heat Stabilized	Polyamide 6,6 Flame Retardant	Polyamide 6,6 Weather Resistant	Tefzel®
Operating Temperature					
Max.	85ºC (185ºF)	120ºC (248ºF)	85ºC (185ºF)	85ºC (185ºF)	170ºC (338ºF)
Min.	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−60ºC (−76ºF)
Resistant Properties					
UV light/ozone	△	△	△	◎	◎
Oils and greases	◎	◎	◎	◎	◎
Solvents	○	○	○	○	◎
Petrol	◎	◎	◎	◎	◎
Flammability	UL94V-2	UL94V-2	UL94V-0	UL94V-2	UL94V-0
Possible Applications					
Switch cabinets	★	★	★	★	★
Electronics	★	★	★	★	★
Aerospace industries	★	★	★	★	★
Turbines and engines		★			★
Telecommunications	★	★	★	★	★
Ship-building/Marine	★	★	★	★	★
Military industry	★	★	★	★	★
Harnessmakers	★	★	★	★	★
Public buildings	★	★	★	★	★
Automotives industries	★	★	★	★	★
Sample Applications					
Bundling of cables and wires	★	★	★	★	★
Bundling of hoses	★	★	★	★	★
Welded or threaded studs					
Drilled hole with thread					
Edge fastening on steel plated					
Blind holes in sheet metal					
Fixing with self adhesive base	★	★	★	★	★
Bundling of optical cables	☆	☆	☆	☆	★
Fastening optical cables	☆	☆	☆	☆	★
For restricted space					
Fastening bellows					
Parallel wires					
Post-installation fastening					
Temporary fastening	☆	☆	☆	☆	★
For thin, sensitive insulation					
Underwater use					★
Identification of bundles					

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

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MATERIAL & APPLICATION TABLE

Product Name	Round Head Cable Ties	Releasable Ties	Lashing Ties	Extra Heavy Duty Ties
Type	GTE	GTR, GTRN	GT-LT	GT-EHD
Page	A-19	A-20	A-21	A-22
Material	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6
Operating Temperature				
Max.	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)
Min.	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)
Resistant Properties				
UV light/ozone	△	△	△	△
Oils and greases	◎	◎	◎	◎
Solvents	○	○	○	○
Petrol	◎	◎	◎	◎
Flammability	UL94V-2	UL94V-2	UL94V-2	UL94V-2
Possible Applications				
Switch cabinets	★	★	★	★
Electronics	★	★	★	★
Aerospace industries	★	★	★	★
Turbines and engines				
Telecommunications	★	★	★	★
Ship-building/Marine	★	★	★	★
Military industry	★	★	★	★
Harnessmakers	★	★	★	★
Public buildings	★	★	★	★
Automotives industries	★	★	★	★
Sample Applications				
Bundling of cables and wires	★	★	★	★
Bundling of hoses	★	★	★	★
Welded or threaded studs				
Drilled hole with thread				
Edge fastening on steel plated				
Blind holes in sheet metal				
Fixing with self adhesive base	★	★		
Bundling of optical cables	☆		☆	☆
Fastening optical cables	☆		☆	☆
For restricted space				
Fastening bellows				
Parallel wires				
Post-installation fastening				★
Temporary fastening	☆	★	★	★
For thin, sensitive insulation				
Underwater use				
Identification of bundles				

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

Product Name	Marker Ties	Push Mount Ties	Double Loop Ties	Mountable Head Ties
Type	GTK	GTP, GTRP	GTB	GTM
Page	A-23	A-24	A-25	A-25
Material	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6
Operating Temperature				
Max.	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)
Min.	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)
Resistant Properties				
UV light/ozone	△	△	△	△
Oils and greases	◎	◎	◎	◎
Solvents	○	○	○	○
Petrol	◎	◎	◎	◎
Flammability	UL94V-2	UL94V-2	UL94V-2	UL94V-2
Possible Applications				
Switch cabinets	★	★	★	★
Electronics	★	★	★	★
Aerospace industries	★	★	★	★
Turbines and engines				
Telecommunications	★		★	
Ship-building/Marine	★	★	★	★
Military industry	★		★	
Harnessmakers	★	★	★	★
Public buildings			★	
Automotives industries		★	★	★
Sample Applications				
Bundling of cables and wires	★	★	★	★
Bundling of hoses		★	★	★
Welded or threaded studs				★
Drilled hole with thread		★		★
Edge fastening on steel plated				
Blind holes in sheet metal				
Fixing with self adhesive base				
Bundling of optical cables	★			
Fastening optical cables	★			
For restricted space	★			
Fastening bellows				
Parallel wires			★	
Post-installation fastening		★		★
Temporary fastening		★		
For thin, sensitive insulation				
Underwater use				
Identification of bundles	★			

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

MATERIAL & APPLICATION TABLE

Product Name	Button Head Ties	Outside Serrated Ties	Bead Ties	Stop Ties
Type	GTA	GTPG	GTB	GT-MA, GT-IA
Page	A-26	A-26	A-27	A-27
Material	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6
Operating Temperature				
Max.	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85º (185ºF)
Min.	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40º (−40ºF)
Resistant Properties				
UV light/ozone	△	△	△	△
Oils and greases	◎	◎	◎	◎
Solvents	○	○	○	○
Petrol	◎	◎	◎	◎
Flammability	UL94V-2	UL94V-2	UL94V-2	UL94V-2
Possible Applications				
Switch cabinets	★	★	★	
Electronics		★	★	
Aerospace industries	★	★		
Turbines and engines		★		
Telecommunications		★	★	
Ship-building/Marine	★	★		
Military industry		★		
Harnessmakers	★	★	★	
Public buildings		★	★	
Automotives industries	★	★	★	
Sample Applications				
Bundling of cables and wires	★	★	★	
Bundling of hoses	★	★	★	
Welded or threaded studs				
Drilled hole with thread	★			
Edge fastening on steel plated				
Blind holes in sheet metal				
Fixing with self adhesive base				
Bundling of optical cables		★		
Fastening optical cables				
For restricted space		★		
Fastening bellows				
Parallel wires				
Post-installation fastening			★	
Temporary fastening			★	★
For thin, sensitive insulation		★		
Underwater use				
Identification of bundles				★

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

Product Name	PE Ties	Air Conditioner Tube Ties	Low Profile Cable Ties		Hook & Loop Cable Ties
Type	AST	BT	GTN / GTNL		VL
Page	A-28	A-28	A-29		A-30
Material	PE	PE	Polyamide 12	Polyamide 6,6 Weather Resistant	Polyamide / PP
Operating Temperature					
Max.	80ºC (176ºF)	80ºC (176ºF)	95ºC (203ºF)	85ºC (185ºF)	75ºC (166ºF)
Min.	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºCº (−40ºF)	−40ºC (−40ºF)	−20ºC (−4ºF)
Resistant Properties					
UV light/ozone	△	△	○	◎	○
Oils and greases	△	△	○	◎	○
Solvents	△	△	△	○	△
Petrol	△	△	○	◎	○
Flammability	--	--	UL94HB	UL94V-2	UL94HB
Possible Applications					
Switch cabinets			★		★
Electronics	★		★		★
Aerospace industries			★		
Turbines and engines			☆		
Telecommunications			★		★
Ship-building/Marine			★		
Military industry			★		
Harnessmakers	★		★		★
Public buildings		★	★		☆
Automotives industries			★		☆
Sample Applications					
Bundling of cables and wires			★		★
Bundling of hoses	★	★	★		★
Welded or threaded studs		☆			
Drilled hole with thread		★			
Edge fastening on steel plated					
Blind holes in sheet metal					
Fixing with self adhesive base					
Bundling of optical cables			★		★
Fastening optical cables					
For restricted space		★	★		★
Fastening bellows					
Parallel wires					
Post-installation fastening					★
Temporary fastening	★				
For thin, sensitive insulation			★		★
Underwater use					
Identification of bundles					☆

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

CABLE TIE ORDERING SPECIFICATION

GT	–	100	M	B	V0
1		2	3	4	5

1 Type

2 Length

3 Width ——— M=Miniature, I=Intermediate, ST=Standard, HD=Heavy Duty, EHD=Extra Heavy Duty

4 Color ——— No Suffix=Natural, B=Black, RD=Red, OR=Orange, YL=Yellow, GN=Green, BL=Blue

5 Material ——— UV=Ultraviolet weather resistant tie for outdoor application, H=Heat stabilized, V0=Flame retardant

Natural Black Red Orange Yellow Green Blue

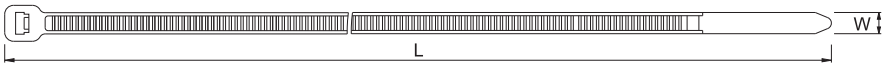
MATERIAL DESCRIPTIONS

Material	Operating Temperature		UL94 Flammability Rating	UV Resistance
	Max.	Min.		
Polyamide 6,6 (PA 66)	85ºC 185ºF	-40ºC -40ºF	UL94V-2	Normal
Polyamide 6,6 (PA 66) Weather Resistant	85ºC 185ºF	-40ºC -40ºF	UL94V-2	Good
Polyamide 6,6 (PA 66) Heat Stabilized	120ºC 248ºF	-40ºC -40ºF	UL94V-2	Normal
Polyamide 6,6 (PA 66) Flame Retardant	85ºC 185ºF	-40ºC -40ºF	UL94V-0	Normal
Polyamide 12 (PA 12)	95ºC 203ºF	-40ºC -40ºF	UL94HB	Excellent
Tefzel® (ETFE)	170ºC 338ºF	-60ºC -76ºF	UL94V-0	Excellent
Polyethylene (PE)	80ºC 176ºF	-40ºC -40ºF	--	Normal

*Tefzel® is a registered trademark of E.T. du Pont de Nemours and Company.

CABLE TIES

- Available in a wide range of materials
- Internal serrations allowing for a positive hold onto cable and pipe bundles
- The design of the head guarantees a high tensile strength while allowing a very low insertion force
- Flame retardant, heat stabilized weather resistant are available
- Material: Polyamide 6,6, UL94V-2
- Color: All colors are available



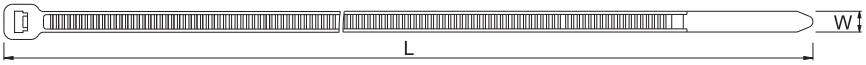
Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength			Recommended Tensioning Tools
				N	kgf	lbf	
GT-80M	80 (3.15)	2.4 (0.09)	15 (0.59)	80	8.2	18	 GIT-701
GT-100M	100 (3.94)	2.5 (0.10)	22 (0.87)	80	8.2	18	
GT-120M	120 (4.72)	2.5 (0.10)	30 (1.18)	80	8.2	18	
GT-140M	140 (5.51)	2.5 (0.10)	33 (1.30)	80	8.2	18	
GT-160M	160 (6.30)	2.5 (0.10)	40 (1.57)	80	8.2	18	
GT-200M	200 (7.87)	2.5 (0.10)	53 (2.09)	80	8.2	18	
GT-140I	140 (5.51)	3.6 (0.14)	33 (1.30)	178	18.2	40	 GIT-702P
GT-200I	200 (7.87)	3.6 (0.14)	53 (2.09)	178	18.2	40	
GT-250I	250 (9.84)	3.6 (0.14)	65 (2.56)	178	18.2	40	
GT-300I	300 (11.81)	3.6 (0.14)	76 (2.99)	178	18.2	40	
GT-370I	370 (14.57)	3.6 (0.14)	102 (4.02)	178	18.2	40	
GT-160ST	160 (6.30)	4.8 (0.19)	38 (1.50)	222	22.6	50	 GIT-702M
GT-190ST	190 (7.48)	4.8 (0.19)	46 (1.81)	222	22.6	50	
GT-200ST	200 (7.87)	4.8 (0.19)	50 (1.97)	222	22.6	50	
GT-250ST	250 (9.84)	4.8 (0.19)	60 (2.36)	222	22.6	50	
GT-300ST	300 (11.81)	4.8 (0.19)	76 (2.99)	222	22.6	50	 GIT-703
GT-370ST	370 (14.57)	4.8 (0.19)	102 (4.02)	222	22.6	50	
GT-430ST	430 (16.93)	4.8 (0.19)	110 (4.33)	222	22.6	50	
GT-530ST	530 (20.87)	4.8 (0.19)	140 (5.51)	222	22.6	50	
GT-200HD	200 (7.87)	7.6 (0.30)	50 (1.97)	534	54.5	120	 GIT-704G
GT-300HD	300 (11.81)	7.6 (0.30)	76 (2.99)	534	54.5	120	
GT-370HD	370 (14.57)	7.6 (0.30)	102 (4.02)	534	54.5	120	
GT-430HD-S	430 (16.93)	7.6 (0.30)	123 (4.84)	534	54.5	120	
GT-540HD-S	533 (20.98)	7.6 (0.30)	140 (5.51)	534	54.5	120	
GT-430HD	430 (16.93)	9.0 (0.35)	120 (4.72)	778	79.3	175	 GIT-709
GT-530HD	530 (20.87)	9.0 (0.35)	140 (5.51)	778	79.3	175	
GT-630HD	609 (23.98)	9.0 (0.35)	187 (7.36)	778	79.3	175	
GT-780HD	778 (30.63)	9.0 (0.35)	228 (8.99)	778	79.3	175	
GT-830HD	815 (32.09)	9.0 (0.35)	239 (9.42)	778	79.3	175	
GT-920HD	916 (36.06)	9.0 (0.35)	263 (10.35)	778	79.3	175	
GT-1220HD	1220 (48.03)	9.0 (0.35)	365 (14.37)	778	79.3	175	
GT-1530HD	1530 (60.24)	9.0 (0.35)	460 (18.11)	778	79.3	175	

* Other sizes available. Subject to minimum order request.

Updated 2024/11/25

TEFZEL® CABLE TIES

- Tefzel® cable ties are specialized cable ties recommeded for applications requiring high resistance to environmental stresses such as chemical attack, gamma radiation, ultraviolet radiation, and extreme temperatures.
- Ideal for use in nuclear power facilities and chemical processing plants
- Standard color of Tefzel® cable tie is blue
- Material: Tefzel® (ETFE)
- Color: Blue, black



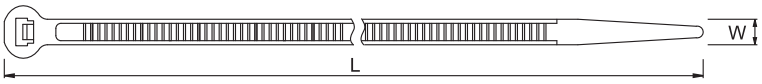
Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength		
				N	kgf	lbf
GT-100M-TF	102 (4.02)	2.4 (0.09)	22 (0.87)	80	8.2	18
GT-150I-TF	150 (5.91)	3.6 (0.14)	35 (1.38)	178	18.2	40
GT-200I-TF	200 (7.87)	3.6 (0.14)	53 (2.09)	178	18.2	40
GT-190ST-TF	190 (7.48)	4.6 (0.18)	46 (1.81)	222	22.6	50
GT-200ST-TF	200 (7.87)	4.6 (0.18)	50 (1.97)	222	22.6	50
GT-300ST-TF	300 (11.81)	4.8 (0.19)	76 (2.99)	222	22.6	50
GT-370ST-TF	370 (14.57)	4.6 (0.18)	102 (4.02)	222	22.6	50
GT-300HD-TF	300 (11.81)	7.3 (0.29)	76 (2.99)	445	45.4	100
GT-370HD-TF	370 (14.57)	7.4 (0.29)	102 (4.02)	445	45.4	100
GT-430HD-TF	435 (17.13)	8.8 (0.35)	125 (4.92)	445	45.4	100

*Tefzel® is a registered trademark of E.T. du Pont de Nemours and Company.

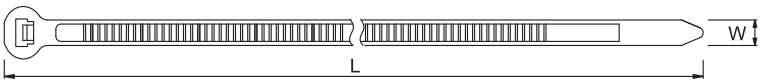
ROUND HEAD TIES

- Available in a wide range of materials
- Internal serrations allowing for a positive hold onto cable and pipe bundles
- The design of the head guarantees a high tensile strength while allowing a very low insertion force
- Material: Polyamide 6,6, UL94V-2
- Color: All colors are available

Type 1



Type 2



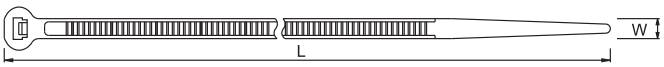
Part No.	Type	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength		
					N	kgf	lbf
GTE-100M	1	100 (3.94)	2.5 (0.10)	22 (0.87)	97	9.9	22
GTE-160M	1	160 (6.30)	2.5 (0.10)	40 (1.57)	97	9.9	22
GTE-200M	1	200 (7.87)	2.5 (0.10)	53 (2.09)	97	9.9	22
GTE-140I	1	140 (5.51)	3.6 (0.14)	33 (1.30)	213	21.7	48
GTE-200I	1	200 (7.87)	3.6 (0.14)	53 (2.09)	213	21.7	48
GTE-300I	1	300 (11.81)	3.6 (0.14)	76 (2.99)	213	21.7	48
GTE-370I	1	370 (14.57)	3.6 (0.14)	102 (4.02)	213	21.7	48
GTE-120ST	1	120 (4.72)	4.8 (0.19)	24 (0.94)	254	25.9	57
GTE-160ST	1	160 (6.30)	4.8 (0.19)	38 (1.50)	254	25.9	57
GTE-190ST	1	188 (7.40)	4.8 (0.19)	46 (1.81)	254	25.9	57
GTE-280ST	1	280 (11.02)	4.8 (0.19)	70 (2.76)	254	25.9	57
GTE-300ST	1	300 (11.81)	4.8 (0.19)	76 (2.99)	254	25.9	57
GTE-370ST	1	370 (14.57)	4.8 (0.19)	102 (4.02)	254	25.9	57
GTE-200HD	2	200 (7.87)	7.6 (0.30)	50 (1.97)	636	64.9	143
GTE-250HD	2	250 (9.84)	7.6 (0.30)	65 (2.56)	636	64.9	143
GTE-300HD	2	300 (11.81)	7.6 (0.30)	76 (2.99)	636	64.9	143
GTE-370HD	2	370 (16.93)	7.6 (0.30)	102 (4.02)	636	64.9	143
GTE-430HD	2	430 (16.93)	7.6 (0.30)	110 (4.33)	636	64.9	143
GTE-450HD	2	450 (17.72)	7.6 (0.30)	132 (5.20)	636	64.9	143
GTE-530HD	2	530 (20.87)	7.6 (0.30)	140 (5.51)	636	64.9	143

RELEASABLE TIES

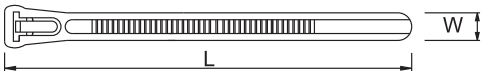
- The extended pawl allows for simple and quick release of the ties
- One-piece construction for consistent performance and reliability
- Permits easy release and re-use where changes are anticipated during development, production or servicing in the field
- Material: Polyamide 6,6, UL94V-2
- Color: All colors are available

GTR

GTER



GTRN

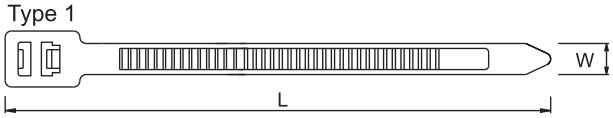


Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength		
				N	kgf	lbf
GTR-140I	140 (5.51)	3.6 (0.14)	33 (1.30)	178	18.2	40
GTR-200ST	200 (7.87)	4.8 (0.19)	50 (1.97)	222	22.6	50
GTR-300ST	300 (11.81)	4.8 (0.19)	76 (2.99)	222	22.6	50
GTR-370ST	370 (14.57)	4.8 (0.19)	102 (4.02)	222	22.6	50
GTR-430ST	430 (16.93)	4.8 (0.19)	110 (4.33)	222	22.6	50
GTR-530ST	530 (20.87)	4.8 (0.19)	140 (5.51)	222	22.6	50
GTR-450HD	450 (17.72)	9.0 (0.35)	132 (5.20)	778	79.3	175
GTR-530HD	530 (20.87)	9.0 (0.35)	140 (5.51)	778	79.3	175
GTR-630HD	624 (24.57)	9.0 (0.35)	178 (7.01)	778	79.3	175
GTR-920HD	920 (36.22)	9.0 (0.35)	263 (10.35)	778	79.3	175
GTRN-100HD	100 (3.94)	7.6 (0.30)	20 (0.79)	222	22.6	50
GTRN-120HD	120 (4.72)	7.6 (0.30)	30 (1.18)	222	22.6	50
GTRN-150HD	150 (5.91)	7.6 (0.30)	35 (1.38)	222	22.6	50
GTRN-200HD	200 (7.87)	7.6 (0.30)	50 (1.97)	222	22.6	50
GTRN-250HD	250 (9.84)	7.6 (0.30)	66 (2.60)	222	22.6	50
GTRN-300HD	300 (11.81)	7.6 (0.30)	80 (3.15)	222	22.6	50
GTRN-370HD	370 (14.57)	7.6 (0.30)	102 (4.02)	222	22.6	50
Round Head						
GTER-370ST	370 (14.57)	4.8 (0.19)	102 (4.02)	254	26.0	57

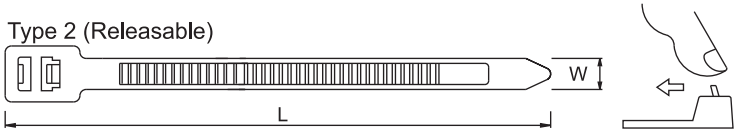
LASHING TIES

- After fastening, insert remaining length of the tie into buckle to enhance tensile strength and avoid tie to slip off
- Typically used for heavy duty applications such as securing conduit or large cable bundles to permanent structures
- Material: Polyamide 6,6, UL94V-2
- Color: All colors are available

Type 1



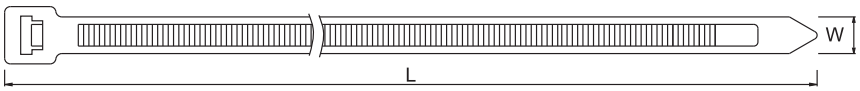
Type 2 (Releasable)



Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength		
				N	kgf	lbf
GT-240LT	235 (9.25)	12.6 (0.50)	50 (1.97)	1112	113.4	250
GT-300LT	300 (11.81)	12.6 (0.50)	76 (2.99)	1112	113.4	250
GT-390LT	390 (15.35)	12.6 (0.50)	103 (4.05)	1112	113.4	250
GT-415LT	412 (16.22)	12.6 (0.50)	110 (4.33)	1112	113.4	250
GT-490LT	485 (19.09)	12.6 (0.50)	135 (5.31)	1112	113.4	250
GT-590LT	585 (23.03)	12.6 (0.50)	152 (5.98)	1112	113.4	250
GT-740LT	735 (28.94)	12.6 (0.50)	204 (8.03)	1112	113.4	250
GT-890LT	885 (34.84)	12.6 (0.50)	248 (9.76)	1112	113.4	250
GT-1040LT	1035 (40.75)	12.6 (0.50)	295 (11.61)	1112	113.4	250
Releasable						
GTR-240LT	235 (9.25)	12.6 (0.50)	50 (1.97)	1112	113.4	250
GTR-300LT	300 (11.81)	12.6 (0.50)	76 (2.99)	1112	113.4	250
GTR-390LT	390 (15.35)	12.6 (0.50)	103 (4.05)	1112	113.4	250
GTR-415LT	412 (16.22)	12.6 (0.50)	110 (4.33)	1112	113.4	250
GTR-490LT	485 (19.09)	12.6 (0.50)	135 (5.31)	1112	113.4	250
GTR-590LT	585 (23.03)	12.6 (0.50)	152 (5.98)	1112	113.4	250
GTR-740LT	735 (28.94)	12.6 (0.50)	204 (8.03)	1112	113.4	250
GTR-890LT	885 (34.84)	12.6 (0.50)	248 (9.76)	1112	113.4	250
GTR-1040LT	1035 (40.75)	12.6 (0.50)	295 (11.61)	1112	113.4	250

EXTRA HEAVY DUTY TIES

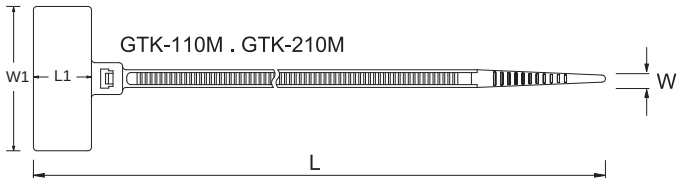
- Extra heavy duty ties for application where higher tensile strength is required
- One-piece construction for consistent performance and reliability
- Lowest threading force of any one-piece cable tie in the industry
- Material: Polyamide 6,6, UL94V-2
- Color: All colors are available



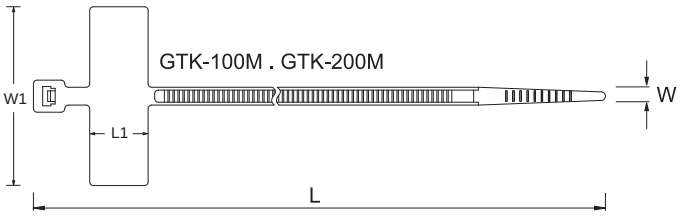
Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength		
				N	kgf	lbf
GT-230EHD	230 (9.06)	12.6 (0.50)	50 (1.97)	1112	113.4	250
GT-290EHD	295 (11.61)	12.6 (0.50)	76 (2.99)	1112	113.4	250
GT-380EHD	380 (14.96)	12.6 (0.50)	106 (4.17)	1112	113.4	250
GT-480EHD	480 (18.90)	12.6 (0.50)	120 (4.72)	1112	113.4	250
GT-580EHD	580 (22.83)	12.6 (0.50)	152 (5.98)	1112	113.4	250
GT-730EHD	730 (28.74)	12.6 (0.50)	204 (8.03)	1112	113.4	250
GT-880EHD	880 (34.65)	12.6 (0.50)	248 (9.76)	1112	113.4	250
GT-1030EHD	1020 (40.16)	12.6 (0.50)	295 (11.61)	1112	113.4	250
Releasable						
GTR-230EHD	230 (9.06)	12.6 (0.50)	50 (1.97)	1112	113.4	250
GTR-290EHD	295 (11.61)	12.6 (0.50)	76 (2.99)	1112	113.4	250
GTR-380EHD	380 (14.96)	12.6 (0.50)	106 (4.17)	1112	113.4	250
GTR-480EHD	480 (18.90)	12.6 (0.50)	120 (4.72)	1112	113.4	250
GTR-580EHD	580 (22.83)	12.6 (0.50)	152 (5.98)	1112	113.4	250
GTR-730EHD	730 (28.74)	12.6 (0.50)	204 (8.03)	1112	113.4	250
GTR-880EHD	880 (34.65)	12.6 (0.50)	248 (9.76)	1112	113.4	250
GTR-1030EHD	1020 (40.16)	12.6 (0.50)	295 (11.61)	1112	113.4	250

MARKER TIES

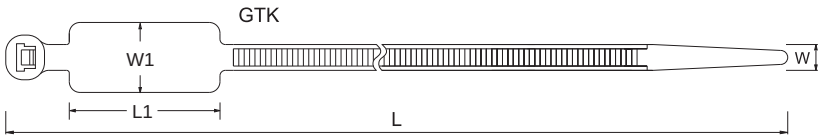
- Tie and identify bundles of cable in one operation
- Large flat area for imprinting or writing the required information
- Hot stamping available, which is subject to minimums and lead times
- Label may be imprinted or written with marker pen
- Material: Polyamide 6,6, UL94V-2
- Color: All colors are available



Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength			Marker Area (L1xW1) mm (inch)
				N	kgf	lbf	
GTK-110M	110 (4.33)	2.5 (0.10)	18 (0.71)	80	8.2	18	9.1x20.4 (0.36x0.80)
GTK-210M	210 (8.27)	2.5 (0.10)	50 (1.97)	80	8.2	18	9.1x20.4 (0.36x0.80)



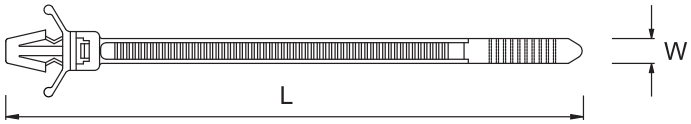
Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength			Marker Area (L1xW1) mm (inch)
				N	kgf	lbf	
GTK-100M	102 (4.02)	2.5 (0.10)	18 (0.71)	80	8.2	18	8.0x25.4 (0.31x1.00)
GTK-200M	200 (7.87)	2.5 (0.10)	50 (1.97)	80	8.2	18	8.0x25.4 (0.31x1.00)

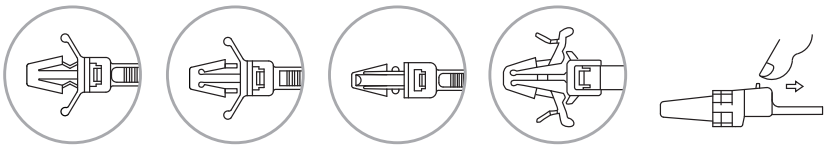


Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength			Marker Area (L1xW1) mm (inch)
				N	kgf	lbf	
GTK-190ST	190 (7.48)	4.8 (0.19)	46 (1.81)	222	22.6	50	28.0x13.0 (1.10x0.51)
GTK-220ST	220 (8.66)	4.8 (0.19)	54 (2.13)	222	22.6	50	28.0x13.0 (1.10x0.51)
GTK-270ST	270 (10.63)	4.8 (0.19)	65 (2.56)	222	22.6	50	28.0x13.0 (1.10x0.51)
GTK-300ST	300 (11.81)	4.8 (0.19)	76 (2.99)	222	22.6	50	28.0x13.0 (1.10x0.51)
GTK-370ST	370 (14.57)	4.8 (0.19)	102 (4.02)	222	22.6	50	28.0x13.0 (1.10x0.51)

PUSH MOUNT TIES

- The wing design of the mount helps stabilize the tie in high vibration applications
- These ties are ideal for fixing bundles along a wide range of surfaces materials such as sheet metal, wood, or cast iron
- One-piece, all plastic ties for quick, simple cable mounting
- Applying by first drilling a hole on panel or board with appropriate hole diameter and board thickness. Insert the mount head to the hole for fixture
- Material: Polyamide 6,6, UL94V-2
- Color: All colors are available



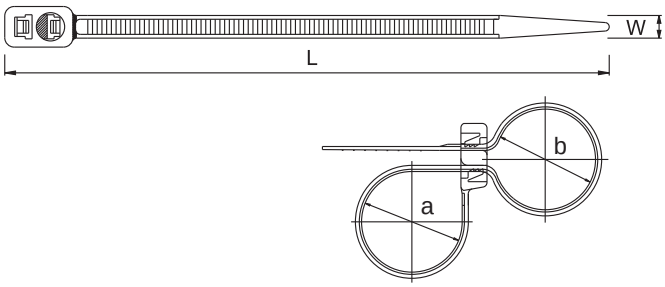


TYPE 1 TYPE 2 TYPE 3 TYPE 4 Releasable Type

Part No.	Type	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength			Mounting Hole ø mm (inch)	Panel Thickness mm (inch)
					N	kgf	lbf		
GTP-110M	1	110 (4.33)	2.5 (0.10)	22 (0.87)	80	8.2	18	4.8 (0.19)	~2.4 (0.09)
GTP-130M	1	130 (5.12)	2.5 (0.10)	28 (1.10)	80	8.2	18	4.8 (0.19)	~2.4 (0.09)
GTP-130I	1	130 (5.12)	3.2 (0.13)	28 (1.10)	133	13.6	30	4.0 (0.16)	~2.0 (0.08)
GTP-110ST	1	110 (4.33)	4.8 (0.19)	22 (0.87)	222	22.6	50	6.4 (0.25)	~3.2 (0.13)
GTP-130ST	1	130 (5.12)	4.8 (0.19)	25 (0.98)	222	22.6	50	6.4 (0.25)	~3.2 (0.13)
GTP-190ST	1	200 (7.87)	4.8 (0.19)	45 (1.77)	222	22.6	50	6.4 (0.25)	~3.2 (0.13)
GTP-110MA	2	110 (4.33)	2.5 (0.10)	22 (0.87)	80	8.2	18	4.8 (0.19)	~2.4 (0.09)
GTP-130MA	2	130 (5.12)	2.5 (0.10)	28 (1.10)	80	8.2	18	4.8 (0.19)	~2.4 (0.09)
GTP-130IA	2	130 (5.12)	3.2 (0.13)	28 (1.10)	133	13.6	30	4.0 (0.16)	~2.0 (0.08)
GTPS-100ST	2	100 (3.94)	4.8 (0.19)	18 (0.71)	222	22.6	50	6.4 (0.25)	~3.2 (0.13)
GTPS-190ST	2	190 (7.48)	4.8 (0.19)	45 (1.77)	222	22.6	50	6.4 (0.25)	~3.2 (0.13)
GTP-150I	3	150 (5.91)	3.6 (0.14)	32 (1.26)	133	13.6	30	5.2 (0.21)	~2.8 (0.11)
GTP-200ST	3	202 (7.91)	4.8 (0.19)	46 (1.81)	222	22.6	50	6.4 (0.25)	~3.6 (0.14)
Releasable									
GTRP-130I	1	130 (5.12)	3.2 (0.13)	28 (1.10)	133	13.6	30	4.0 (0.16)	~2.0 (0.08)
GTRP-110ST	1	110 (4.33)	4.8 (0.19)	17 (0.67)	222	22.6	50	6.4 (0.25)	~3.2 (0.13)
GTRP-130ST	1	130 (5.12)	4.8 (0.19)	25 (0.98)	222	22.6	50	6.4 (0.25)	~3.2 (0.13)
GTRP-190ST	1	200 (7.78)	4.8 (0.19)	45 (1.77)	222	22.6	50	6.4 (0.25)	~3.2 (0.13)
GTRP-170ST	2	170 (6.73)	4.8 (0.19)	38 (1.50)	222	22.6	50	6.4 (0.25)	~3.2 (0.13)
GTRP-200ST	3	200 (7.78)	4.8 (0.19)	46 (1.81)	222	22.6	50	6.4 (0.25)	~3.6 (0.14)
GTRP-100I	4	100 (3.94)	3.5 (0.14)	22 (0.87)	133	13.6	30	4.0 (0.16)	~2.0 (0.08)

DOUBLE LOOP TIES

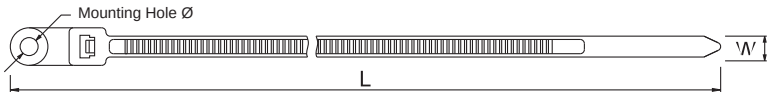
- The tie's second loop may also serve as a positioning device for a single bundle
- Double head ties can be used for installation of a second parallel cable run without the need for additional cable ties
- Material: Polyamide 6,6, UL94V-2
- Color: All colors are available



Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength		
				N	kgf	lbf
GTB-200ST	195 (7.68)	4.8 (0.19)	a:ø47 (1.85) b:ø45 (1.77)	222	22.6	50
GTB-300ST	303 (11.93)	4.8 (0.19)	a:ø72 (2.83) b:ø70 (2.76)	222	22.6	50
GTB-370ST	372 (14.65)	4.8 (0.19)	a:ø100 (3.94) b:ø97 (3.82)	222	22.6	50

MOUNTABLE HEAD TIES

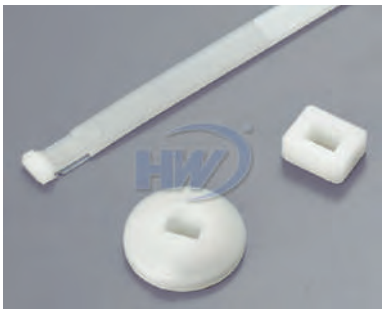
- These screw mount cable ties have a bulit in mounting holes
- Once fastened around the cables the bundle can be simply secured to the panel with a screw or bolt
- Material : Polyamide 6,6, UL94V-2
- Color: All colors are available

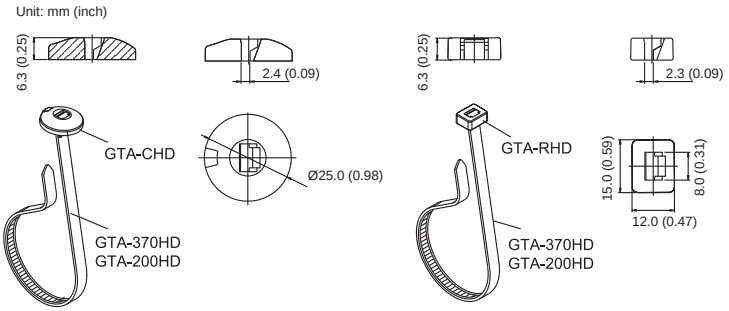


Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength			Mounting Hole ø mm (inch)
				N	kgf	lbf	
GTM-110M	110 (4.33)	2.5 (0.10)	22 (0.87)	80	8.2	18	3.2 (0.13)
GTM-150I	150 (5.91)	3.6 (0.14)	32 (1.26)	178	18.2	40	4.2 (0.17)
GTM-200ST	200 (7.87)	4.8 (0.19)	47 (1.85)	222	22.6	50	5.2 (0.20)
GTM-216ST	216 (8.50)	4.8 (0.19)	53 (2.09)	222	22.6	50	5.2 (0.20)
GTM-300ST	309 (12.17)	4.8 (0.19)	76 (2.99)	222	22.6	50	5.2 (0.20)
GTM-370ST	380 (14.96)	4.8 (0.19)	102 (4.02)	222	22.6	50	5.2 (0.20)
GTM-200HD	215 (8.46)	7.6 (0.30)	47 (1.85)	534	54.5	120	5.7 (0.22)
GTM-300HD	313 (12.32)	7.6 (0.30)	76 (2.99)	534	54.5	120	5.7 (0.22)
GTM-380HD	382 (15.04)	7.6 (0.30)	98 (3.86)	534	54.5	120	5.7 (0.22)

BUTTON HEAD TIES

- For indoor use
- Used for normal bundling and through-panel applications
- Small head height allows more efficient use of space in compact areas
- Exclusive two-piece design offers the lowest threading force in the industry
- Releasable prior to final tensioning for bundle modifications
- Material: Polyamide 6,6, UL94V-2
- Color: All colors are available

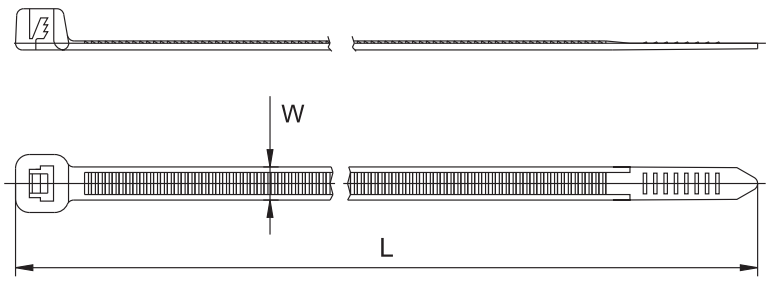




Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength		
				N	kgf	lbf
GTA-200CHD	200 (7.87)	7.6 (0.30)	50 (1.97)	641	65.4	144
GTA-200RHD	200 (7.87)	7.6 (0.30)	50 (1.97)	641	65.4	144
GTA-370CHD	370 (14.57)	7.6 (0.30)	101 (3.98)	641	65.4	144
GTA-370RHD	370 (14.57)	7.6 (0.30)	101 (3.98)	641	65.4	144

OUTSIDE SERRATED TIES

- Outside serrated tie's serrated surface on the outside reducing the damage to the surface of the strapped object
- Material: Polyamide 6,6, UL94V-2
- Color: All colors are available

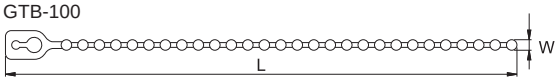


Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength		
				N	kgf	lbf
GTPG-100M	100 (3.94)	2.5 (0.10)	22 (0.87)	80	8.2	18
GTPG-200ST	200 (7.87)	4.8 (0.19)	50 (1.97)	222	22.6	50
GTPG-300ST	300 (11.81)	4.8 (0.19)	76 (2.99)	222	22.6	50
GTPG-370ST	370 (14.57)	4.8 (0.19)	102 (4.02)	222	22.6	50
GTPG-390HD	390 (15.35)	7.6 (0.30)	110 (4.33)	534	54.5	120

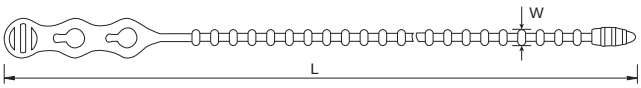
BEAD TIES

- Reusable, easy to install and release
- Material: Polyamide 6,6, UL94V-2
- Color: All colors are available

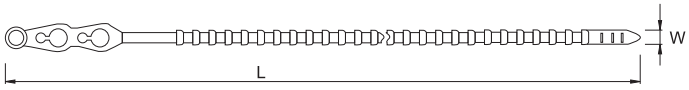
GTB-100



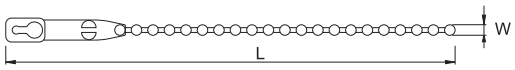
GTB-310

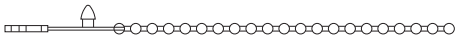


GTB-320



GTMB-90

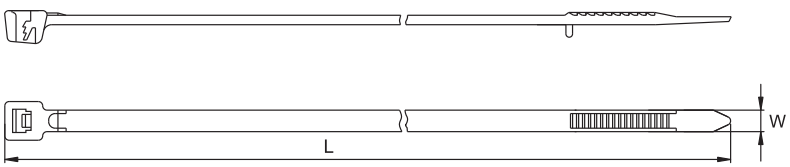




Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength			Mounting Hole ø mm (inch)	Panel Thickness mm (inch)
				N	kgf	lbf		
GTB-100	107 (4.21)	2.3 (0.09)	29 (1.14)	40	4.1	9	--	--
GTB-310	316 (12.44)	4.4 (0.17)	80 (3.15)	311	31.8	70		
GTB-320	322 (12.68)	4.4 (0.17)	90 (3.54)	40	4.1	9	--	--
GTMB-90	93 (3.66)	2.4 (0.09)	25 (0.98)	40	4.1	9	3.0 (0.12)	1.6 (0.06)

STOP TIES

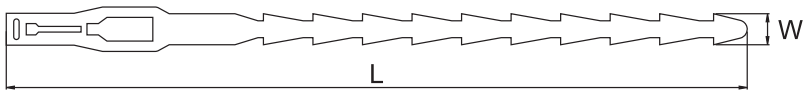
- Tie knuckle will prevent tightening on the object, forming a loop for sorting application
- Material: Polyamide 6,6, UL94V-2
- Color: All colors are available



Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Min.Bundle ø mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength		
					N	kgf	lbf
GT-100MA	102 (4.02)	2.5 (0.10)	17.5 (0.69)	22 (0.87)	80	8.2	18
GT-150IA	150 (5.91)	3.6 (0.14)	22.5 (0.89)	35 (1.38)	178	18.2	40
GT-180IA	180 (7.09)	3.6 (0.14)	24.0 (0.94)	44 (1.73)	178	18.2	40
GT-300IA	300 (11.81)	3.6 (0.14)	84.5 (3.33)	88 (3.46)	178	18.2	40
GT-200HDA	203 (7.99)	7.6 (0.30)	29.3 (1.15)	50 (1.97)	534	54.5	120

PE TIES

- Application in garden, easy to install
- Releasable and reusable
- Material: PE
- Color: All colors are available

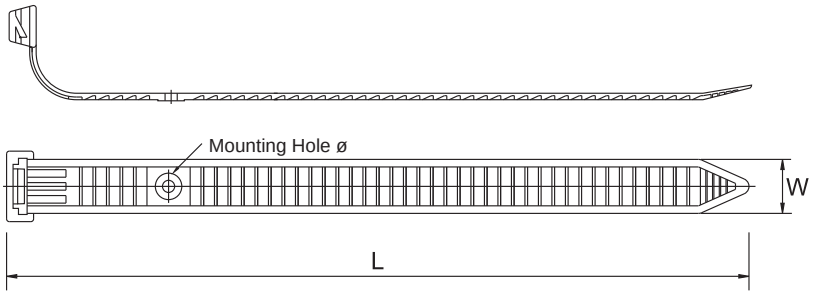


RoHS HF

Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)
AST-115	113 (4.45)	4.5 (0.18)	28 (1.10)
AST-173	167 (6.57)	5.2 (0.20)	45 (1.77)

AIR CONDITIONER TUBE TIES

- Special design for fixing air condition tube or water pipe
- Fix on the wall with screw or nail before fastening the pipe
- Material: PE
- Color: All colors are available

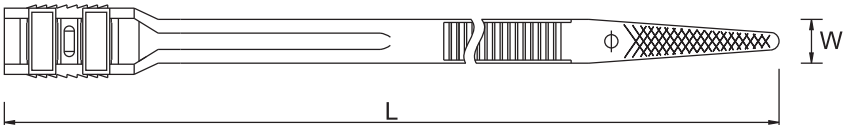


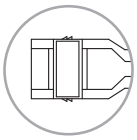
RoHS HF

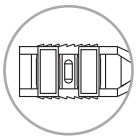
Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength			Mounting Hole ø mm (inch)
				N	kgf	lbf	
BT-250	235 (9.25)	20.0 (0.78)	70 (2.76)	196	20.0	44	4.5 (0.18)
BT-290	275 (10.82)	20.0 (0.78)	80 (3.15)	196	20.0	44	4.5 (0.18)

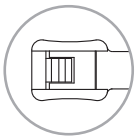
LOW PROFILE CABLE TIES

- Better performance on chemical resistance, mechanical functions under low temperature environment
- Weather resistant cable tie for use in outdoor application
- Material: Polyamide 12, or Polyamide 6,6, weather resistant
- Color: Black




Single Locking Head (GTN)


Double Locking Head (GTN)

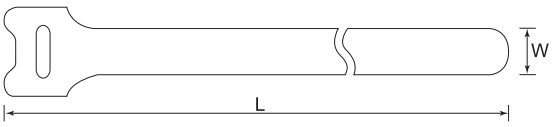

Single Locking Head (GTNL)

Part No.	Material	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength			Locking Device	
					N	kgf	lbf	Single	Double
GTN-180HD	PA12	180 (7.09)	8.6 (0.34)	40 (1.57)	343	35.0	77	•	
GTN-260HD	PA12	260 (10.24)	8.6 (0.34)	53 (2.09)	392	40.0	88		•
GTN-360HD	PA12	355 (13.98)	8.6 (0.34)	83 (3.27)	392	40.0	88		•
GTN-115STUV	PA66 UV	114 (4.47)	6.2 (0.24)	25 (0.98)	294	30.0	66	•	
GTN-180STUV	PA66 UV	175 (6.89)	6.2 (0.24)	40 (1.57)	294	30.0	66	•	
GTN-180HDUV	PA66 UV	180 (7.09)	8.6 (0.34)	40 (1.57)	343	35.0	77	•	
GTN-260HDUV	PA66 UV	260 (10.24)	8.6 (0.34)	53 (2.09)	392	40.0	88		•
GTN-360HDUV	PA66 UV	355 (13.98)	8.6 (0.34)	83 (3.27)	392	40.0	88		•
GTN-510HDUV	PA66 UV	515 (20.28)	8.9 (0.35)	138 (5.43)	534	54.5	120		•
GTN-750HDUV	PA66 UV	755 (29.72)	8.9 (0.35)	210 (8.27)	534	54.5	120		•
GTNL-360HDUV	PA66 UV	360 (14.17)	8.9 (0.35)	100 (3.93)	392	40.0	88	•	
GTNL-500HDUV	PA66 UV	482 (18.98)	8.9 (0.35)	135 (5.31)	392	40.0	88	•	

HOOK & LOOP CABLE TIES

- Low profile, one piece fastening device
- Constructed of polyethylene hook and polyamide loop, laminated back to back, this tie features quick release for repetitive access to cable and wire
- Reusable, adjustable, releasable and easy to install
- Its design provides ease of installation in tight areas such as telecommunications closets and will not get caught on other cables
- Available in a variety of colors and are versatile enough for applications ranging from network installations to bundling power cords
- Material: Polypropylene (female side), Polyamide (male side)
- Color: Black, white, red, yellow, blue, and green

RoHS HF



Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)
VL-125	125 (4.92)	12.0 (0.47)	30 (1.18)
VL-130	130 (5.12)	12.0 (0.47)	32 (1.26)
VL-135	135 (5.31)	12.0 (0.47)	33 (1.30)
VL-155	155 (6.10)	12.0 (0.47)	40 (1.58)
VL-180	185 (7.28)	12.0 (0.47)	49 (1.93)
VL-210	210 (8.27)	12.0 (0.47)	55 (2.17)
VL-310	310 (12.20)	16.0 (0.63)	85 (3.35)

HOOK & LOOP CABLE TIE ROLL STRIPS

- Ideal for bundling & Strapping
- Versatile & adjustable
- Cut to Length as required
- Hook type: Mushroom hook and injection hook are avaiable
- Material: Polypropylene (female side),
  Polypropylene (male side - mushroom hook)
  Polyamide (male side - injection hook)
- Color: Black

RoHS HF

Part No.	Width mm (inch)	Length M (ft.)
VLR-1010	10.0 (0.39)	10 (32.8)
VLR-1025	10.0 (0.39)	25 (82.0)
VLR-1210	12.0 (0.47)	10 (32.8)
VLR-1225	12.0 (0.47)	25 (82.0)
VLR-1910	19.0 (0.75)	10 (32.8)
VLR-1925	19.0 (0.75)	25 (82.0)

INTRODUCTION OF HUA WEI'S STAINLESS STEEL TIES




The wide range of Hua Wei's stainless steel cable ties provide effective solution for the most demanding needs for fastening cables and pipes. With high resistance to various corrosive agents such as acids, alkali, UV, and rust, stainless steel cable ties can be used in all environments, including indoor, outdoor, heavy industrial, underground, and other hostile surroundings.

The characteristics of high strength and non-flammability make stainless steel ties ideal for high-temperature applications. These ties are also good fixing solution for traffic signs and outdoor decorations because of the UV and weather resistance features.

With chemicals and salt spray resistance, stainless steel becomes the best fastening solution for extreme environments such as mining, offshore and shipbuilding industries.

Advantage of Coated Stainless Steel Ties:

- Better protection of corrosion between dissimilar metals.
- Superior insulation between tie and strapped material.
- Better performance in chemical environments.
- Safe operation by decreasing cutting injuries.

BALL-LOCK TYPE

- Unique self-locking mechanism allows quick and reliable application. Low insertion force required.
- Both coated and uncoated products are available; Coated products provide excellent insulation and protection for cables and pipes. Uncoated tie is ideal for being applied for high temperature applications.
- Smooth edge and surface prevents cutting injury.
- Angled and round edge tail enables easier insertion

RELEASABLE TYPE

- Unique buckle design enables easy releasable feature before crimping of the "ears".
- Fully coated surface provides excellent insulation and protection for cables and pipes.
- Large round slot at the tail-end allows application of hook-type fastening toos.

FREE-END TYPE

- Separated tie and buckle for easy assembly.
- Three types of buckle for choice: Wing seal, teeth type and hex-screw.
- Flexible length of tie to satisfy users' different requirements.
- The additional ear can be bent over to increase the tensile strength.
- Coated products provide excellent insulation and protection for cables and pipes. Uncoated tie is ideal for being applied to extreme environment temperature applications.

Updated 2022/12/1

MATERIAL & APPLICATION TABLE

Product Name	Ball Lock Type Stainless Steel Ties	Releasable Type Stainless Steel Ties	Wing Seal Type Stainless Steel Ties	Tiger Teeth Type Stainless Steel Ties
Type	MLG	MLR	MLW	MLT
Page	A-35	A-38	A-39	A-40
Material	SS 304 / 316	SS 304 / 316	SS 304 / 316	SS 304 / 316
Operating Temperature				
Max.	+500ºC (932ºF)	+500ºC (932ºF)	+500ºC (932ºF)	+500ºC (932ºF)
Min.	−80ºC (−112ºF)	−80ºC (−112ºF)	−80ºC (−112ºF)	−80ºC (−112ºF)
Resistant Properties				
UV light/ozone	◎	◎	◎	◎
Oils and greases	◎	◎	◎	◎
Solvents	◎	◎	◎	◎
Petrol	◎	◎	◎	◎
Flammability	◎	◎	◎	◎
Possible Applications				
Switch cabinets				
Electronics	☆	☆	☆	☆
Aerospace industries	☆	★		
Turbines and engines	★	★		
Telecommunications	★	★	★	★
Ship-building/Marine	★	★	★	★
Petrochemical/Offshore	★	★	★	★
Military industry	★	★	★	★
Public buildings	★	★	★	★
Automotives industries		★		
Sample Applications				
Bundling of cables and wires	★	★	★	★
Bundling of hoses	★	★	★	★
Extra heavy duty	★	★	★	★
Fastening heat insulation		★	★	★
Fastening dust insulation		★	★	★
Fastening traffic signs		★	★	★
Fastening signposts		★	★	★
Fasteing festival decorations		★	★	★
Fastening commercial signs		★	★	★
Fastening electrical pole		★	★	★
Fastening electronic pipe		★		
Fastening marker plates	★	★		
Post-installation fastening			★	★
Temporary fastening	★	★	★	★
Underwater use	★	★		
Identification of pipes				

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

Updated 2022/12/1

MATERIAL & APPLICATION TABLE

Product Name	Stainless Steel Strapping	Stainless Steel Buckles	Stainless Steel Marker Plates
Type	MLF-HD	MLW-BK MLT-BK	GMP
Page	A-41	A-41	A-41
Material	SS 304 / 316	SS 304 / 316	SS 304 / 316
Operating Temperature			
Max.	+500ºC (932ºF)	+500ºC (932ºF)	+500ºC (932ºF)
Min.	−80ºC (−112ºF)	−80ºC (−112ºF)	−80ºC (−112ºF)
Resistant Properties			
UV light/ozone	◎	◎	◎
Oils and greases	◎	◎	◎
Solvents	◎	◎	◎
Petrol	◎	◎	◎
Flammability	◎	◎	◎
Possible Applications			
Switch cabinets			☆
Electronics			
Aerospace industries			
Turbines and engines			★
Telecommunications	★	★	★
Ship-building/Marine	★	★	★
Petrochemical/Offshore			★
Military industry	★	★	★
Public buildings	★	★	
Automotives industries			
Sample Applications			
Bundling of cables and wires	★	★	
Bundling of hoses	★	★	
Extra heavy duty	★	★	
Fastening heat insulation	★	★	
Fastening dust insulation	★	★	
Fastening traffic signs	★	★	
Fastening signposts	★	★	
Fasteing festival decorations	★	★	
Fastening commercial signs	★	★	
Fastening electrical pole	★	★	
Fastening electronic pipe	★	★	
Fastening marker plates			
Post-installation fastening	★	★	
Temporary fastening	★	★	
Underwater use			
Identification of pipes			★

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

Updated 2022/12/1

STAINLESS STEEL TIES ORDERING SPECIFICATION

MLG – 130 ST Y
1 2 3 4

- 1 Type → MLG = Ball lock type; MLR = Releasable type; MLW = Wing seal type; MLT = Tiger teeth type
- 2 Length
- 3 Width → ST = Standard; HD = Heavy duty
- 4 Coating Material → No Suffix = non-coating; E = Epoxy; Y = Polyamide 11; V = Polyvinyl Chloride

MLF – 30 HD 95 06 P
1 2 3 3a 3b 4

- 1 Type → MLF = Free-end type
- 2 Length
- 3 Width
- 3a Width
- 3b Thickness
- 4 Package → No Suffix = Paper box; P = Plastic tote

STAINLESS STEEL MATERIAL DESCRIPTIONS

Material	Operation Temp.		Flame Rating	UV Resistance	Salt Spray Resistance	Chemicals Resistance	Antistatic
	Max.	Min.					
Stainless Steel Type: # 304	500°C 932°F	−80°C −112°F	Non flamable	◎	○	◎	◎
Stainless Steel Type: # 316	500°C 932°F	−80°C −112°F	Non flamable	◎	◎	◎	◎

◎ Excellent ○ Good △ Medium

COATING MATERIAL DESCRIPTIONS

Material	Operation Temperature		Abrasion Resistance	Impact Resistance	Adhesion	Alkali Resistance	Acid Resistance	Salt Spray Resistance	Loop Tensile
	Max.	Min.							
Epoxy (ED)	150°C 302°F	−80°C −112°F	○	○	○	○	○	○	○
Polyvinyl Chloride (PVC)	85°C 185°F	−40°C −40°F	◎	◎	○	○	○	◎	△

◎ Excellent ○ Good △ Medium

Updated 2022/12/1

STAINLESS STEEL CABLE TIES - BALL-LOCK UNCOATED TIES

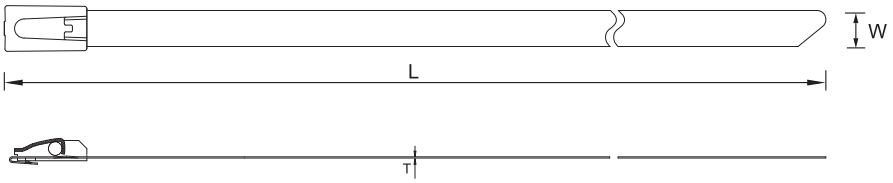
Ball lock type stainless steel cable ties of unique self-locking mechanism allows quick and reliable application with low insertion force required. Both of coated and uncoated products are available; Coated products provide excellent insulation and protection for cables and pipes. Uncoated tie is ideal for being applied for extreme environment temperature applications.

Product Feature:
Uncoated version, for high temperature applications

Applications:
ideal for petrochemical, food industry, industries, power stations, mining, ship-building, offshore and any other aggressive environments.

Technical Information:

- Material: Stainless Steel Grade 304 or 316
  304 grade stainless steel, for standard applications
  316 grade stainless steel, for extra corrosive environments
- Working Temp.: -60ºC to 300ºC
- Description: Metallic band and buckle
- Flammability: Fireproof
- Other Properties: UV-resistant.



Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Thickness (T) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength			Recommended Tensioning ools
					N	kgf	lbf	
MLG-130ST	130 (5.08)	4.6 (0.18)	0.26 (0.01)	33 (1.30)	445	45.4	100	
MLG-152ST	150 (5.91)	4.6 (0.18)	0.26 (0.01)	40 (1.57)	445	45.4	100	
MLG-200ST	200 (7.87)	4.6 (0.18)	0.26 (0.01)	50 (1.97)	445	45.4	100	
MLG-280ST	280 (11.02)	4.6 (0.18)	0.26 (0.01)	70 (2.76)	445	45.4	100	
MLG-300ST	300 (11.81)	4.6 (0.18)	0.26 (0.01)	76 (2.99)	445	45.4	100	
MLG-370ST	370 (14.57)	4.6 (0.18)	0.26 (0.01)	102 (4.02)	445	45.4	100	
MLG-520ST	520 (20.47)	4.6 (0.18)	0.26 (0.01)	156 (6.14)	445	45.4	100	
MLG-680ST	680 (26.77)	4.6 (0.18)	0.26 (0.01)	207 (8.15)	445	45.4	100	
MLG-840ST	840 (33.07)	4.6 (0.18)	0.26 (0.01)	257 (10.12)	445	45.4	100	
MLG-1050ST	1050 (41.34)	4.6 (0.18)	0.26 (0.01)	319 (12.56)	445	45.4	100	
MLG-152HD	150 (5.91)	7.9 (0.31)	0.26 (0.01)	40 (1.57)	1112	113.4	250	
MLG-200HD	200 (7.76)	7.9 (0.31)	0.26 (0.01)	50 (1.97)	1112	113.4	250	
MLG-300HD	300 (11.81)	7.9 (0.31)	0.26 (0.01)	76 (2.99)	1112	113.4	250	
MLG-370HD	370 (14.49)	7.9 (0.31)	0.26 (0.01)	102 (4.02)	1112	113.4	250	
MLG-450HD	450 (17.72)	7.9 (0.31)	0.26 (0.01)	135 (5.31)	1112	113.4	250	
MLG-500HD	500 (19.69)	7.9 (0.31)	0.26 (0.01)	150 (5.91)	1112	113.4	250	
MLG-680HD	680 (26.77)	7.9 (0.31)	0.26 (0.01)	207 (8.15)	1112	113.4	250	
MLG-720HD	720 (28.35)	7.9 (0.31)	0.26 (0.01)	216 (8.50)	1112	113.4	250	
MLG-840HD	840 (33.07)	7.9 (0.31)	0.26 (0.01)	257 (10.12)	1112	113.4	250	
MLG-1020HD	1020 (40.16)	7.9 (0.31)	0.26 (0.01)	312 (12.28)	1112	113.4	250	
MLG-1050HD	1050 (41.34)	7.9 (0.31)	0.26 (0.01)	319 (12.56)	1112	113.4	250	

GIT-705

GIT-2065

Updated 2024/11/25

STAINLESS STEEL CABLE TIES - BALL-LOCK EPOXY COATED TIES

Ball lock type stainless steel cable ties of unique self-locking mechanism allows quick and reliable application with low insertion force required. Both of coated and uncoated products are available; Coated products provide excellent insulation and protection for cables and pipes. Uncoated tie is ideal for being applied for extreme environment temperature applications.

Product Feature:

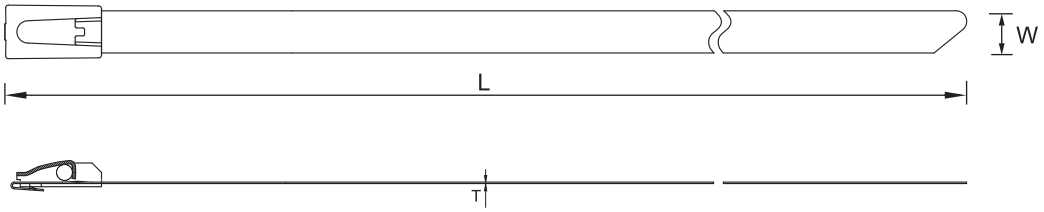
- Coated band with non-toxic, halogen free polyester coating
- Provides additional edge protection
- Prevents the corrosion between dissimilar materials.
- Metallic buckle helps to distinguish from black nylon tie.

Applications:

Ideal for petrochemical, Industries, power stations, mining, ship-building, offshore, and other aggressive environments.

Technical Information:

- Material: Stainless Steel Grade 304 or 316
  304 grade stainless steel, for standard applications
  316 grade stainless steel, for extra corrosive environments
- Working Temp.: -80ºC to 150ºC
- Description: Black Band with Metallic Buckle
- Flammability: Fireproof
- Other Properties: UV-resistant, non toxic



RoHS HF

Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Thickness (T) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength		
					N	kgf	lbf
MLG-130STE	130 (5.08)	4.6 (0.18)	0.39 (0.014)	33 (1.30)	600	72.4	135
MLG-200STE	200 (7.87)	4.6 (0.18)	0.39 (0.014)	50 (1.97)	600	72.4	135
MLG-300STE	300 (11.81)	4.6 (0.18)	0.39 (0.014)	76 (2.99)	600	72.4	135
MLG-370STE	370 (14.57)	4.6 (0.18)	0.39 (0.014)	102 (4.02)	600	72.4	135
MLG-520STE	520 (20.47)	4.6 (0.18)	0.39 (0.014)	156 (6.14)	600	72.4	135
MLG-680STE	680 (26.77)	4.6 (0.18)	0.39 (0.014)	207 (8.15)	600	72.4	135
MLG-840STE	840 (33.07)	4.6 (0.18)	0.39 (0.014)	257 (10.10)	600	72.4	135
MLG-1050STE	1050 (41.34)	4.6 (0.18)	0.39 (0.014)	319 (12.56)	600	72.4	135
MLG-200HDE	200 (7.76)	7.9 (0.31)	0.39 (0.014)	50 (1.97)	800	114	180
MLG-300HDE	300 (11.81)	7.9 (0.31)	0.39 (0.014)	76 (3.00)	800	114	180
MLG-370HDE	370 (14.49)	7.9 (0.31)	0.39 (0.014)	102 (4.02)	800	114	180
MLG-450HDE	450 (17.72)	7.9 (0.31)	0.39 (0.014)	115 (4.50)	800	114	180
MLG-500HDE	500 (19.69)	7.9 (0.31)	0.39 (0.014)	128 (5.00)	800	114	180
MLG-680HDE	680 (26.77)	7.9 (0.31)	0.39 (0.014)	207 (8.15)	800	114	180
MLG-720HDE	720 (28.35)	7.9 (0.31)	0.39 (0.014)	216 (8.50)	800	114	180
MLG-840HDE	840 (33.07)	7.9 (0.31)	0.39 (0.014)	257 (10.10)	800	114	180
MLG-1020HDE	1020 (40.16)	7.9 (0.31)	0.39 (0.014)	312 (12.30)	800	114	180
MLG-1050HDE	1050 (41.34)	7.9 (0.31)	0.39 (0.014)	319 (12.56)	800	114	180

Updated 2022/12/1

STAINLESS STEEL CABLE TIES - BALL-LOCK PVC COATED TIES

Ball lock type stainless steel cable ties of unique self-locking mechanism allows quick and reliable application with low insertion force required. Both of coated and uncoated products are available; Coated products provide excellent insulation and protection for cables and pipes. Uncoated tie is ideal for being applied for extreme environment temperature applications.

Product Feature:

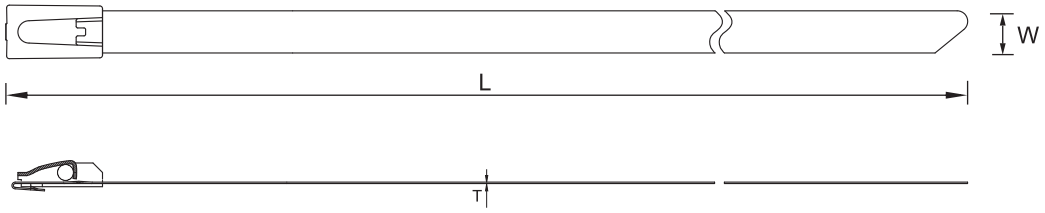
- Metallic buckle helps to distinguish from black nylon tie.
- PVC coating is thicker and softer.
- Prevents corrosion between dissimilar metals.
- Provide additional edge protection.

Applications:

Ideal for petrochemical, industries, power stations, mining, ship-building, offshore, and other aggressive environments.

Technical Information:

- Material: Stainless Steel Grade 304 or 316
  304 grade stainless steel, for standard applications
  316 grade stainless steel, for extra corrosive environments
- Coating: PVC
- Working Temp.: -40ºC to 85ºC
- Description: Black Band with Metallic Buckle
- Flammability: Fireproof
- Other Properties: UV-resistant is available



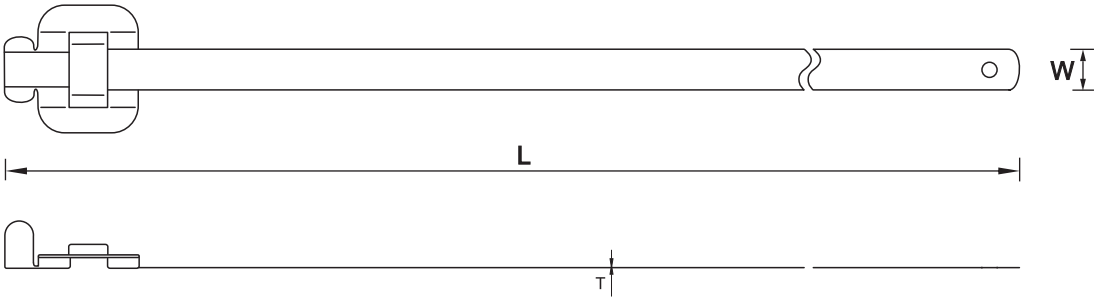
RoHS HF

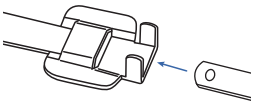
Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Thickness (T) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength		
					N	kgf	lbf
MLG-150STV	150 (5.9)	5.6 (0.22)	1 (0.039)	37 (1.46)	350	35.7	80
MLG-200STV	200 (7.9)	5.6 (0.22)	1 (0.039)	50 (1.97)	350	35.7	80
MLG-250STV	250 (9.8)	5.6 (0.22)	1 (0.039)	63 (2.48)	350	35.7	80
MLG-350STV	350 (13.8)	5.6 (0.22)	1 (0.039)	89 (3.50)	350	35.7	80
MLG-450STV	450 (17.7)	5.6 (0.22)	1 (0.039)	115 (4.53)	350	35.7	80
MLG-600STV	600 (23.6)	5.6 (0.22)	1 (0.039)	154 (6.06)	350	35.7	80
MLG-750STV	750 (29.5)	5.6 (0.22)	1 (0.039)	178 (7.01)	350	35.7	80
MLG-900STV	900 (35.4)	5.6 (0.22)	1 (0.039)	229 (9.02)	350	35.7	80
MLG-200HDV	200 (7.8)	9.0 (0.35)	1 (0.039)	52 (2.05)	445	45.9	100
MLG-250HDV	250 (11.8)	9.0 (0.35)	1 (0.039)	65 (2.56)	445	45.9	100
MLG-300HDV	300 (14.5)	9.0 (0.35)	1 (0.039)	78 (3.07)	445	45.9	100
MLG-400HDV	400 (17.7)	9.0 (0.35)	1 (0.039)	102 (4.02)	445	45.9	100
MLG-500HDV	500 (19.7)	9.0 (0.35)	1 (0.039)	128 (5.04)	445	45.9	100
MLG-650HDV	650 (26.8)	9.0 (0.35)	1 (0.039)	165 (6.50)	445	45.9	100
MLG-800HDV	800 (31.5)	9.0 (0.35)	1 (0.039)	204 (8.03)	445	45.9	100
MLG-1000HDV	1000 (33.1)	9.0 (0.35)	1 (0.039)	254 (10.00)	445	45.9	100

Updated 2022/12/1

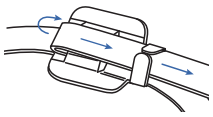
RELEASABLE TYPE STAINLESS STEEL TIES

- This product is releasable and can be double-wrapped for additional tensile strength
- Polyamide coating provides additional edge protection and prevents corrosion between dissimilar metals
- AISI 316 stainless steel for the most corrosive environments
- UV resistant, low smoke, halogen-free material
- Material: Stainless steel type: #304, 316
  Coating: Epoxy and Polyamide are available
- Length: All lengths are available





Insert the tail into the buckle.



Thread the tie through buckle, then tighten the bundle with crimping tool. Fold over the remaining tail of tie and secure by hammering down the ears of buckle.The remaining tie may be cut to finish the process.

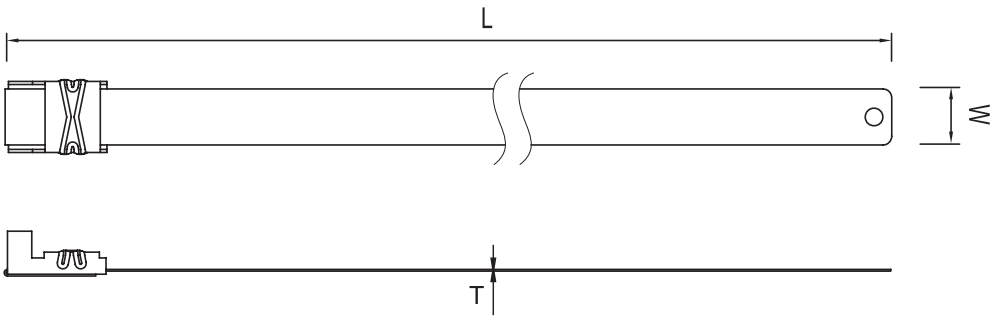
RoHS HF

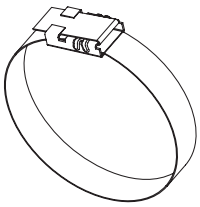
Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Thickness (T) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength		
					N	kgf	lbf
MLR-150ST	150 (5.90)	6.4 (0.25)	0.38 (0.02)	38 (1.50)	334	34.1	75
MLR-230ST	230 (9.05)	6.4 (0.25)	0.38 (0.02)	63 (2.48)	334	34.1	75
MLR-305ST	305 (12.00)	6.4 (0.25)	0.38 (0.02)	86 (3.39)	334	34.1	75
MLR-460ST	460 (18.11)	6.4 (0.25)	0.38 (0.02)	137 (5.39)	334	34.1	75
MLR-610ST	610 (24.01)	6.4 (0.25)	0.38 (0.02)	185 (7.28)	334	34.1	75
MLR-150HD	150 (5.90)	9.6 (0.38)	0.38 (0.02)	38 (1.50)	1112	113.4	250
MLR-230HD	230 (9.05)	9.6 (0.38)	0.38 (0.02)	63 (2.48)	1112	113.4	250
MLR-305HD	305 (12.00)	9.6 (0.38)	0.38 (0.02)	86 (3.39)	1112	113.4	250
MLR-460HD	460 (18.11)	9.6 (0.38)	0.38 (0.02)	137 (5.39)	1112	113.4	250
MLR-610HD	610 (24.01)	9.6 (0.38)	0.38 (0.02)	185 (7.28)	1112	113.4	250

Updated 2022/12/1

WING SEAL TYPE STAINLESS STEEL TIES

- Available with various widths to choose from: 9.5 mm, 12.7 mm, 15.9 mm, 19.0 mm
- Protuberating wing structure design delivers advantages of speed installation and secured fastening
- Low profile tie head design, which is ideal for use in the restricted space
- Available with polyamide or epoxy resin coating options, which provide better protection on the tie body edges and prevent rust generation on metals from direct physical contact
- Adaptable to most of the harsh environment circumstances by delivering superior fastening capability and tensile
- Material: Stainless steel type: #304, 316
  Coating: Epoxy, Polyamide and Polyvinyl Chloride are available
- Length: All lengths are available





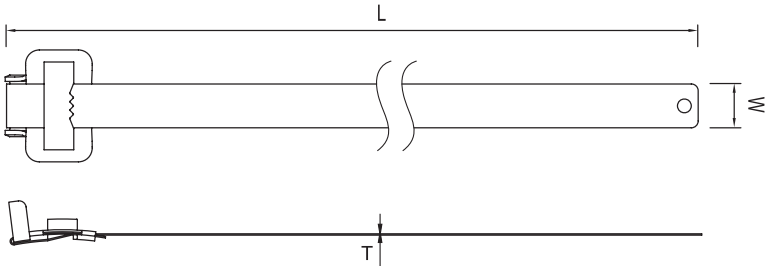
RoHS HF

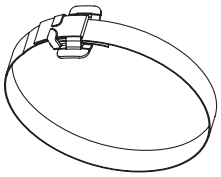
Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Thickness (T) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength		
					N	kgf	lbf
MLW-3003HD	300 (11.81)	9.5 (0.37)	0.38 (0.02)	70 (2.76)	2225	227.0	500
MLW-4003HD	400 (15.75)	9.5 (0.37)	0.38 (0.02)	100 (3.94)	2225	227.0	500
MLW-5003HD	500 (19.69)	9.5 (0.37)	0.38 (0.02)	130 (5.12)	2225	227.0	500
MLW-6003HD	600 (23.62)	9.5 (0.37)	0.38 (0.02)	165 (6.50)	2225	227.0	500
MLW-3004HD	300 (11.81)	12.7 (0.50)	0.38 (0.02)	70 (2.76)	3115	317.6	700
MLW-4004HD	400 (15.75)	12.7 (0.50)	0.38 (0.02)	100 (3.94)	3115	317.6	700
MLW-5004HD	500 (19.69)	12.7 (0.50)	0.38 (0.02)	130 (5.12)	3115	317.6	700
MLW-6004HD	600 (23.62)	12.7 (0.50)	0.38 (0.02)	165 (6.50)	3115	317.6	700
MLW-3005HD	300 (11.81)	15.9 (0.63)	0.38 (0.02)	70 (2.76)	3560	363.0	800
MLW-4005HD	400 (15.75)	15.9 (0.63)	0.38 (0.02)	100 (3.94)	3560	363.0	800
MLW-5005HD	500 (19.69)	15.9 (0.63)	0.38 (0.02)	130 (5.12)	3560	363.0	800
MLW-6005HD	600 (23.62)	15.9 (0.63)	0.38 (0.02)	165 (6.50)	3560	363.0	800
MLW-3006HD	300 (11.81)	19.0 (0.75)	0.38 (0.02)	70 (2.76)	4450	453.8	1000
MLW-4006HD	400 (15.75)	19.0 (0.75)	0.38 (0.02)	100 (3.94)	4450	453.8	1000
MLW-5006HD	500 (19.69)	19.0 (0.75)	0.38 (0.02)	130 (5.12)	4450	453.8	1000
MLW-6006HD	600 (23.62)	19.0 (0.75)	0.38 (0.02)	165 (6.50)	4450	453.8	1000

Updated 2022/12/1

TIGER TEETH TYPE STAINLESS STEEL TIES

- Available with various widths to choose from: 9.5 mm, 12.7 mm, 15.9 mm, 19.0 mm
- Protuberating L structure with serrated anti-locking design delivers advantages of speed installation and superior reliability
- Available with polyamide or epoxy resin coating options, which provide better protection on the tie body edges and prevent rust generation on metals from direct physical contact
- Applicable for use by a wide variety of industries inclusive of mess transportation, public signage, oil rig drilling, mining, chemical, and power generation etc. that require reliable fastening accessories
- Solid stainless steel with advantages of abrasive resistance, acid & alkali resistance, weathering resistance and flame resistance
- Material: Stainless steel type: #304, 316
  Coating: Epoxy, Polyamide and Polyvinyl Chloride are available
- Length: All lengths are available





RoHS HF

Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Thickness (T) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength		
					N	kgf	lbf
MLT-3003HD	300 (11.81)	9.5 (0.37)	0.38 (0.02)	70 (2.76)	2225	227.0	500
MLT-4003HD	400 (15.75)	9.5 (0.37)	0.38 (0.02)	100 (3.94)	2225	227.0	500
MLT-5003HD	500 (19.69)	9.5 (0.37)	0.38 (0.02)	130 (5.12)	2225	227.0	500
MLT-6003HD	600 (23.62)	9.5 (0.37)	0.38 (0.02)	165 (6.50)	2225	227.0	500
MLT-3004HD	300 (11.81)	12.7 (0.50)	0.38 (0.02)	70 (2.76)	3115	317.6	700
MLT-4004HD	400 (15.75)	12.7 (0.50)	0.38 (0.02)	100 (3.94)	3115	317.6	700
MLT-5004HD	500 (19.69)	12.7 (0.50)	0.38 (0.02)	130 (5.12)	3115	317.6	700
MLT-6004HD	600 (23.62)	12.7 (0.50)	0.38 (0.02)	165 (6.50)	3115	317.6	700
MLT-3005HD	300 (11.81)	15.9 (0.63)	0.38 (0.02)	70 (2.76)	3560	363.0	800
MLT-4005HD	400 (15.75)	15.9 (0.63)	0.38 (0.02)	100 (3.94)	3560	363.0	800
MLT-5005HD	500 (19.69)	15.9 (0.63)	0.38 (0.02)	130 (5.12)	3560	363.0	800
MLT-6005HD	600 (23.62)	15.9 (0.63)	0.38 (0.02)	165 (6.50)	3560	363.0	800
MLT-3006HD	300 (11.81)	19.0 (0.75)	0.38 (0.02)	70 (2.76)	4450	453.8	1000
MLT-4006HD	400 (15.75)	19.0 (0.75)	0.38 (0.02)	100 (3.94)	4450	453.8	1000
MLT-5006HD	500 (19.69)	19.0 (0.75)	0.38 (0.02)	130 (5.12)	4450	453.8	1000
MLT-6006HD	600 (23.62)	19.0 (0.75)	0.38 (0.02)	165 (6.50)	4450	453.8	1000

Updated 2022/12/1

STAINLESS STEEL STRAPPING & BUCKLES

- Applied with stainless steel buckles: MLW-BK and MLT-BK
- Tie length or bundle diameter can be adjusted by users
- Fit for hoses of all sizes
- Convenient and durable for mounting traffic signs, commercial signs, holiday decorations, etc.
- Material: Stainless steel type: #304, 316
- Length: 30 M / 100 ft. per roll

Paper Box

Plastic Tote

Part No.		Length M (ft.)	Width mm (inch)	Thickness mm (inch)	Recommended Tensioning Tools
Paper Box	Plastic Tote				
MLF-30HD-9506	MLF-30HD-9506P	30 (100)	9.5 (0.37)	0.58 (0.02)	 GIT-260
MLF-30HD-1207	MLF-30HD-1207P	30 (100)	12.7 (0.50)	0.70 (0.03)	
MLF-30HD-1607	MLF-30HD-1607P	30 (100)	15.9 (0.63)	0.70 (0.03)	
MLF-30HD-1907	MLF-30HD-1907P	30 (100)	19.0 (0.75)	0.70 (0.03)	
MLF-30HD-9504	MLF-30HD-9504P	30 (100)	9.5 (0.37)	0.38 (0.02)	
MLF-30HD-1204	MLF-30HD-1204P	30 (100)	12.7 (0.50)	0.38 (0.02)	
MLF-30HD-1604	MLF-30HD-1604P	30 (100)	15.9 (0.63)	0.38 (0.02)	
MLF-30HD-1904	MLF-30HD-1904P	30 (100)	19.0 (0.75)	0.38 (0.02)	

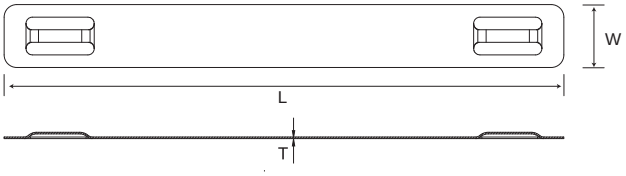
- Fits 9.5 mm, 12.7 mm, 15.9 mm, 19.0 mm strapping
- Easy to be assembled. Ties may be released and reused before fastened
- Material: Stainless steel type: #304, 316

Part No.	Type	Max. Tie Width mm (inch)
MLW-BK-3	Wing Seal	9.5 (0.37)
MLW-BK-4	Wing Seal	12.7 (0.50)
MLW-BK-5	Wing Seal	15.9 (0.63)
MLW-BK-6	Wing Seal	19.0 (0.75)

Part No.	Type	Max. Tie Width mm (inch)
MLT-BK-3	Tiger Teeth	9.5 (0.37)
MLT-BK-4	Tiger Teeth	12.7 (0.50)
MLT-BK-5	Tiger Teeth	15.9 (0.63)
MLT-BK-6	Tiger Teeth	19.0 (0.75)

STAINLESS STEEL MARKER PLATES

- Applicable for use at ducts, pipes, valves, power cables, chemical petroleum devices, oil refining plants, and other harsh environments
- Quality resistance to abrasion, corrosion and UV that enables the tie adaptable to most of the harsh environment circumstances by providing long-lasting indication performance
- Advantages of speed installation and low cost
- Material: Stainless steel type: #304, 316



Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Thickness (T) mm (inch)	Max. 4.77mm (3/16") Characters Per Line	Max. Lines	Max. Tie Width mm (inch)
GMP-8910R	89 (3.50)	10 (0.39)	0.25 (0.01)	23	1	8.0 (0.31)
GMP-8919R	89 (3.50)	19 (0.75)	0.25 (0.01)	23	3	8.0 (0.31)

Updated 2022/12/1

INTRODUCTION OF ENGINEERING FASTENERS



Optimized Quality Leading in The Industry

With over 30 year experience on precise stamping and precise molding injection, Hua Wei has provided industrial standard cable ties and fasteners, and customized variable automotive and engineering fasteners to fulfill the unique requirement of secure and sustainable. Engineering fasteners of Hua Wei apply to high vibration and harsh environment and can fasten wires securely. Applicable all kinds of vehicles, aviation, machniney, etc.

Technologies of precise stamping and molding injection, excellent RD teamwork, and premium quality make Hua Wei the first choices as an industrial OEM service provider and partner.

Design and Development of Fasteners

Many of cable ties and engineering fasteners are specially designed for unique requirement to sustainable for high vibration environment or in the high temperature of engine compartment. Some of the cable ties are convenient to apply without using tools to insert into pre-drilled holes and fix. Some are free to the rotate the wires when fixed on board. Some are with high tensile strength and suitable for trunks or large vehicles.

Frequently, we use complex material to enhance the fixture and secure. Edge clips are embeded with steel clamp and can be tightly clipped to metal boards without slips and can not remove easily. Some fasteners add additional seal to absorb vibration and protect against water drip.

Engineering fasteners developed by Hua Wei hold both advantages of durable in structure and light weight, thus suitable for apply to airplanes to decrease the consuming of gasoline. Through ISO/TS16949 management system, the optimized performance of Hua Wei's fasteners are reliable as the vehicles/machinery should be.

Cooperate and Develop New Product with Customer

Hua Wei employs Computer-Aid Engineering Analysis in the RD process to prevent development failure of product in early period and to raise the efficiency and success rate of new product design and development.

Our outstanding and experienced technical team members and excellent team work, devote to assist customers to develop new product to satisfy the unique application requirement.

Combining our expertise of materials, electrical design, precise stamping, and precise molding injection, great flexibility is allowed in our production, and we are enabled to develop products jointly with our customers.

Automotive Fasteners Application




DESIGN AND SELECTION OF ENGINEERING FASTENERS

- Fixture Method
  - Fir-tree Mount
    - One piece cable tie
      - A-46 One Piece Fixing Ties with Fir-tree and Disc 
      - A-47 Fir-tree Mount Cable Ties 
    - Cable tie and fixing accessories (Assembly)
      - A-47 Cable Ties and Fir-tree Mount Assemblies 
    - Clips
      - A-51 Cable Fixing Accessories Tape Clips (FTF-005, FTF-007) 
  - Push Mount
    - One piece cable tie
      - A-48 Push Mount Cable Ties with Disc 
      - A-49 Push Mount Cable Ties 
    - Clips
      - A-51 Cable Fixing Accessories Tape Clips (FTF-006) 
      - A-52 Automatic Harness Clips 
  - Metal Clip
    - Wires maintain horizontal against boards
      - A-50 Cable Ties and Edge Clips (FTC-001) 
    - Wires rotate to any angle against boards
      - A-50 Cable Ties and Edge Clips (FTC-002) 
  - Weld Stud/ Screw Fixture
    - A-52 Automatic Harness Hose Clips 
  - Non Fixed
    - A-50 Wire Collect Cable Ties 

Features of Hua Wei's Engineering Fasteners:

- ✓ Safety: Fasten and fix securely.
- ✓ Insulaion: Seperate from board or weld stud.
- ✓ Durability: Suitable to used in high vibration environment.
- ✓ Efficiency: Design for quick bundling and fastening, decrease the use of tools
- ✓ Heat resistant: Heat resistnat material are available and suitable for higher temperature application, ex. engine compartment

MATERIAL & APPLICATION TABLE

Product Name	One Piece Fixing Ties with Fir-tree and Disc	Cable Ties and Fir-Tree Mount Assemblies	Fir-Tree Mount Cable Ties	Push Mount Cable Ties with Disc	Push Mount Cable Ties
Type	-	-	-	-	-
Page	A-46	A-47	A-47	A-48	A-49
Material	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6
Operating Temperature					
Max.	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)
Min.	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)
Resistant Properties					
UV light/ozone	△	△	△	△	△
Oils and greases	◎	◎	◎	◎	◎
Solvents	○	○	○	○	○
Petrol	◎	◎	◎	◎	◎
Flammability	UL94V-2	UL94V-2	UL94V-2	UL94V-2	UL94V-2
Possible Applications					
Switch cabinets	★	★	★	★	★
Electronics	★	★	★	★	★
Aerospace industries	★	★	★	★	★
Turbines and engines	★	★	★	★	★
Telecommunications					
Ship-building/Marine	★	★	★	★	★
Military industry	★	★	★	★	★
Harnessmakers					
Public buildings	★	★	★	★	★
Automotives industries	★	★	★	★	★
Sample Applications					
Bundling of cables and wires	★	★	★	★	★
Bundling of hoses	★	★	★	★	★
Welded or threaded studs			★		
Drilled hole with thread	★	★	★		★
Edge fastening on steel plated					
Blind holes with thread	★	★	★		
Bundling of optical cables	★	★	★		★
Fastening optical cables	★	★	★		★
For restricted space	★	★	★		★
Post-installation fastening	★	★	★		★

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

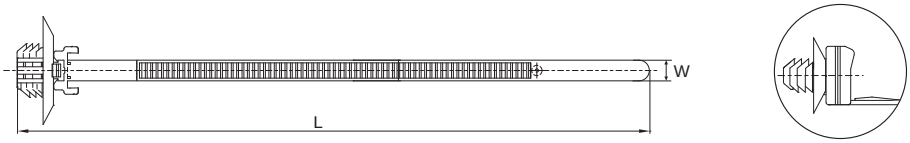
Product Name	Wire Collect Cable Ties	Cable Ties and Edge Clips	Cable Fixing Accessories Tape Clips	Automatic Harness Clips	Automatic Harness Hose Clips
Type	-	-	-	-	-
Page	A-50	A-50	A-51	A-52	A-52
Material	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6
Operating Temperature					
Max.	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)
Min.	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)
Resistant Properties					
UV light/ozone	△	△	△	△	△
Oils and greases	◎	◎	◎	◎	◎
Solvents	○	○	○	○	○
Petrol	◎	◎	◎	◎	◎
Flammability	UL94V-2	UL94V-2	UL94V-2	UL94V-2	UL94V-2
Possible Applications					
Switch cabinets	★	★	☆	★	★
Electronics	★	★	★	★	★
Aerospace industries	★			★	
Turbines and engines	★			★	
Telecommunications				★	★
Ship-building/Marine	★			★	★
Military industry				★	★
Harnessmakers	★			★	
Public buildings					☆
Automotives industries	★	★	★	★	★
Sample Applications					
Bundling of cables and wires	★	★	★	★	★
Bundling of hoses	★	★		★	★
Welded or threaded studs				☆	★
Drilled hole with thread	★		★	★	★
Edge fastening on steel plated		★			
Blind holes with thread			☆		
Bundling of optical cables	★				
Fastening optical cables	★			★	
For restricted space	★		☆	☆	☆
Post-installation fastening	★			★	

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

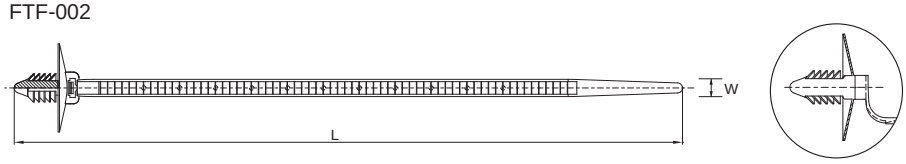
ONE PIECE FIXING TIES WITH FIR-TREE AND DISC

- One-piece fir-tree design with disc is similar to push mount cable ties but the disc can enhance the stability of fixing and avoid dust and water invasion
- Additional cured tab below the buckle will fasten and maintain bundles on the axial
- Fir-tree push mount design applied to various thickness of board or one-side thread hole
- Applied to different industries such as automotive, aviation, white goods manufacture, and panel building
- **Special specifications supplied by customers' order**
- Material: Polyamide 6,6, UL94V-2
- Color: Black

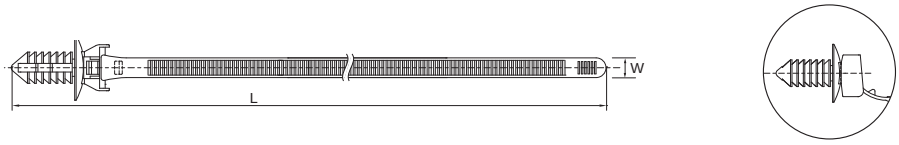
FTF-001



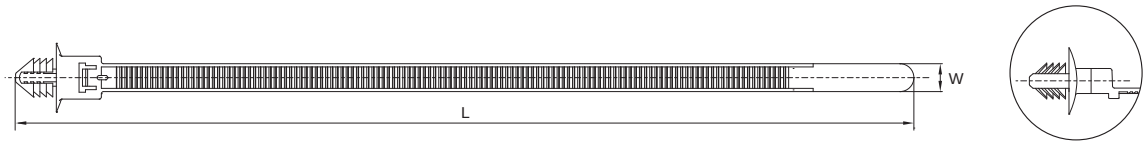
FTF-002



FTF-020, FTF-021



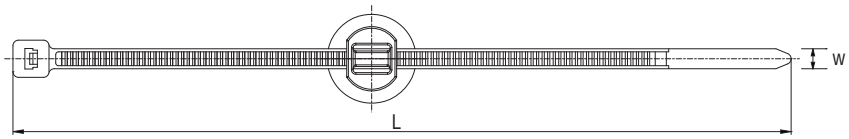
FTF-023

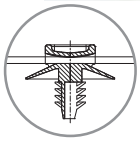


Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength			Mounting Hole ø mm (inch)	Panel Thickness mm (inch)
				N	kgf	lbf		
FTF-001	153 (6.02)	5.0 (0.20)	36 (1.42)	178	18.2	40	7.0x13.0 (0.28x0.51)	0.8~1.5 (0.32~0.06)
FTF-002	186 (7.32)	4.8 (0.19)	42 (1.65)	133	13.6	30	ø7.6 (0.30)	1.0~2.5 (0.04~0.10)
FTF-020	210 (8.25)	4.8 (0.19)	50 (1.97)	218	22.2	49	ø7.3~7.8 (0.29~0.31)	6.0~8.0 (0.24~0.32)
FTF-021	113 (4.44)	4.8 (0.19)	25 (0.98)	218	22.2	49	ø7.3~7.8 (0.29~0.31)	6.0~8.0 (0.24~0.32)
FTF-023	210 (8.25)	6.5 (0.26)	50 (1.97)	218	22.2	49	ø9.0 (0.35)	1.0~2.8 (0.04~0.11)

CABLE TIES AND FIR-TREE MOUNT ASSEMBLIES

- Fir-tree mount assemblies applied with cable ties can adjust the position of bundle and convenient to fasten and insert
- Fir-tree design with disc can enhance the stable of fixing and avoid dust and water invasion
- Fir-tree push mount design applied to various thickness of board or one-side thread hole
- Applied to different industries such as automotive, aviation, white goods manufacture, and panel building
- **Special specifications supplied by customers' order**
- Material: Polyamide 6,6, UL94V-2
- Color: Black

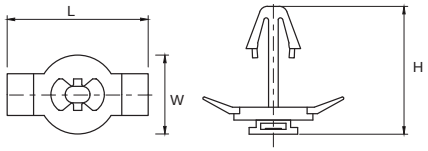




Part No.	Cable Ties Part No	Fir-Tree Mount Part No	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength			Mounting Hole ø mm (inch)	Panel Thickness mm (inch)
						N	kgf	lbf		
FTF-017	GT-150I	FTM-5	150 (5.91)	3.6 (0.14)	35 (1.38)	178	18.2	40	ø4.5 (0.18)	0.8~2.0 (0.03~0.08)
FTF-018	GT-140I	FTM-5	140 (5.51)	3.6 (0.14)	33 (1.30)	178	18.2	40	ø4.5 (0.18)	0.8~2.0 (0.03~0.08)

PUSH-IN CABLE TIE MOUNTS

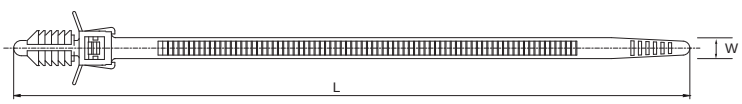
- Designed for maximum stability when securing cable bundles.
- The arrow head is utilized to form a secure anchor point for cable tie on a panel or chassis.
- Material: Polyamide 6.6, UL94V-2
- Color: Black

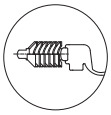


Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Height (H) mm (inch)	Mounting Hole ø mm (inch)	Panel Thickness mm (inch)	Max. Tie Width mm (inch)
PTM-8S	32.0 (1.26)	30.4 (1.20)	20 (0.79)	12 (0.47)	8 (0.31)	7.9 (0.31)
PTM-8L	40.5 (1.59)	44.7 (1.76)	25 (0.98)	12 (0.47)	16 (0.63)	7.9 (0.31)

FIR-TREE MOUNT CABLE TIES

- Fir-tree push mount design applied to varied thickness of board or one-side thread hole
- The wing design of the mount helps stabilize the tie in high vibration applications
- Applied to different industries such as automotive, aviation, white goods manufacture, and panel building
- **Special specifications supplied by customers' order**
- Material: Polyamide 6,6, UL94V-2
- Color: Black



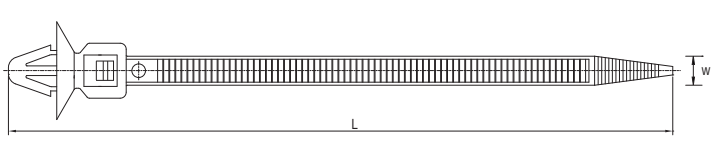


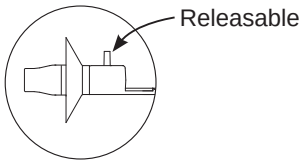
Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength			Mounting Hole ø mm (inch)	Panel Thickness mm (inch)
				N	kgf	lbf		
FTF-008	155 (6.10)	4.8 (0.19)	35 (1.38)	133	13.6	30	ø7.5~8.0 (0.30~0.32)	0.8~1.6 (0.03~0.06)

PUSH MOUNT CABLE TIES WITH DISC

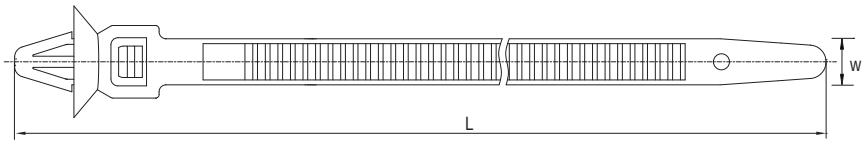
- Push mount design with disc can enhance the stable of fixing and avoid dust and water invasion
- These ties are ideal for fixing bundles along a wide range of surfaces materials such as sheet metal, wood, or cast iron
- One-piece, all plastic ties for quick, simple cable mounting
- Applied to different industries such as automotive, aviation, white goods manufacture, and panel building
- **Special specifications supplied by customers' order**
- Material: Polyamide 6,6, UL94V-2
- Color: Black

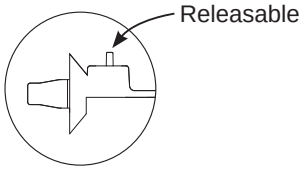
FTF-003



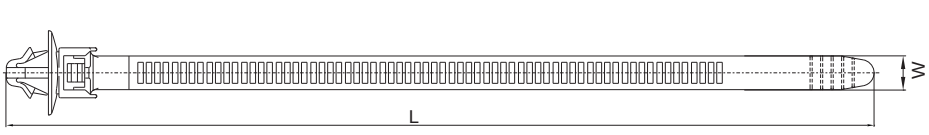


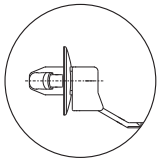
FTF-004





FTF-022



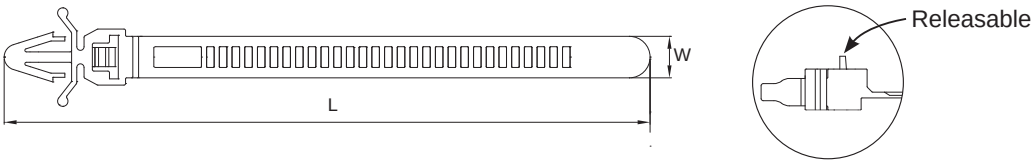


Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength			Mounting Hole ø mm (inch)	Panel Thickness mm (inch)
				N	kgf	lbf		
FTF-003	110 (4.33)	4.8 (0.19)	22 (0.87)	133	13.6	30	ø5.7 (0.22)	1.0~3.0 (0.04~0.12)
FTF-004	154 (6.06)	6.6 (0.26)	35 (1.38)	178	18.2	40	ø5.8 (0.23)	1.0~3.0 (0.04~0.12)
FTF-022	165 (6.50)	6.4 (0.25)	35 (1.38)	392	40.0	88	ø6.5 (0.26)	1.0~3.0 (0.04~0.12)

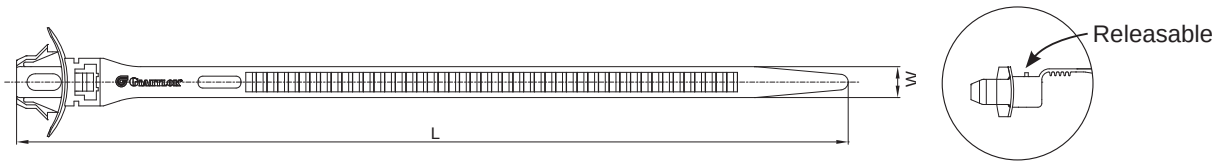
PUSH MOUNT CABLE TIES

- The wing design of the mount helps stabilize the tie in high vibration applications
- These ties are ideal for fixing bundles along a wide range of surfaces materials such as sheet metal, wood, or cast iron
- One-piece, all plastic ties for quick, simple cable mounting
- Applied to different industries such as automotive, aviation, white goods manufacture, and panel building
- **Special specifications supplied by customers' order**
- Material: Polyamide 6,6, UL94V-2
- Color: Black

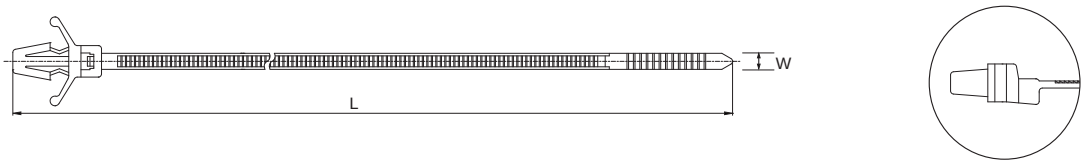
FTC-010



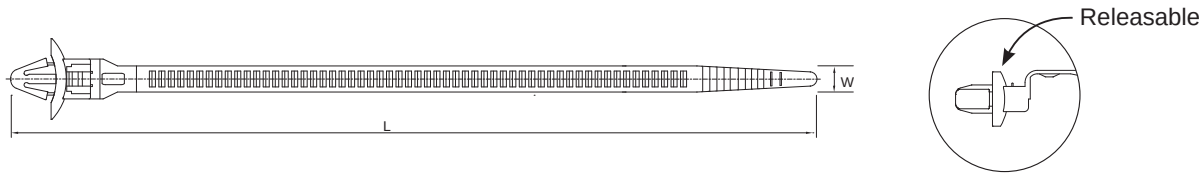
FTC-011



FTF-009



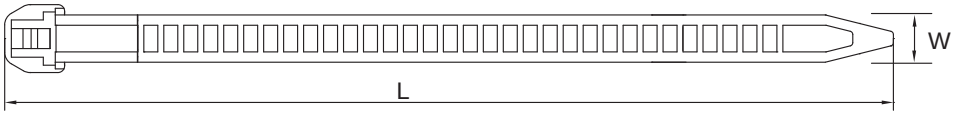
FTF-019

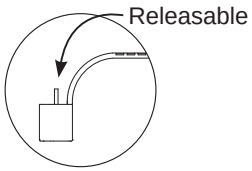


Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength			Mounting Hole ø mm (inch)	Panel Thickness mm (inch)
				N	kgf	lbf		
FTC-010	125 (4.90)	8.0 (0.31)	26 (1.02)	222	22.6	50	ø7.8 (0.31)	1.0~3.0 (0.04~0.12)
FTC-011	174 (6.86)	6.5 (0.26)	43 (1.69)	147	15	33	ø12.7 (0.50)	1.0~2.5 (0.04~0.10)
FTF-009	112 (4.41)	2.5 (0.10)	22 (0.87)	80	8.2	18	ø4.8 (0.19)	0.5~2.4 (0.02~0.09)
FTF-019	170 (6.69)	5.5 (0.22)	40 (1.57)	178	18.2	40	ø6.5 (0.26)	1.0~2.8 (0.04~0.11)

WIRE COLLECT CABLE TIES

- L-preformed tie shape helps strapped object closer attach to fixing point, minimizing the space taken
- Outside serrated design ensures not causing damages to the bundle surface, especially in vibration environments
- Low insertion force is required
- Extra extended pawl helps release the ties quicker and easier while operating in restricted space of automobile
- Releasable design is ideal for the occasion where reinstallation is required
- Added width of cable tie offered a more secure fixing that the firm fasten is asked for
- **Special specifications supplied by customers' order**
- Material: Polyamide 6,6, UL94V-2
- Color: Black



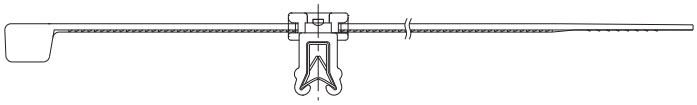


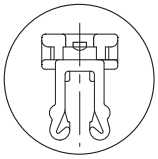
Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength		
				N	kgf	lbf
FTT-004	134 (5.26)	7.1 (0.28)	33 (1.30)	392	40.0	88

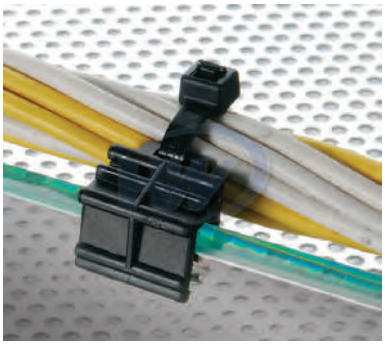
CABLE TIES AND EDGE CLIPS

- Edge clips embedded with metal clamps keep cable maintain vertical, horizontal or any angle against boards
- Applicable for circumstances which drilled holes are not allowed to, or high temperature environments which adhesive fasteners cannot fix on
- Applied to different industries such as automotive industry, wire harness, electrical and panel building
- **Special specifications supplied by customers' order**
- Material: Polyamide 6,6, UL94V-2 (plastic body). Galvanized steel (teeth)
- Color: Black

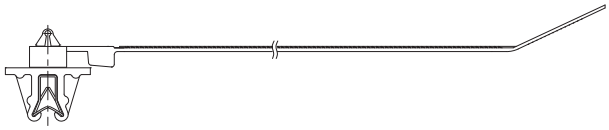
FTC-001

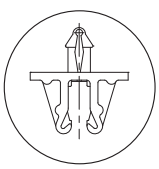






FTC-002

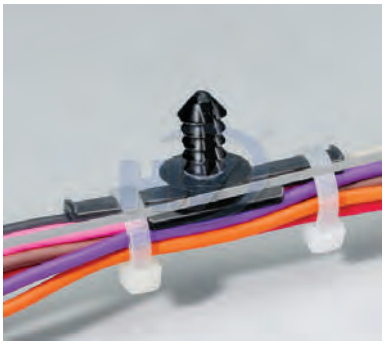




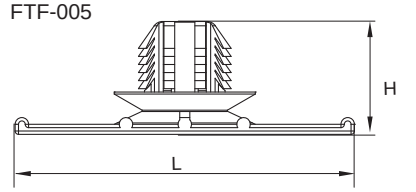
Part No.	Cable Ties Part No	Length (L) mm (inch)	Width (W) mm (inch)	Max.Bundle ø mm (inch)	Min. Loop Tensile Strength			Panel Thickness mm (inch)
					N	kgf	lbf	
FTC-001	GTPG-200STB	200 (7.87)	4.8 (0.19)	50 (1.97)	218	22.2	49	0.8~2.0 (0.03~0.08)
FTC-002	GTM-150IB	150 (5.91)	3.6 (0.14)	32 (1.26)	80	8.2	18	1.0~4.8 (0.04~0.19)

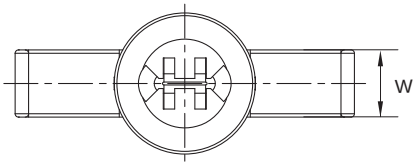
CABLE FIXING ACCESSORIES TAPE CLIPS

- Tape clips can inserted and fixed to pre-drilled holes on various metal board
- The tape support applied with cable ties or adhesive tape to fixed the bundles on both sides
- Push mount with disc can enhance the stable of fixing
- Fir-tree push mount provides more secure and reliable fixing especially for movable and vibratile tools or machine
- Especially designed for the automotive industry by offering simple and secure way for fixing cables or pipes
- **Special specifications supplied by customers' order**
- Material: Polyamide 6,6, UL94V-2
- Color: Black

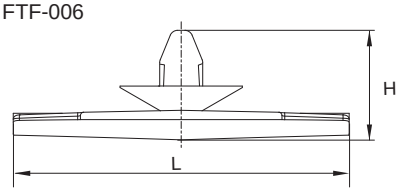


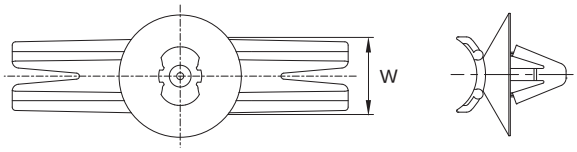
FTF-005



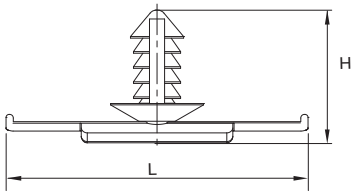


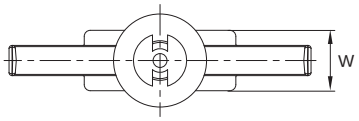
FTF-006





FTF-007

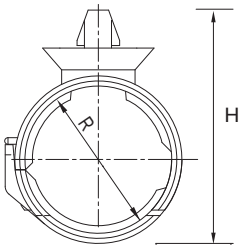


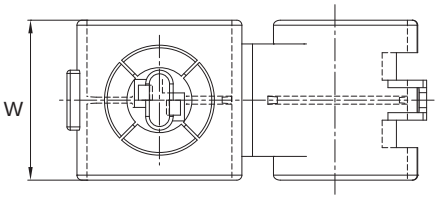


Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Height (H) mm (inch)	Mounting Hole ø mm (inch)	Panel Thickness mm (inch)
FTF-005	50 (1.97)	10.0 (0.39)	16.8 (0.66)	7.6x13.8 (0.30x0.54)	0.8~2.2 (0.32~0.09)
FTF-006	50 (1.97)	11.2 (0.44)	16.3 (0.64)	ø6.4 (2.25)	0.8~2.2 (0.32~0.09)
FTF-007	50 (1.97)	10.0 (0.39)	22.0 (0.87)	ø7.8 (0.31)	1.0 (0.04)

AUTOMATIC HARNESS CLIPS

- Bundle can be fastened in the clips without cable ties
- Wide and hard to release mount design provides secure protection and insulation for cables
- Applying by first drilling a hole on panel or board with appropriate hole diameter and board thickness, then inserting the mount head to the hole for fixture
- Push mount design with disc can enhance the stable of fixing
- **Special specifications supplied by customers' order**
- Material: Polyamide 6,6, UL94V-2
- Color: Black

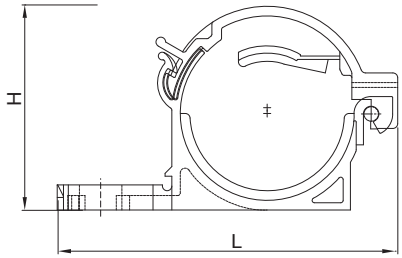


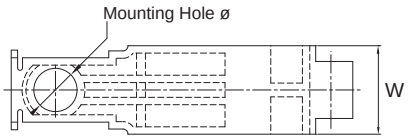


Part No.	Width (W) mm (inch)	Height (H) mm (inch)	Max.Bundle ø mm (inch)	Mounting Hole ø mm (inch)	Panel Thickness mm (inch)
FHC-001	32.0 (1.26)	46.0 (1.81)	29.0 (1.14)	ø8.4 (0.33)	1.0~4.5 (0.04~0.18)
FHC-002	32.0 (1.26)	53.5 (2.11)	37.0 (1.46)	ø8.6 (0.34)	1.0~4.8 (0.04~0.19)

AUTOMATIC HARNESS HOSE CLIPS

- Fix the clip with screw on the board
- Circular clips are hard to release to secure the pipe or cables
- Reed design fits different size of pipes
- **Special specifications supplied by customers' order**
- Material: Polyamide 6,6, UL94V-2
- Color: Black





Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Height (H) mm (inch)	Mounting Hole ø mm (inch)	Max. Bundle ø mm (inch)
FHC-003	70.6 (2.78)	18 (0.71)	42.2 (1.66)	ø8.8 (0.35)	30 (1.18)

CABLE TIE TOOLS

GIT-701

- For tensioning and cuting off cable tie with width from 2.4~4.8 mm (0.09~0.19 inch)
- Dimension: 160x70x20 mm (6.30x2.76x0.79 inch)
- Net weight: 51 g (0.11 lbs)
- Main material: Plastic

GIT-702P

- For fast, safe tensioning and cuting off cable tie with width from 2.4~4.8 mm (0.09~0.19 inch), thickness up to 1.6 mm (0.06 inch)
- Dimension: 165x135x20 mm (6.50x5.31x0.79 inch)
- Net weight: 210 g (0.46 lbs)
- Main material: Plastic

GIT-702M

- For fast, safe tensioning and cuting off cable tie with width from 2.2~4.8 mm (0.09~0.19 inch), thickness up to 1.6 mm (0.06 inch)
- Dimension: 165x125x20 mm (6.50x4.92x0.79 inch)
- Net weight: 300 g (0.66 lbs)
- Main material: Metal

GIT-704G

- For cable tie of width 3.6~10.6 mm (0.14~0.42 inch) and thickness 1.2~2.3 mm (0.05~0.09 inch)
- Dimension: 200x100x20 mm (7.87x3.94x0.79 inch)
- Net weight: 310 g (0.68 lbs)
- Main material: Metal

GIT-709

- For cable tie of width 3.6~10.6 mm (0.14~0.42 inch) and thickness 1.2~2.3 mm (0.05~0.09 inch)
- Dimension: 210x115x22 mm (8.27x4.53x0.87 inch)
- Net weight: 367g (0.808 lbs)
- Main material: Metal

BANDING TOOLS

GIT-705

- For stainless steel ties of width up to 7.9 mm (0.31 inch) and thickness up to 0.3 mm (0.01 inch)
- Single handle operation for fast installation, with controlled and adjustable tension
- Dimension: 178x140x29 mm (7.01x5.51x1.14 inch)
- Net weight: 560 g (1.23 lbs)
- Main material: Metal

GIT-2065

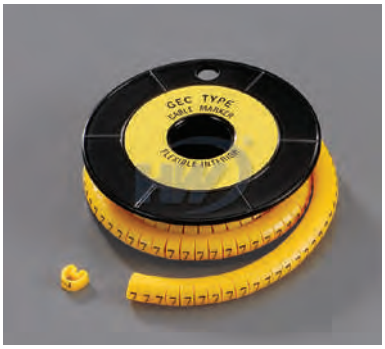
- For stainless steel ties of width up to 12 mm (0.47 inch) and thickness up to 0.3 mm (0.01 inch)
- Semi-auto module enables the function of tightening and cutting off the strip
- Dimension: 210x120x40mm (8.27x4.72x1.57 inch)
- Net weight: 550 g (1.21 lbs)
- Main material: Metal

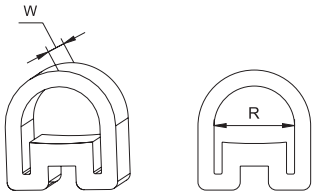
GIT-260

- For stainless steel strapping of width 9.5~19.0 mm (0.37~0.75 inch) and of thickness up to 0.76 mm (0.03 inch)
- Screw drive tension mechanism with cutter and hammer knob provides high tension with minimal effort
- Dimension: 260x200x78 mm (10.24x7.87x3.07 inch)
- Net weight: 1,870 g (4.11 lbs)
- Main material: Metal

ECM-TYPE CABLE MARKERS

- Soft PVC, concave conversed shape, number code in sleeve elasticity of in-diameter
- Usage: Peel each hack lightly
- Feature :Suitable any size, special length and marking is available to order
- Material: Soft PVC



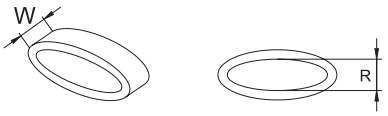


RoHS HF

Part No.	Suitable Wire		Inside ø (R)	Width (W)	Standard Markings
	sq. mm	AWG	mm	mm	
GEC-0	0.75 ~ 1.25	18 ~ 16	2.0-3.2	3.5	0~9,A~Z,+,-,/
GEC-1	0.75 ~ 3.0	18 ~ 12	3.0-5.2	4.0	0~9,A~Z,+,-,/
GEC-2	3.5 ~ 8.0	12 ~ 8	3.6-7.4	5.0	0~9,A~Z,+,-,/
GEC-3	8.0 ~ 22.0	8 ~ 4	5.2-10.0	5.5	0~9,A~Z,+,-,/

FLAT CABLE MARKERS

- With its unique oval shape design provides:
  1.Slip over cable directly (for small cable)
  2.Slip onto marker strip (for large cable or cable bundles)
- Material: Soft PVC, elasticity of in-diameter

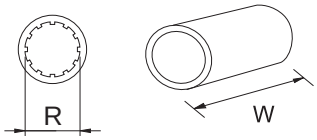


RoHS HF

Part No.	Suitable Wire		Inside ø (R)	Width (W)	Standard Markings
	sq. mm	AWG	mm	mm	
OFM-1	2.0 ~ 8.0	14 ~ 8	3.5~7.0	5.0	0~9,A~Z,+,-,/

OM-TYPE CABLE MARKERS

- Construction: Number code printed in width 10mm
- Feature: Provide wire marking, install easily and insulation
- Material: Soft PVC, flexible, transfigure hardly



RoHS HF

Part No.	Suitable Wire		Inside ø (R)	Width (W)	Standard Markings
	sq. mm	AWG	mm	mm	
GOM-0.75	0.75	18	3.0	10	0~9,A~Z,+,-,/
GOM-1.25	1.25	16	3.2	10	0~9,A~Z,+,-,/
GOM-2.0	2.00	14	3.6	10	0~9,A~Z,+,-,/
GOM-3.5	3.50	12	4.2	10	0~9,A~Z,+,-,/
GOM-5.5	5.50	10	5.1	10	0~9,A~Z,+,-,/
GOM-8.0	8.00	8	6.2	10	0~9,A~Z,+,-,/

INTRODUCTION OF HUA WEI'S FASTENERS

Hua Wei's fasteners provide multiple fixing method such as self adhesive, screw on, push mount, and steel nail. Self adhesive type is suitable for boards which can not or are unsuitable to drill holes. Screw on type offers safe and secured fixture and is suitable for larger and heavier wire bundles. Push mount type can be fixed efficiently and simply to push into pre-drilled holes. Cable clips can be used with steel nail to knock into the walls or floors, especially solid concrete ones. Cable clips can be fixed permanently on vertical walls and stay secure. The double nails make the object more secured and safe.

These fixing method offer the most efficient solution of fixture and arrangement, and separate the bundles from the boards- especially the metal board- to avoid electrical short-cut or abrasion which may cause wire damaged.

Cable clamps, applied with cable ties, can adjust the bundle diameter of cable ties to fit the size of wire bundle and achieve completely fastened. One piece clamps can save accessories of arrangement and fixture. From small cable clamps to saddle wire holders which can accommodate several wire bundles, the one piece clamps can finish the arrangement only to place or push the bundle into the wire holders with high efficiency. Cable clips offer full product line and you find best wire arrangement solution from small strand of wire to large cables, tubes or hoses.

Wall plugs are the new product line of Hua Wei, and suitable for fixing electrical control boxes, cabinets and valued art pieces on walls. Its special spread-free design prevents damage of tiles and plasters, and offers the most secured fixture.

PCB supports are specially design to separate the printed circuit board(PCB) by its varied shape and height to apply to variable applications. Dual locking type (push mount head at two ends) can separate and fix two printed circuit boards at one time. Single locking type (push mount head at one end) is suitable for separate two different design of printed circuit board. Furthermore, other methods, such as push mount plus with adhesive tape and push mount with screw on, enhance the stability and applications of PCB supports.

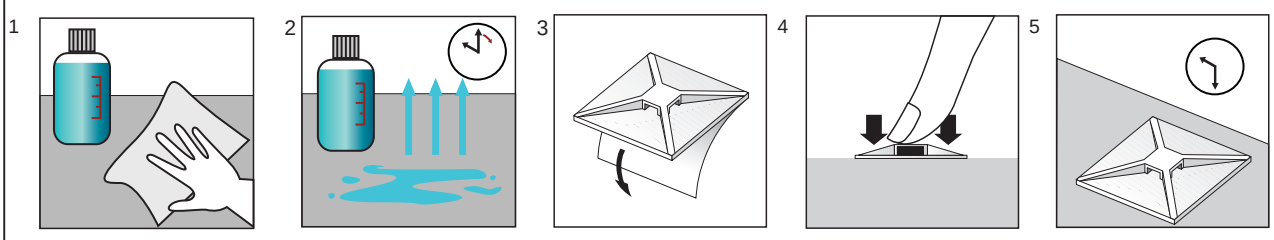
Polyamide screw series are made from premium polyamide compound, which carry with excellent chemical resistance. The multiple types and full range of dimensions satisfy all kinds of application. The features of insulation, light weight, and high precision are excellent choices for electronic equipment, medical equipment, toys industry, etc.

Information and installation instructions for self adhesive mounting bases

Hua Wei provides two ways of tie mounts: one is screw mount and another is self adhesive mount. This enables a permanent fixing lasting months or even years. To use these adhesives, the surface must be dry, and free of dust, oil, oxides, parting agents and other impurities. After cleaning, it allows the surface to dry completely. Peel off the protective backing on the self adhesive base, ensuring the adhesive is not touched. Apply the part to the surface and press down firmly for several seconds.

Instructions for use

1. The surface must be dry, free from dust, oil, oxides, parting agents and other impurities. When using other appropriate cleaning agents, ensure that they do not attack the surface or leave any residues.
2. After cleaning, it allows the surface to dry completely.
3. Peel off protective backing and ensure the adhesive area is not touched.
4. Press down firmly on the base for several seconds.
5. Depending on the type of adhesive, wait for several minutes or hours so that the adhesive can bond completely with the surface.



MATERIAL & APPLICATION TABLE

Mounting Method

- **Self Adhesive**
  - With Cable Ties
    - A-66 Self Adhesive Cable Tie Mounts 
  - Without Cable Ties
    - A-66 Self Adhesive Wire Saddles 
    - A-67 Self Adhesive Wire Clamps 
    - A-70 Self Adhesive Twist Locks 
- **Screw Fixed**
  - With Cable Ties
    - A-67 Saddle Tie Mounts 
    - A-68 Screw Applied Low Profile Mounts 
  - Without Cable Ties
    - A-69 Cable Clamps 
  - Fixing with Screw
    - A-77 Wall Plugs 
- **Push Mount**
  - With Cable Ties
    - A-70 Mounting Bases 
    - A-68 Knock-In Low Profile Mounts 
  - Without Cable Ties
    - A-71 Twist Lock with Standoff 
    - A-72 Wire Saddles 
    - A-72 Wire Puch In Clips 
- **Steel Nail Fixed**
  - A-73 Cable Clips 
  - A-74 Contract Finish Cable Clips 
  - A-74 Flat Cable Clips 
  - A-75 Dual Nails Flat Cable Clips 
  - A-75 Dual Nails Cable Clips 
- **Others**
  - A-71 Twist Locks 

MATERIAL & APPLICATION TABLE

PCB Support Series

- Dual Locking
  - A-78 Dual Locking PCB Supports (CBS-A series, CBS-K series) 
  - A-78 Dual Locking PCB Supports (Mini Type: MCBS-W series) 
  - A-81 Circuit Board Bolts (HSP series) 
  - A-80 Reverse Locking PCB Supports (CBS-R series) 
- Singal Locking
  - A-79 Rest Mount PCB Supports (CBS-P series) 
  - A-79 PCB Supports (GSA-110, RCBS-6) 
  - A-79 Reverse Locking PCB Supports (CBS-RS series) 
  - A-81 Mini Card Spacer Supports (MCBS-P series) 
- Locking + Adhesive
  - A-80 Self Adhesive PCB Supports (ACBS-M series) 
- Locking + Screw-Fixed
  - A-81 Bolt Head PCB Supports (CBS-S series) 

Polyamide Screw Series

- A-82 Plastic Rivets 
- A-83 Pan Head Phillips Slotted Screws 
- A-84 Flat Head Phillips Slotted Screws 
- A-85 Hex Head Screws 
- A-86 Hex Nuts 

MATERIAL & APPLICATION TABLE

Product Name	Self Adhesive Cable Tie Mounts	Self Adhesive Wire Saddles	Self Adhesive Wire Clamps	Saddle Tie Mounts
Type	HW	HW	HW	TM
Page	A-66	A-66	A-67	A-67
Material	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6
Operating Temperature				
Max.	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)
Min.	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)
Resistant Properties				
UV light/ozone	△	△	△	△
Oils and greases	◎	◎	◎	◎
Solvents	○	○	○	○
Petrol	◎	◎	◎	◎
Flammability	UL94V-2	UL94V-2	UL94V-2	UL94V-2
Possible Applications				
Switch cabinets	★	★	★	★
Electronics	★	★	★	
Aerospace industries	★	★	★	★
Turbines and engines				
Telecommunications	★	★	★	★
Ship-building/Marine	★	★	★	★
Military industry				
Harnessmakers				
Public buildings	★	★	★	★
Automotives industries	★	★	★	★
Sample Applications				
Bundling of cables and wires	★	☆	☆	★
Bundling of hoses	★			★
Welded or threaded studs				
Drilled hole with thread	★	★	★	★
Edge fastening on steel plated				
Blind holes in sheet metal				
Fixing with self adhesive base	★	★	★	
Bundling of optical cables				
Fastening optical cables	★	☆	☆	★
For restricted space	☆	☆	☆	☆
Fastening bellows				
Parallel wires	☆			☆
Post-installation fastening	★	★	★	★
Temporary fastening		☆	☆	
For thin, sensitive insulation				
Underwater use				
Identification of bundles				

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

MATERIAL & APPLICATION TABLE

Product Name	Knock-In Low Profile Mounts	Screw Applied Low Profile Mounts	Cable Clamps	Mounting Bases
Type	KM	SM	GCL	TH
Page	A-68	A-68	A-69	A-70
Material	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6
Operating Temperature				
Max.	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)
Min.	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)
Resistant Properties				
UV light/ozone	△	△	△	△
Oils and greases	◎	◎	◎	◎
Solvents	○	○	○	○
Petrol	◎	◎	◎	◎
Flammability	UL94V-2	UL94V-2	UL94V-2	UL94V-2
Possible Applications				
Switch cabinets		★	☆	★
Electronics		★	☆	
Aerospace industries	★	★	★	★
Turbines and engines				
Telecommunications	☆	★	☆	
Ship-building/Marine	★	★	★	
Military industry				
Harnessmakers				
Public buildings		★	★	★
Automotives industries		★		
Sample Applications				
Bundling of cables and wires	★	★	★	
Bundling of hoses	★	★	★	
Welded or threaded studs		★	★	
Drilled hole with thread	★	★	★	★
Edge fastening on steel plated				
Blind holes in sheet metal				
Fixing with self adhesive base				
Bundling of optical cables				
Fastening optical cables	★	★		
For restricted space		★		
Fastening bellows				
Parallel wires		★		
Post-installation fastening		★	★	
Temporary fastening				
For thin, sensitive insulation				
Underwater use				
Identification of bundles				

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

Product Name	Self Adhesive Twist Locks	Twist Locks	Twist Lock with Standoff	Wire Push In Clips	Wire Saddles
Type	HW	TH	TH	CH, SH, SQ	WH
Page	A-70	A-71	A-71	A-72	A-72
Material	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6
Operating Temperature					
Max.	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)
Min.	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)
Resistant Properties					
UV light/ozone	△	△	△	△	△
Oils and greases	◎	◎	◎	◎	◎
Solvents	○	○	○	○	○
Petrol	◎	◎	◎	◎	◎
Flammability	UL94V-2	UL94V-2	UL94V-2	UL94V-2	UL94V-2
Possible Applications					
Switch cabinets	★	★	★	★	★
Electronics	★	★	★	★	★
Aerospace industries	★	★	★	★	★
Turbines and engines					
Telecommunications	★	★	★	★	★
Ship-building/Marine	★	★	★	★	★
Military industry			★		
Harnessmakers			★		
Public buildings	★	★	★	★	★
Automotives industries	★	★	★	☆	☆
Sample Applications					
Bundling of cables and wires	★	★	★	★	★
Bundling of hoses			★		
Welded or threaded studs					
Drilled hole with thread			★	★	★
Edge fastening on steel plated					
Blind holes in sheet metal					
Fixing with self adhesive base	★				
Bundling of optical cables		★	★	★	★
Fastening optical cables		★		★	★
For restricted space	★	★	★		
Fastening bellows					
Parallel wires			★		
Post-installation fastening					
Temporary fastening		★			
For thin, sensitive insulation				★	★
Underwater use					
Identification of bundles					

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

MATERIAL & APPLICATION TABLE

Product Name	Cable Clip	Contract Finish Cable Clips	Flat Cable Clips	Dual Nails Flat Cable Clips	Dual Nails Cable Clips	Wall Plugs
Type	GC, GCR	GB	GF, GFC	GNF	GNC	WA
Page	A-73	A-74	A-74	A-75	A-75	A-77
Material	PE	PE	PE	PE	PE	Polyamide 6
Operating Temperature						
Max.	80ºC (176ºF)	80ºC (176ºF)	80ºC (176ºF)	80ºC (176ºF)	80ºC (176ºF)	85ºC (185ºF)
Min.	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)
Resistant Properties						
UV light/ozone	△	△	△	△	△	○
Oils and greases	◎	◎	◎	◎	◎	○
Solvents	○	○	○	○	○	○
Petrol	○	○	○	○	○	○
Flammability	--	--	--	--	--	UL94V-2
Possible Applications						
Switch cabinets	★	★	★	★		
Electronics	★	★	★	★		
Aerospace industries						
Turbines and engines						
Telecommunications	★	★	★	★	★	
Ship-building/Marine						
Military industry						
Harnessmakers	★	★	★			
Public buildings	★	★	★	★	★	★
Automotives industries						
Household Appliance						★
Toy Industy						
Medical Equioment						
Sample Applications						
Bundling of cables and wires						
Bundling of hoses	★					
Welded or threaded studs						
Drilled hole with thread						
Predrilled holes						★
Edge fastening on steel plated						
Blind holes in sheet metal						
Fixing with self adhesive base						
Bundling of optical cables						
Fastening optical cables	★	★	★	★	★	
Fastening pipes / tubes	★				★	
Fastening cooler pipe						
For restricted space	★	★	★			
Parallel wires						
Fastening identification plates						
For heavy duty fastening						★

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

Product Name	Dual Locking PCB Supports	Dual Locking PCB Supports	Rest Mount PCB Supports	PCB Supports	Reverse Locking PCB Supports
Type	CBS-A, CBS-K	MCBS-W	CBS-P	GSA-110, RCBS-6	CBS-RS
Page	A-78	A-78	A-79	A-79	A-79
Material	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6
Operating Temperature					
Max.	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)
Min.	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)
Resistant Properties					
UV light/ozone	△	△	△	△	△
Oils and greases	◎	◎	◎	◎	◎
Solvents	○	○	○	○	○
Petrol	◎	◎	◎	◎	◎
Flammability	UL94V-2	UL94V-2	UL94V-2	UL94V-2	UL94V-2
Possible Applications					
Switch cabinets	★	★	★	★	★
Electronics	★	★	★	★	★
Aerospace industries	★	★	★	★	★
Turbines and engines	★	★	★	★	★
Telecommunications	★	★	★	★	★
Ship-building/Marine	★	★	★	★	★
Military industry	★	★	★		★
Harnessmakers					
Public buildings					
Automotives industries				★	★
Sample Applications					
Bundling of cables and wires					
Bundling of hoses					
Welded or threaded studs					
Drilled hole with thread	★	★	★	★	★
Edge fastening on steel plated					
Blind holes in sheet metal					
Fixing with self adhesive base					
Bundling of optical cables					
Fastening optical cables					
For restricted space	☆	☆	☆	☆	★
Fastening bellows					
Parallel wires					
Post-installation fastening					
Temporary fastening					
For thin, sensitive insulation					
Underwater use					
Identification of bundles					

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

MATERIAL & APPLICATION TABLE

Product Name	Reverse Locking PCB Supports	Self Adhesive PCB Supports	Bolt Head PCB Supports	Mini Card Spacer Supports	Circuit Board Bolts	Plastic Rivets
Type	CBS-R	ACBS-M	CBS-S	MCBS-P	HSP-N	R-1
Page	A-80	A-80	A-81	A-81	A-81	A-82
Material	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6
Operating Temperature						
Max.	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)
Min.	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)
Resistant Properties						
UV light/ozone	△	△	△	△	△	△
Oils and greases	◎	◎	◎	◎	◎	◎
Solvents	○	○	○	○	○	○
Petrol	◎	◎	◎	◎	◎	◎
Flammability	UL94V-2	UL94V-2	UL94V-2	UL94V-2	UL94V-2	UL94V-2
Possible Applications						
Switch cabinets	★	★	★	★	★	★
Electronics	★	★	★	★	★	★
Aerospace industries	★	★	★	★	★	★
Turbines and engines	★	★	★	★	★	★
Telecommunications	★	★	★	★	★	★
Ship-building/Marine	★	★	★	★	★	★
Military industry	★	★	★	★	★	★
Harnessmakers						
Public buildings						
Automotives industries	★					
Sample Applications						
Bundling of cables and wires						
Bundling of hoses						
Welded or threaded studs						
Drilled hole with thread	★	★	★	★	★	★
Edge fastening on steel plated						
Blind holes in sheet metal						
Fixing with self adhesive base		★				
Bundling of optical cables						
Fastening optical cables						
For restricted space	★	☆	☆	☆	☆	☆
Fastening bellows						★
Parallel wires						
Post-installation fastening						
Temporary fastening						
For thin, sensitive insulation						
Underwater use						
Identification of bundles						

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

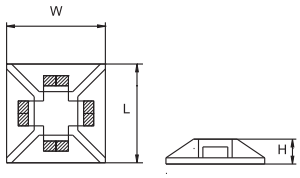
Product Name	Cord Grips	Cord Grips	Pan Head Phillips Slotted Screws	Flat Head Phillips Slotted Screws	Hex Head Screws	Hex Nuts
Type	5100/7	FP-7A	NS	NS	NS	NU
Page	A-82	A-82	A-83	A-84	A-85	A-86
Material	Polyamide 6,6+GF	Polyamide 6,6+GF	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6
Operating Temperature						
Max.	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)
Min.	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)
Resistant Properties						
UV light/ozone	△	△	△	△	△	△
Oils and greases	◎	◎	◎	◎	◎	◎
Solvents	○	○	○	○	○	○
Petrol	◎	◎	◎	◎	◎	◎
Flammability	UL94V-2	UL94V-2	UL94HB	UL94HB	UL94HB	UL94HB
Possible Applications						
Switch cabinets	★	★	★	★	★	★
Electronics	★	★	★	★	★	★
Aerospace industries	★	★				
Turbines and engines	★	★				
Telecommunications	★	★	★	★	★	★
Ship-building/Marine	★	★				
Military industry	★	★				
Harnessmakers						
Public buildings						
Automotives industries	★	★				
Household appliance			★	★	★	★
Toy industry			★	★	★	★
Medical equipment			★	★	★	★
Sample Applications						
Bundling of cables and wires						
Bundling of hoses						
Welded or threaded studs			★	★	★	★
Drilled hole with thread			★	★	★	★
Predrilled holes			★	★	★	★
Edge fastening on steel plated						
Blind holes in sheet metal						
Fixing with self adhesive base						
Bundling of optical cables						
Fastening optical cables	★	★				
For restricted space						
Fastening bellows						
For thin, sensitive insulation			☆	☆	☆	☆
Fastening identification plates						
For heavy duty fastening						

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

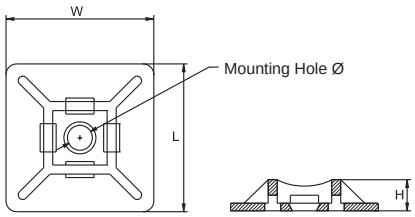
SELF ADHESIVE CABLE TIE MOUNTS

- Available in either "screw mount“ or "self adhesive mounting"
- Simple to install with a screw or bolt, the tie mounts give excellent security, particularly in areas of high vibration
- Designed to offer the maximum surface area, and in conjunction with the specially developed adhesive ensures that a very high pull-off force is achieved
- The tie mounts offer a ‘4-way’ entry for the cable tie enabling quicker and more flexible installation
- Designed specifically for holding heavier cable bundles
- Material: Polyamide 6,6, UL94V-2
- Color: Natural, black

HW-2A



HW-3A, HW-4A

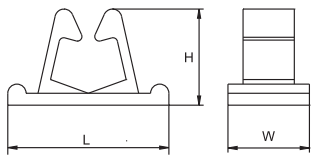


Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Height (H) mm (inch)	Mounting Hole ø mm (inch)	Max. Tie Width mm (inch)
HW-2A	12.7 (0.50)	12.7 (0.50)	3.2 (0.13)	--	3.2 (0.13)
HW-3A	19.0 (0.75)	19.0 (0.75)	4.4 (0.17)	3.5 (0.14)	4.0 (0.16)
HW-4A	27.8 (1.09)	27.8 (1.09)	5.7 (0.22)	5.7 (0.22)	5.3 (0.21)

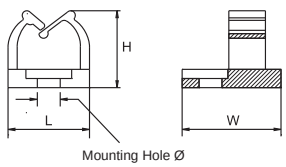
SELF ADHESIVE WIRE SADDLES

- Easy mounting with adhesive tape
- HW-6A is able to fastened by screw to secure the fixture
- Material: Polyamide 6,6, UL94V-2
- Color: Natural

HW-5A



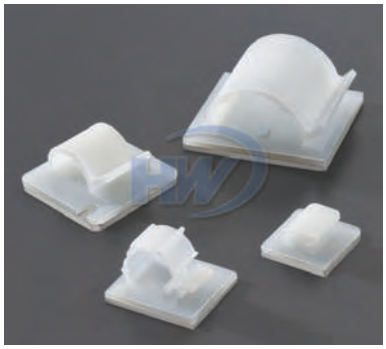
HW-6A

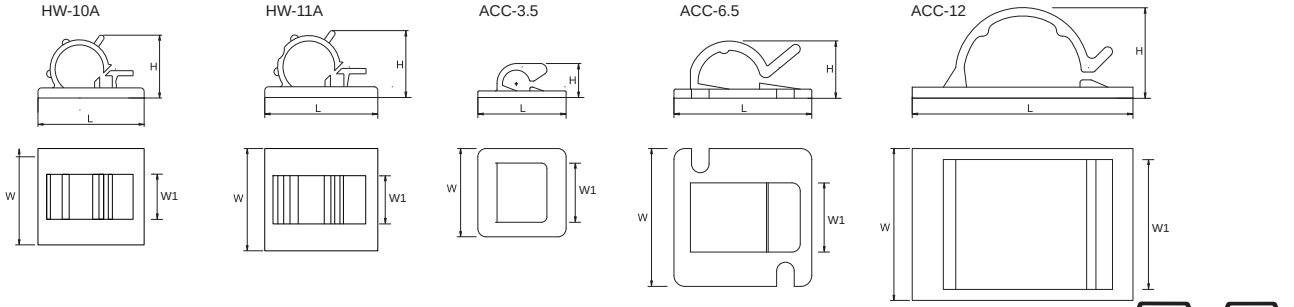


Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Height (H) mm (inch)	Mounting Hole ø mm (inch)	Max.Bundle ø mm (inch)
HW-5A	17.6 (0.69)	8.9 (0.35)	10.5 (0.41)	--	8.4 (0.33)
HW-6A	8.8 (0.35)	10.8 (0.43)	8.4 (0.33)	2.5 (0.10)	5.0 (0.20)

SELF ADHESIVE WIRE CLAMPS

- Wires, cables or hoses can be quickly and easily installed using these one piece fixing clips
- These clips are ideal for use in applications which are difficult to access, or for areas where self adhesive is the only possible fixing method (for example where fixing 'hole' would be unacceptable)
- Material: Polyamide 6,6, UL94V-2
- Color: Natural



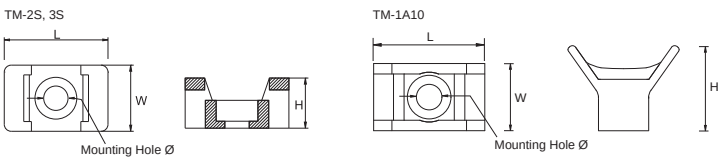


RoHS HF

Part No.	L mm (inch)	W mm (inch)	W1 mm (inch)	H mm (inch)	Max.Bundle ø mm (inch)
HW-10A	21.5 (0.85)	17.0 (0.67)	12.0 (0.47)	15.0 (0.59)	11.0 (0.43)
HW-11A	21.5 (0.85)	18.2 (0.72)	8.4 (0.33)	12.3 (0.48)	8.7 (0.34)
ACC-3.5	16.1 (0.63)	16.1 (0.63)	10.8 (0.43)	6.2 (0.24)	4.0 (0.16)
ACC-6.5	25.1 (0.99)	25.1 (0.99)	12.6 (0.50)	10.4 (0.41)	7.0 (0.28)
ACC-12	33.5 (1.32)	27.7 (1.09)	23.7 (0.93)	16.2 (0.64)	13.0 (0.51)

SADDLE TIE MOUNTS

- Fixing base and curved design gives additional support to the cables
- Applied with screw or bolt for excellent security, particularly in areas of high vibration
- Design for holding heavier cable bundles
- Material: Polyamide 6,6, UL94V-2
- Color: Natural, black and all colors are available

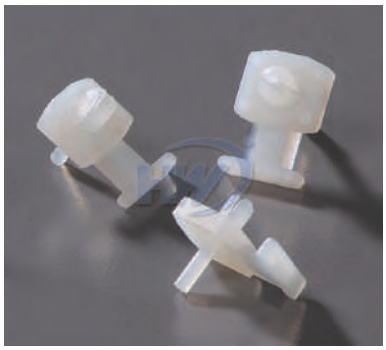


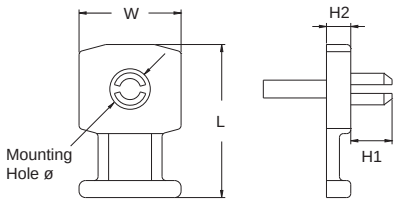
RoHS HF

Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Height (H) mm (inch)	Mounting Hole ø mm (inch)	Max. Tie Width mm (inch)
TM-2S6	14.9 (0.59)	9.5 (0.37)	7.2 (0.28)	3.7 (0.15)	4.8 (0.19)
TM-2S8	14.9 (0.59)	9.5 (0.37)	7.2 (0.28)	4.5 (0.18)	4.8 (0.19)
TM-3S8	21.9 (0.86)	15.9 (0.63)	9.7 (0.38)	4.5 (0.18)	9.0 (0.35)
TM-3S10	21.9 (0.86)	15.9 (0.63)	9.7 (0.38)	5.0 (0.20)	9.0 (0.35)
TM-3S25	21.9 (0.86)	15.9 (0.63)	9.7 (0.38)	6.4 (0.25)	9.0 (0.35)
TM-1A10	22.7 (0.89)	13.6 (0.54)	17.2 (0.68)	5.0 (0.20)	9.0 (0.35)

KNOCK-IN LOW PROFILE MOUNTS

- The special ‘diagonal’ design of the fixing guarantees a secure installation at all times
- Once installed the mounts offer a firm fixing a wide variety of cable ties
- The two-piece ‘wedge’ ensures that once installed the mounts will not come away from the panel, ideal for use where a high pull out force is required
- Particularly designed for the areas with restricted access
- Material: Polyamide 6,6, UL94V-2
- Color: Natural



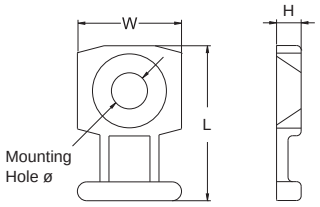


RoHS HF

Part No.	L mm (inch)	W mm (inch)	H1 mm (inch)	H2 mm (inch)	Mounting Hole ø mm (inch)	Max. Tie Width mm (inch)
KM-K36	18.9 (0.74)	12.6 (0.50)	5.1 (0.20)	3.0 (0.12)	3.6 (0.14)	4.8 (0.19)
KM-K43	18.9 (0.74)	12.6 (0.50)	5.1 (0.20)	3.0 (0.12)	4.3 (0.17)	4.8 (0.19)
KM-K50	18.9 (0.74)	12.6 (0.50)	5.1 (0.20)	3.0 (0.12)	5.0 (0.20)	4.8 (0.19)

SCREW APPLIED LOW PROFILE MOUNTS

- Installed "outside serrated" and take up no more space than the cable itself
- Particularly used in telecoms equipment, switch gear and control cabinets
- Particularly suitable for applications with minimal space
- Material: Polyamide 6,6, UL94V-2
- Color: Natural

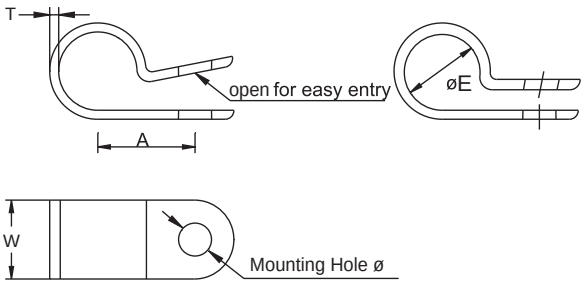


RoHS HF

Part No.	L mm (inch)	W mm (inch)	H mm (inch)	Mounting Hole ø mm (inch)	Max. Tie Width mm (inch)
SM-5	10.2 (0.40)	8.1 (0.32)	2.5 (0.10)	3.5 (0.14)	2.5 (0.10)
SM-8	18.9 (0.74)	12.6 (0.50)	3.0 (0.12)	4.4 (0.17)	4.8 (0.19)

CABLE CLAMPS

- Light weight design with strong fixing particularly suitable for use in areas of aircraft and aerospace
- Material: Polyamide 6,6, UL94V-2
- Color: Natural, black



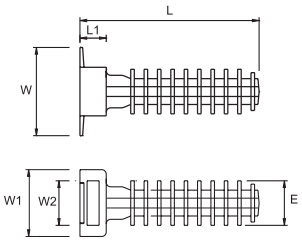
RoHS HF

Part No.	Mounting Hole Centers (A) mm (inch)	Width (W) mm (inch)	Thickness (T) mm (inch)	Max.Bundle ø (E) mm (inch)	Mounting Hole ø mm (inch)
GCL-1/8S	8.2 (0.32)	9.1 (0.36)	1.3 (0.05)	3.3 (0.13)	5.5 (0.21)
GCL-3/16S	9.6 (0.38)	9.1 (0.36)	1.3 (0.05)	4.8 (0.19)	5.5 (0.21)
GCL-1/4S	10.3 (0.41)	9.1 (0.36)	1.3 (0.05)	6.6 (0.26)	5.5 (0.21)
GCL-5/16S	10.6 (0.42)	9.1 (0.36)	1.3 (0.05)	7.8 (0.31)	5.5 (0.21)
GCL-1/2S	23.8 (0.94)	9.4 (0.37)	1.3 (0.05)	12.7 (0.5)	5.4 (0.21)
GCL-5/16L	10.6 (0.42)	12.7 (0.50)	1.3 (0.05)	7.6 (0.30)	4.4 (0.17)
GCL-3/8S	11.9 (0.47)	9.2 (0.36)	1.3 (0.05)	9.7 (0.38)	5.5 (0.21)
GCL-1/8	9.1 (0.36)	12.7 (0.50)	1.5 (0.06)	2.9 (0.11)	5.4 (0.21)
GCL-1/4	11.4 (0.45)	12.7 (0.50)	1.5 (0.06)	5.9 (0.23)	5.3 (0.21)
GCL-3/8	13.4 (0.53)	12.1 (0.48)	1.5 (0.06)	9.1 (0.36)	5.3 (0.21)
GCL-1/2	15.0 (0.59)	12.7 (0.50)	1.5 (0.06)	12.2 (0.48)	5.3 (0.21)
GCL-9/16	15.8 (0.62)	12.7 (0.50)	1.5 (0.06)	13.8 (0.54)	5.3 (0.21)
GCL-5/8	27.2 (1.07)	12.4 (0.49)	1.3 (0.05)	15.5 (0.61)	5.3 (0.21)
GCL-3/4	19.8 (0.78)	12.7 (0.50)	1.5 (0.06)	18.6 (0.73)	5.3 (0.21)
GCL-7/8	21.4 (0.84)	12.7 (0.50)	1.5 (0.06)	21.8 (0.86)	5.3 (0.21)
GCL-1-1/8	24.6 (0.97)	12.7 (0.50)	1.5 (0.06)	27.9 (1.10)	5.3 (0.21)

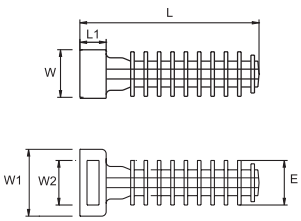
MOUNTING BASES

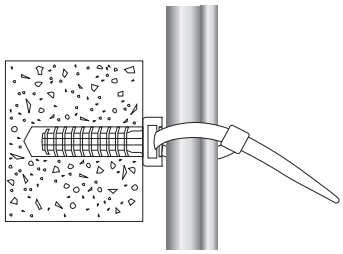
- Suitable for use in a wide range of materials including concrete, brick, block or wood
- The extended head allows the bundles to be located at a distance from the brickwork with the holders
- The holders, in conjunction with a cable tie, can be used either indoors or outdoors for a diverse range of applications from holding climbing plants, to securing cables running between buildings
- Material: Polyamide 6,6, UL94V-2
- Color: Black

TH-2, TH-3



TH-2A, TH-3A



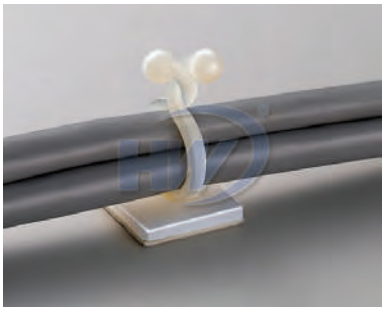


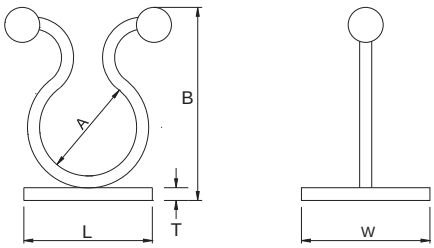
RoHS HF

Part No.	L mm (inch)	L1 mm (inch)	W mm (inch)	W1 mm (inch)	W2 mm (inch)	E mm (inch)	Drill Hole ø mm (inch)	Max. Tie Width mm (inch)
TH-2	40.5 (1.59)	5.9 (0.23)	20.0 (0.79)	15.0 (0.59)	10.0 (0.39)	9.5 (0.37)	8.0 (0.31)	9.0 (0.35)
TH-2A	40.5 (1.59)	5.9 (0.23)	10.9 (0.43)	15.0 (0.59)	10.0 (0.39)	9.5 (0.37)	8.0 (0.31)	9.0 (0.35)
TH-3	37.5 (1.48)	5.9 (0.23)	20.0 (0.79)	15.0 (0.59)	10.0 (0.39)	8.0 (0.31)	7.0 (0.28)	9.0 (0.35)
TH-3A	37.5 (1.48)	5.9 (0.23)	10.9 (0.43)	15.0 (0.59)	10.0 (0.39)	8.0 (0.31)	7.0 (0.28)	9.0 (0.35)

SELF ADHESIVE TWIST LOCKS

- Strong adhesion for quick and easy installation
- Reusable and releasable for easy wire bundling
- Easy open-and-twist fit to cables
- Material: Polyamide 6,6, UL94V-2
- Color: Natural



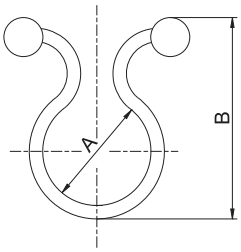


RoHS HF

Part No.	L mm (inch)	W mm (inch)	T mm (inch)	A mm (inch)	B mm (inch)	Max.Bundle ø mm (inch)
HW-8Aa	17.0 (0.70)	20.0 (0.79)	2.0 (0.08)	8.6 (0.34)	24.1 (0.95)	7.6 (0.30)
HW-8Ab	20.0 (0.79)	20.0 (0.79)	2.0 (0.08)	16.0 (0.70)	32.0 (1.26)	15.0 (0.59)

TWIST LOCKS

- Reusable and releasable for easy wire bundling
- Easy open-and-twist to cables
- Material: Polyamide 6,6, UL94V-2
- Color: Natural



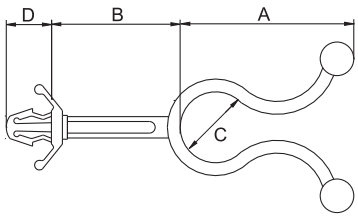
RoHS HF

Part No.	A mm (inch)	B mm (inch)	Max.Bundle ø mm (inch)
TH-E	5.2 (0.21)	21.0 (0.83)	4.5 (0.18)
TH-F	8.3 (0.33)	25.2 (0.99)	7.3 (0.29)
TH-G	11.5 (0.45)	30.9 (1.22)	10.5 (0.41)
TH-H	15.0 (0.59)	35.1 (1.38)	14.0 (0.55)

Part No.	A mm (inch)	B mm (inch)	Max.Bundle ø mm (inch)
TH-I	18.0 (0.71)	40.0 (1.58)	17.0 (0.70)
TH-J	19.5 (0.77)	42.5 (1.67)	19.0 (0.75)
TH-K	22.5 (0.89)	45.5 (1.79)	22.0 (0.87)

TWIST LOCK WITH STANDOFF

- To separate wires from the board for avoiding hot components' interference
- Cable and wire bundles load and unload with a fingertip twist
- Material: Polyamide 6,6, UL94V-2
- Color: Natural

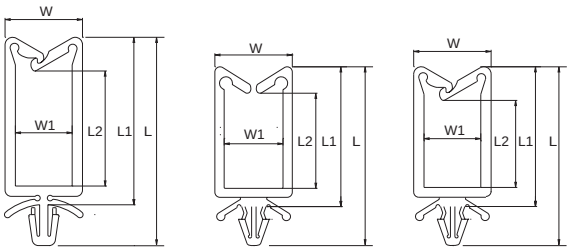


RoHS HF

Part No.	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	Max.Bundle ø mm (inch)	Mounting Hole ø mm (inch)	Panel Thickness mm (inch)
TH-A	28.4 (1.12)	21.0 (0.83)	12.0 (0.47)	7.5 (0.30)	11.0 (0.43)	4.8 (0.19)	2.2 (0.09)
TH-B	19.4 (0.76)	33.5 (1.32)	6.0 (0.24)	7.5 (0.30)	5.0 (0.20)	4.8 (0.19)	2.2 (0.09)
TH-B1	19.0 (0.75)	6.0 (0.24)	6.0 (0.24)	7.5 (0.30)	5.0 (0.20)	4.8 (0.19)	2.2 (0.09)
TH-B2	19.4 (0.76)	33.5 (1.32)	5.5 (0.22)	7.5 (0.30)	4.5 (0.18)	4.8 (0.19)	2.2 (0.09)
TH-C	26.3 (1.04)	4.7 (0.19)	11.0 (0.43)	7.5 (0.30)	10.0 (0.39)	4.8 (0.19)	2.2 (0.09)

WIRE PUSH IN CLIPS

- The shape of the wire saddle ensures that they can accept either single or multiple cables, whilst the design of the cable entry allows cables to be simply pushed into place
- The self-locking feature ensures that once inside the saddle the wires cannot be removed accidentally
- The arrowhead design of fixing ensures simple and secure installation and only needs access to the panel from one side
- With the increased complexity of electronic and electrical installations the use of the wire saddle enables cables to be installed using the minimum amount of space, a typical application would be in the frames/ rail of control cabinets
- Material: Polyamide 6,6, UL94V-2
- Color: Natural



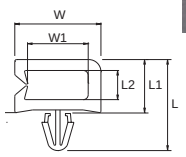
CH Type SH Type SQ Type

RoHS HF

Part No.	L mm (inch)	L1 mm (inch)	L2 mm (inch)	W mm (inch)	W1 mm (inch)	Mounting Hole ø mm (inch)	Panel Thickness mm (inch)
CH-A	25.9 (1.02)	18.0 (0.71)	8.8 (0.35)	15.0 (0.59)	11.0 (0.43)	4.8 (0.19)	1.7 (0.07)
CH-B	34.9 (1.37)	27.0 (1.06)	17.5 (0.69)	15.0 (0.59)	11.0 (0.43)	4.8 (0.19)	1.7 (0.07)
CH-C	42.9 (1.69)	35.0 (1.38)	26.0 (1.02)	15.0 (0.59)	11.0 (0.43)	4.8 (0.19)	1.7 (0.07)
SH-A	21.8 (0.86)	13.2 (0.52)	4.8 (0.19)	15.0 (0.59)	11.4 (0.45)	4.8 (0.19)	2.2 (0.09)
SH-B	27.0 (1.06)	18.4 (0.72)	9.8 (0.39)	15.0 (0.59)	11.4 (0.45)	4.8 (0.19)	2.2 (0.09)
SH-C	35.8 (1.41)	27.2 (1.07)	19.0 (0.75)	15.0 (0.59)	11.4 (0.45)	4.8 (0.19)	2.2 (0.09)
SH-D	43.8 (1.72)	35.2 (1.39)	26.9 (1.06)	15.0 (0.59)	11.4 (0.45)	4.8 (0.19)	2.2 (0.09)
SQ-A	20.7 (0.81)	13.1 (0.52)	4.8 (0.19)	15.0 (0.59)	11.2 (0.44)	4.8 (0.19)	2.0 (0.08)
SQ-B	25.7 (1.01)	18.1 (0.71)	10.0 (0.39)	15.0 (0.59)	11.2 (0.44)	4.8 (0.19)	2.0 (0.08)
SQ-C	34.7 (1.37)	27.1 (1.07)	19.0 (0.75)	15.0 (0.59)	11.2 (0.44)	4.8 (0.19)	2.0 (0.08)
SQ-D	42.9 (1.69)	35.3 (1.39)	27.0 (1.06)	15.0 (0.59)	11.2 (0.44)	4.8 (0.19)	2.0 (0.08)

WIRE SADDLES

- The shape of the wire saddle ensures that they can accept either single or multiple cables, whilst the design of the cable entry allows cables to be simply pushed into place
- The self-locking feature ensures that once inside the saddle the wires cannot be removed accidentally
- The arrowhead design of fixing ensures simple and secure installation and only needs access to the panel from one side
- With the increased complexity of electronic and electrical installations, the use of the wire saddle enables cables to be installed using the minimum amount of space, a typical application would be in the frames/ rail of control cabinets
- Material: Polyamide 6,6, UL94V-2
- Color: Natural

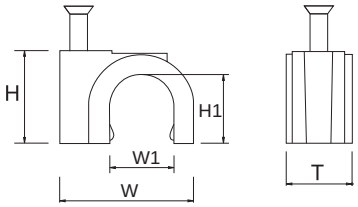


RoHS HF

Part No.	L mm (inch)	L1 mm (inch)	L2 mm (inch)	W mm (inch)	W1 mm (inch)	Mounting Hole ø mm (inch)	Panel Thickness mm (inch)
WH-A	15.0 (0.59)	8.2 (0.32)	4.8 (0.19)	14.2 (0.60)	10.0 (0.39)	4.8 (0.19)	1.6 (0.06)

CABLE CLIPS

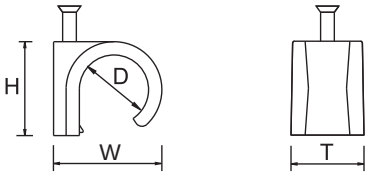
- Fixable, good elasticity, to bear collision, unable broken
- Inserted nail, nail stick to plastic seat, save time and cost down
- Material: Polyethylene (plastic body), carbon steel (nail)
- Color: Mostly grey and white, other colors are also available



Part No.	W mm (inch)	W1 mm (inch)	H mm (inch)	H1 mm (inch)	T mm (inch)	Nails mm (inch)
GC-0.35	8.6 (0.34)	3.5 (0.14)	5.9 (0.23)	3.7 (0.15)	5.0 (0.20)	ø2.0x15 (0.08x0.60)
GC-0.4	10.0 (0.39)	4.0 (0.16)	6.6 (0.26)	4.2 (0.17)	5.2 (0.20)	ø2.5x18 (0.10x0.71)
GC-0.5	12.0 (0.47)	5.0 (0.20)	7.6 (0.30)	5.3 (0.21)	6.3 (0.25)	ø2.5x18 (0.10x0.71)
GC-1	12.4 (0.49)	6.0 (0.24)	9.0 (0.35)	6.6 (0.26)	6.3 (0.25)	ø2.5x20 (0.10x0.79)
GC-1.5	14.3 (0.56)	7.0 (0.28)	11.0 (0.43)	7.2 (0.28)	6.3 (0.25)	ø2.5x22 (0.10x0.87)
GC-2	14.8 (0.58)	8.0 (0.31)	11.5 (0.45)	8.6 (0.34)	6.8 (0.27)	ø2.5x22 (0.10x0.87)
GC-2.5	17.6 (0.69)	9.0 (0.35)	12.0 (0.47)	9.0 (0.35)	7.0 (0.28)	ø2.5x25 (0.10x0.99)
GC-3	17.9 (0.70)	10.0 (0.39)	13.4 (0.53)	10.5 (0.41)	7.0 (0.28)	ø2.5x27 (0.10x1.07)
GC-3.5	18.7 (0.74)	11.0 (0.43)	16.6 (0.65)	12.2 (0.48)	9.0 (0.35)	ø2.5x27 (0.10x1.07)
GC-4	20.0 (0.79)	12.0 (0.47)	16.0 (0.63)	12.5 (0.49)	9.0 (0.35)	ø2.5x27 (0.10x1.07)
GC-6	22.0 (0.87)	14.0 (0.55)	20.5 (0.81)	15.6 (0.61)	9.0 (0.35)	ø3.0x35 (0.12x1.38)
GC-7	25.0 (0.98)	16.0 (0.63)	21.7 (0.85)	17.0 (0.67)	11.8 (0.46)	ø3.2x38 (0.13x1.50)
GC-7S	25.0 (0.98)	16.0 (0.63)	21.7 (0.85)	17.0 (0.67)	11.8 (0.46)	ø2.5x38 (0.10x1.50)
GC-7.2	27.8 (1.09)	18.0 (0.71)	22.0 (0.87)	17.5 (0.69)	10.6 (0.42)	ø3.2x38 (0.13x1.50)
GC-7.5	29.0 (1.14)	20.0 (0.79)	23.5 (0.93)	18.5 (0.73)	10.4 (0.41)	ø3.2x38 (0.13x1.50)
GC-7.5S	29.0 (1.14)	20.0 (0.79)	23.5 (0.93)	18.5 (0.73)	10.4 (0.41)	ø2.5x38 (0.10x1.50)
GC-8	32.7 (1.29)	22.0 (0.87)	27.8 (1.09)	22.5 (0.89)	11.0 (0.43)	ø3.2x42 (0.13x1.66)
GC-9	39.0 (1.54)	25.0 (0.98)	31.6 (1.24)	26.0 (1.02)	13.0 (0.51)	ø3.2x47 (0.13x1.86)
GC-10	45.5 (1.79)	32.0 (1.26)	40.0 (1.57)	33.5 (1.32)	13.7 (0.54)	ø3.6x56 (0.15x2.21)
GCR-3.5	8.5 (0.33)	3.5 (0.14)	5.0 (0.20)	3.2 (0.13)	5.1 (0.20)	ø1.5x18 (0.06x0.71)
GCR-6	12.0 (0.47)	5.5 (0.22)	7.5 (0.30)	5.5 (0.22)	6.0 (0.24)	ø2.0x24 (0.08x0.95)
GCR-7	13.3 (0.52)	7.0 (0.28)	8.5 (0.33)	6.5 (0.26)	6.8 (0.27)	ø2.0x24 (0.08x0.95)
GCR-8	15.0 (0.59)	7.0 (0.28)	10.0 (0.39)	7.5 (0.30)	8.0 (0.31)	ø2.0x24 (0.08x0.95)

CONTRACT FINISH CABLE CLIPS

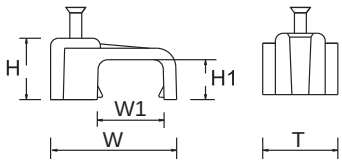
- Fixable, good elasticity, to bear collision, unable broken
- Inserted nail, nail stick to plastic seat, save time and cost down
- Material: Polyethylene (plastic body), carbon steel (nail)
- Color: Mostly white, other colors are also available



Part No.	W mm (inch)	T mm (inch)	H mm (inch)	D mm (inch)	Nails mm (inch)
GB-1	8.4 (0.33)	7.0 (0.28)	4.8 (0.19)	3.0 (0.12)	ø1.5x21 (0.06x0.83)
GB-2	10.0 (0.39)	6.0 (0.24)	7.0 (0.28)	4.6 (0.18)	ø1.8x26 (0.08x1.03)
GB-3	12.0 (0.47)	8.8 (0.35)	9.2 (0.36)	7.0 (0.28)	ø1.8x26 (0.08x1.03)
GB-4	14.8 (0.58)	9.6 (0.38)	12.5 (0.49)	9.5 (0.37)	ø1.8x26 (0.08x1.03)
GB-5	20.0 (0.79)	11.8 (0.46)	17.0 (0.67)	14.8 (0.58)	ø2.5x40 (0.10x1.58)

FLAT CABLE CLIPS

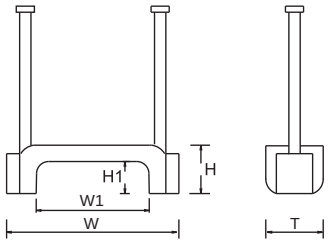
- Fixable, good elasticity, to bear impact, unable broken
- Inserted nail, nail stick to plastic seat, save time and cost down
- Material: Polyethylene (plastic body), carbon steel (nail)
- Color: Mostly white, other colors are also available



Part No.	W mm (inch)	W1 mm (inch)	H mm (inch)	H1 mm (inch)	T mm (inch)	Nails mm (inch)
GF-0.7	12.0 (0.47)	5.5 (0.22)	5.4 (0.21)	3.1 (0.12)	7.0 (0.28)	ø2.0x15 (0.08x0.60)
GF-1.2	13.0 (0.51)	6.2 (0.24)	5.4 (0.21)	3.8 (0.15)	7.4 (0.29)	ø2.0x15 (0.08x0.60)
GF-1.6	14.5 (0.57)	8.0 (0.31)	8.0 (0.31)	5.0 (0.20)	9.3 (0.37)	ø2.0x15 (0.08x0.60)
GF-2.0	16.0 (0.63)	8.5 (0.33)	8.0 (0.31)	5.0 (0.20)	9.9 (0.39)	ø2.5x18 (0.10x0.71)
GF-2.2	17.2 (0.68)	10.0 (0.39)	10.0 (0.39)	6.5 (0.26)	9.9 (0.39)	ø2.5x22 (0.10x0.87)
GFC-PT	10.1 (0.40)	5.0 (0.20)	3.6 (0.14)	1.8 (0.07)	5.4 (0.21)	ø1.5x15 (0.06x0.60)
GFC-0.75	10.8 (0.43)	6.0 (0.24)	6.2 (0.24)	4.1 (0.16)	6.2 (0.24)	ø1.5x18 (0.06x0.71)
GFC-1.0	15.8 (0.62)	8.0 (0.31)	7.5 (0.30)	4.3 (0.17)	9.4 (0.37)	ø2.0x24 (0.08x0.95)
GFC-1.5	16.5 (0.65)	9.0 (0.35)	7.8 (0.31)	5.0 (0.20)	9.5 (0.37)	ø2.0x24 (0.08x0.95)
GFC-2.0	19.3 (0.76)	11.3 (0.44)	8.0 (0.31)	5.0 (0.20)	10.6 (0.42)	ø2.0x24 (0.08x0.95)
GFC-2.5	17.0 (0.67)	10.0 (0.39)	8.3 (0.33)	5.3 (0.21)	10.5 (0.41)	ø2.0x24 (0.08x0.95)
GFC-4.0	19.6 (0.77)	11.4 (0.45)	9.6 (0.38)	6.5 (0.26)	10.5 (0.41)	ø2.0x24 (0.08x0.95)
GFC-6.0	21.0 (0.83)	13.5 (0.53)	10.5 (0.41)	7.2 (0.28)	10.5 (0.41)	ø2.0x29 (0.08x1.15)
GFC-10	24.3 (0.96)	17.2 (0.68)	11.6 (0.46)	8.6 (0.34)	10.3 (0.41)	ø2.0x29 (0.08x1.15)
GFC-16	28.0 (1.10)	20.1 (0.79)	13.4 (0.53)	10.2 (0.40)	12.0 (0.47)	ø2.5x34 (0.10x1.34)

DUAL NAILS FLAT CABLE CLIPS

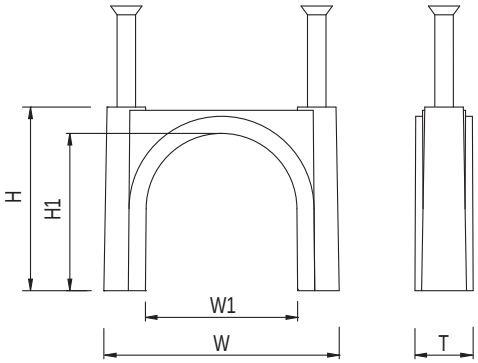
- Fixable, good elasticity, to bear collision, unable broken
- Inserted nail, nail stick to plastic seat, save time and cost down
- Dual nail could strengthen adhesion
- Suitable for fastening big flat wires
- Material: Polyethylene (plastic body), carbon steel (nail)
- Color: Mostly white, other colors are also available



Part No.	W mm (inch)	W1 mm (inch)	H mm (inch)	H1 mm (inch)	T mm (inch)	Nails mm (inch)
GNF-13H	23.4 (0.92)	13.8 (0.54)	9.4 (0.37)	6.8 (0.27)	9.4 (0.37)	ø1.8x31 (0.07x1.23)
GNF-19H	29.8 (1.17)	19.5 (0.77)	9.4 (0.37)	6.8 (0.27)	9.5 (0.37)	ø1.8x31 (0.07x1.23)

DUAL NAILS CABLE CLIPS

- Fixable, good elasticity, to bear impact, unable broken
- Inserted nail, nail stick to plastic seat, save time and cost down
- Dual nail could strengthen adhesion
- Suitable for fasten large PVC pipe or cables
- Material: Polyethylene (plastic body), carbon steel (nail)
- Color: Mostly grey, other colors are also available

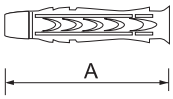


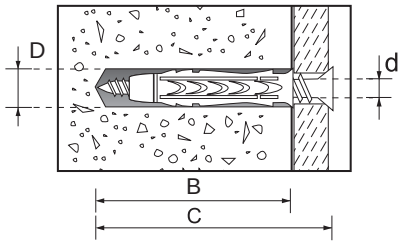
Part No.	W mm (inch)	W1 mm (inch)	H mm (inch)	H1 mm (inch)	T mm (inch)	Nails mm (inch)
GNC-11	60.3 (2.37)	40.0 (1.57)	50.4 (1.98)	41.7 (1.64)	13.0 (0.51)	ø4.0x68 (0.16x2.68)
GNC-12	74.7 (2.94)	49.0 (1.93)	57.7 (2.27)	51.5 (2.03)	15.5 (0.61)	ø4.0x78 (0.16x3.08)
GNC-14	83.7 (3.30)	62.0 (2.44)	71.8 (2.83)	62.4 (2.46)	17.2 (0.68)	ø4.5x97 (0.18x3.82)

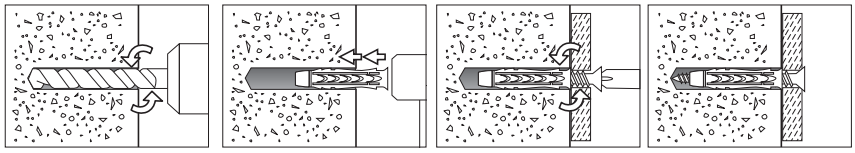
WALL PLUGS

- 4-way expansion form lock guarantees highest grip
- Anti-rotation lugs prevent the plug rotating in the drill hole
- The special spread-free neck prevents damage of tiles and plaster
- Simple and quick push-through installation reduces installation time
- Material: Polyamide 6, UL94V-2
- Color: Grey, RAL 7035

Anchor







RoHS HF

Part No.	Anchor Length (A) mm (inch)	Drill Hole Ø (D) mm (inch)	Drill Hole Depth (B) mm (inch)	Screw Size (dxC) mm (inch)
WA-D5	25.4 (1.00)	5.8 (0.23)	35.0 (1.38)	ø4.0 x 30~35 (ø0.16x1.18~1.38)
WA-D6	30.0 (1.18)	6.0 (0.24)	40.0 (1.57)	ø4.5 x 35~40 (ø0.18x1.38~1.57)
WA-D8	40.0 (1.57)	8.0 (0.31)	50.0 (1.97)	ø5.0 x 45~50 (ø0.20x1.77~1.97)
WA-D10	50.0 (1.97)	10.0 (0.39)	70.0 (2.76)	ø6.5 x 55~70 (ø0.26x2.17~2.76)
WA-D12	60.0 (2.36)	12.0 (0.47)	80.0 (3.15)	ø7.5 x 65~80 (ø0.30x2.56~3.15)

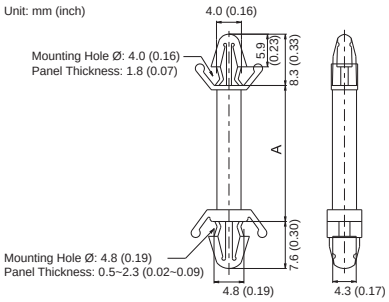
* Screws are available upon request

Paper Box

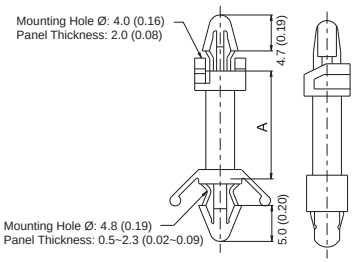
Updated 2024/11/25

DUAL LOCKING PCB SUPPORTS

- CBS-A type:
  - Installed easily and quickly by hand
  - Barbed arrow mounts on both ends locking securely
  - This support can be shaped to lock in the board for PCB/PCB or PCB/ CHASSIS spacer
- CBS-K type:
  - None tool are required in installation
  - Reusable
  - Pinch head are easily plugged in and pulled out
- Material: Polyamide 6,6, UL94V-2
- Color: Natural



CBS-A Type



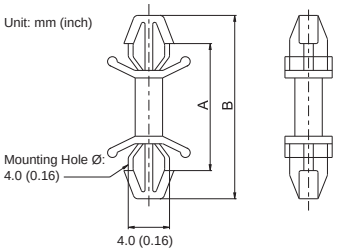
CBS-K Type

Part No.	Spacing Height (A) mm (inch)
CBS-5A	4.6±0.3 (0.18±0.01)
CBS-6A	6.2±0.3 (0.24±0.01)
CBS-9A	9.2±0.3 (0.36±0.01)
CBS-13A	12.6±0.3 (0.50±0.01)
CBS-16A	15.8±0.3 (0.62±0.01)
CBS-19A	19.1±0.3 (0.75±0.01)
CBS-22A	22.2±0.3 (0.87±0.01)
CBS-25A	25.3±0.3 (1.00±0.01)
CBS-29A	28.6±0.3 (1.13±0.01)
CBS-35A	33.3±0.3 (1.31±0.01)

Part No.	Spacing Height (A) mm (inch)
CBS-6K	6.3±0.3 (0.25±0.01)
CBS-8K	7.8±0.3 (0.31±0.01)
CBS-9K	9.3±0.3 (0.37±0.01)
CBS-12K	11.7±0.3 (0.46±0.01)
CBS-13K	12.6±0.3 (0.50±0.01)
CBS-16K	15.7±0.3 (0.62±0.01)
CBS-19K	19.1±0.3 (0.75±0.01)
CBS-22K	22.1±0.3 (0.87±0.01)
CBS-25K	25.1±0.3 (0.99±0.01)
CBS-29K	28.5±0.3 (1.12±0.01)
CBS-35K	35.0±0.3 (1.38±0.01)

DUAL LOCKING PCB SUPPORTS

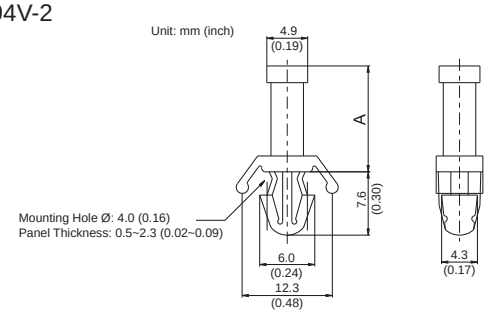
- Mini size saves space
- Installed by hand with no screws
- After board have support installed, the PCB support hold them firmly in place
- Snap together to stack more boards in limited space
- Material: Polyamide 6,6, UL94V-2
- Color: Natural



Part No.	Spacing Height (A) mm (inch)	Spacing Height (B) mm (inch)
MCBS-7W	7.2±0.3 (0.28±0.01)	12.7±0.3 (0.50±0.01)
MCBS-9W	9.3±0.3 (0.37±0.01)	14.5±0.3 (0.57±0.01)
MCBS-11W	11.3±0.3 (0.45±0.01)	18.2±0.3 (0.72±0.01)
MCBS-13W	13.3±0.3 (0.52±0.01)	20.2±0.3 (0.80±0.01)
MCBS-13WN	13.3±0.3 (0.52±0.01)	20.2±0.3 (0.80±0.01)

REST MOUNT PCB SUPPORTS

- Support and stabilize printed circuit boards
- Material: Polyamide 6,6, UL94V-2
- Color: Natural



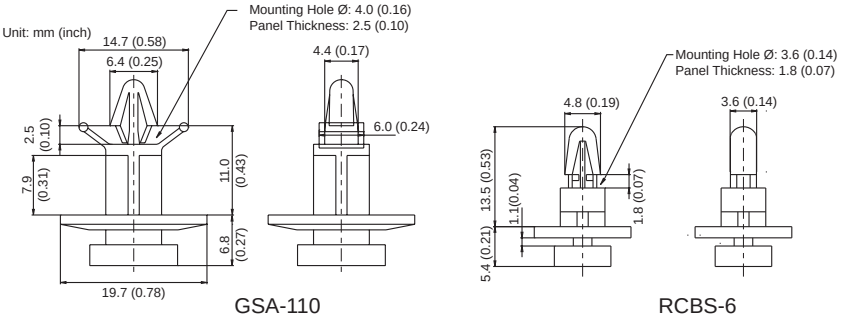
RoHS HF

Part No.	Spacing Height (A) mm (inch)
CBS-5P	4.7±0.3 (0.19±0.01)
CBS-6P	6.3±0.3 (0.25±0.01)
CBS-9P	9.3±0.3 (0.37±0.01)
CBS-13P	12.6±0.3 (0.50±0.01)
CBS-16P	15.9±0.3 (0.63±0.01)

Part No.	Spacing Height (A) mm (inch)
CBS-19P	19.0±0.3 (0.75±0.01)
CBS-22P	22.2±0.3 (0.87±0.01)
CBS-25P	25.2±0.3 (0.99±0.01)
CBS-29P	28.6±0.3 (1.13±0.01)
CBS-35P	33.4±0.3 (1.32±0.01)

PCB SUPPORTS

- Fix and separate printed circuit boards, easy to remove without tools
- Material: Polyamide 6,6, UL94V-2
- Color: Natural



GSA-110 RCBS-6

RoHS HF

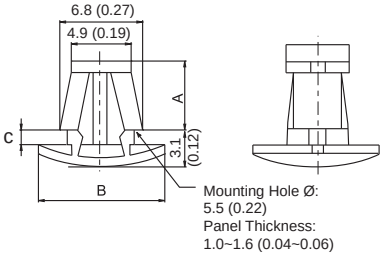
REVERSE LOCKING PCB SUPPORTS

- Hole or slots needed on board can support for heavily loaded printed circuit boards
- Minimum protrusion under chassis
- Material: Polyamide 6,6, UL94V-2
- Color: Natural

RoHS HF

Part No.	A mm (inch)	ø B mm (inch)	C mm (inch)
CBS-6RS	5.8 (0.23)	ø10.0 (0.39)	1.0 (0.04)
CBS-7RS	6.8 (0.27)	ø10.0 (0.39)	1.0 (0.04)
CBS-8RS	8.0 (0.32)	ø10.0 (0.39)	1.0 (0.04)
CBS-10RS	10.0 (0.39)	ø10.0 (0.39)	1.0 (0.04)
CBS-12RS	12.0 (0.47)	ø10.0 (0.39)	1.0 (0.04)
CBS-14RS	14.0 (0.55)	ø10.0 (0.39)	1.0 (0.04)
CBS-16RS	16.0 (0.63)	ø10.0 (0.39)	1.0 (0.04)
CBS-18RS	18.0 (0.71)	ø10.0 (0.39)	1.0 (0.04)

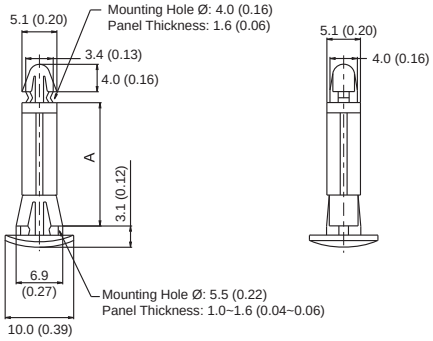
Unit: mm (inch)



REVERSE LOCKING PCB SUPPORTS

- Thin button head for minimum protrusion
- Sharp head can provide vibration and shake
- Insert the support through both holes from chassis underside
- Material: Polyamide 6,6, UL94V-2
- Color: Natural

Unit: mm (inch)



RoHS HF

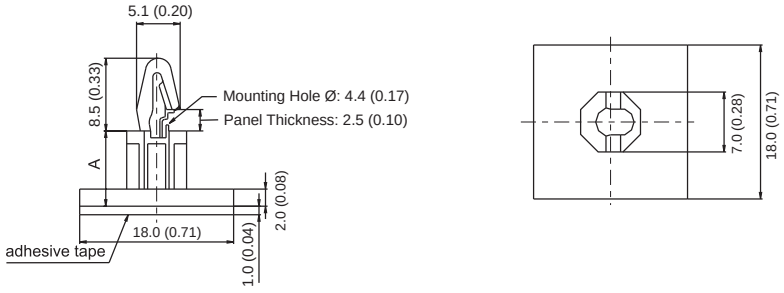
Part No.	Spacing Height (A) mm (inch)
CBS-6R	5.8±0.3 (0.23±0.01)
CBS-7R	6.8±0.3 (0.27±0.01)
CBS-8R	8.0±0.3 (0.32±0.01)
CBS-10R	10.0±0.3 (0.39±0.01)

Part No.	Spacing Height (A) mm (inch)
CBS-12R	12.0±0.3 (0.47±0.01)
CBS-14R	14.0±0.3 (0.55±0.01)
CBS-16R	16.0±0.3 (0.63±0.01)
CBS-18R	18.0±0.3 (0.71±0.01)

SELF ADHESIVE PCB SUPPORTS

- Easy mounting with adhesive tape
- For PCB of 1.6mm (0.063 inch) thick as well as 2mm (0.079 inch) thick
- Mounting hole diameter: ø4 +/- 0.1mm (0.157 inch)
- Material: Polyamide 6,6, UL94V-2
- Color: Natural

Unit: mm (inch)

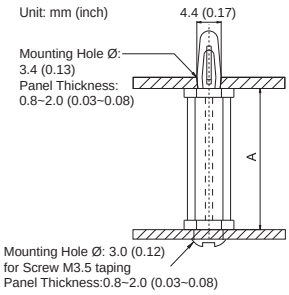


RoHS HF

Part No.	Spacing Height (A) mm (inch)
ACBS-6M	5.6±0.3 (0.22±0.01)
ACBS-9M	8.7±0.3 (0.34±0.01)
ACBS-12M	11.9±0.3 (0.47±0.01)

BOLT HEAD PCB SUPPORTS

- Support with minimum chassis protrusion serves for limited space or slim line applications
- Head locks in boards, can be released by hand
- Screw locks support; steady and firm
- Material: Polyamide 6,6, UL94V-2
- Color: Natural



RoHS HF

Part No.	Spacing Height (A) mm (inch)
CBS-6S	6.5±0.3 (0.26±0.01)
CBS-9S	9.6±0.3 (0.38±0.01)
CBS-13S	12.9±0.3 (0.51±0.01)
CBS-16S	16.0±0.3 (0.63±0.01)

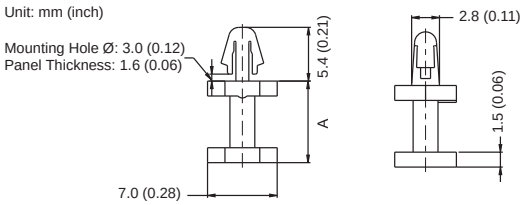
Part No.	Spacing Height (A) mm (inch)
CBS-19S	19.3±0.3 (0.76±0.01)
CBS-22S	22.4±0.3 (0.88±0.01)
CBS-25S	25.5±0.3 (1.00±0.01)
CBS-29S	29.0±0.3 (1.14±0.01)

MINI CARD SPACER SUPPORTS

- Install by hand no tools required
- Insert the support through only one hole of board
- Thin button head for minimum protrusion can save more space
- Material: Polyamide 6,6, UL94V-2
- Color: Natural

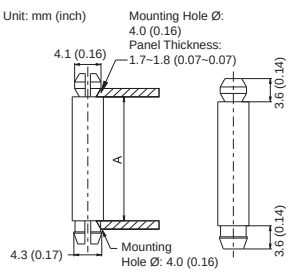
RoHS HF

Part No.	Spacing Height (A) mm (inch)
MCBS-4P	4.1±0.3 (0.16±0.01)
MCBS-6P	6.2±0.3 (0.24±0.01)
MCBS-8P	8.2±0.3 (0.32±0.01)
MCBS-10P	11.7±0.3 (0.46±0.01)
MCBS-14P	14.3±0.3 (0.56±0.01)



CIRCUIT BOARD BOLTS

- Easily installed by hand to lock securely
- Easily removed by pinching prong tips
- No tools is required
- Material: Polyamide 6,6, UL94V-2
- Color: Natural



RoHS HF

Part No.	Spacing Height (A) mm (inch)
HSP-2N	3.2±0.3 (0.13±0.01)
HSP-5N	4.8±0.3 (0.19±0.01)
HSP-6N	6.3±0.3 (0.25±0.01)
HSP-8N	7.9±0.3 (0.31±0.01)
HSP-9N	9.4±0.3 (0.37±0.01)

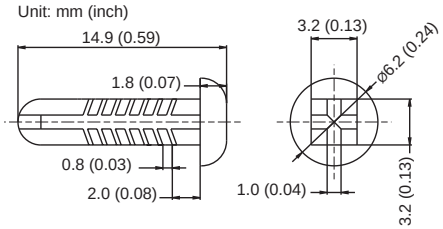
Part No.	Spacing Height (A) mm (inch)
HSP-11N	11.3±0.3 (0.45±0.01)
HSP-13N	12.7±0.3 (0.50±0.01)
HSP-16N	15.9±0.3 (0.63±0.01)
HSP-19N	19.1±0.3 (0.75±0.01)
HSP-22N	22.2±0.3 (0.87±0.01)

PLASTIC RIVETS

- For fixture on the circuit board, or electronic apparatus
- Light weight and excellent insulation
- Material: Polyamide 6,6, UL94V-2
- Color: Natural

RoHS HF

Part No.: R-1

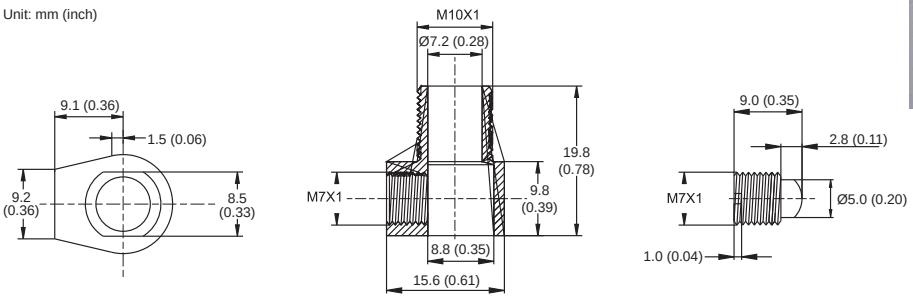


CORD GRIPS

- Application in lighting and electric equipment
- Protect and grip power cable in base hole
- Material: Polyamide 66+GF, UL94V-2
- Color: Black

RoHS

Part No: 5100/7

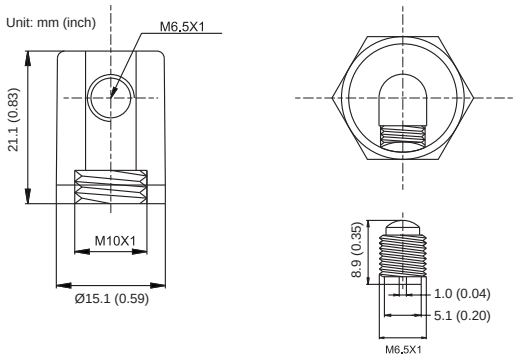


CORD GRIPS

- Application in lighting
- Protect and grip power cable in pipe end
- Material: Polyamide 6,6+GF, UL94V-2
- Color: White, black

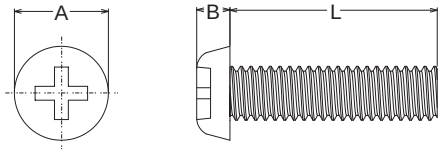
RoHS

Part No: FP-7A



PAN HEAD PHILLIPS SLOTTED SCREWS

- Provide excellent chemical resistance
- Great resistant to wear, high strength with light weight
- Material: Polyamide 6,6, UL94HB
- Color: Natural

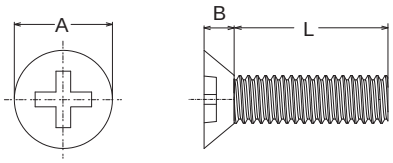


RoHS HF

Part No.	Thread	A mm (inch)	B mm (inch)	L mm (inch)
NS-M3-6PP	M3	5.5 (0.22)	2.0 (0.08)	6.0 (0.24)
NS-M3-8PP		5.5 (0.22)	2.0 (0.08)	8.0 (0.31)
NS-M3-10PP		5.5 (0.22)	2.0 (0.08)	10.0 (0.39)
NS-M3-12PP		5.5 (0.22)	2.0 (0.08)	12.0 (0.47)
NS-M3-16PP		5.5 (0.22)	2.0 (0.08)	16.0 (0.63)
NS-M3-20PP		5.5 (0.22)	2.0 (0.08)	20.0 (0.79)
NS-M4-6PP	M4	7.0 (0.28)	3.0 (0.12)	6.0 (0.24)
NS-M4-8PP		7.0 (0.28)	3.0 (0.12)	8.0 (0.31)
NS-M4-10PP		7.0 (0.28)	3.0 (0.12)	10.0 (0.39)
NS-M4-12PP		7.0 (0.28)	3.0 (0.12)	12.0 (0.47)
NS-M4-16PP		7.0 (0.28)	3.0 (0.12)	16.0 (0.63)
NS-M4-20PP		7.0 (0.28)	3.0 (0.12)	20.0 (0.79)
NS-M5-6PP	M5	9.0 (0.35)	3.0 (0.12)	6.0 (0.24)
NS-M5-8PP		9.0 (0.35)	3.0 (0.12)	8.0 (0.31)
NS-M5-10PP		9.0 (0.35)	3.0 (0.12)	10.0 (0.39)
NS-M5-12PP		9.0 (0.35)	3.0 (0.12)	12.0 (0.47)
NS-M5-16PP		9.0 (0.35)	3.0 (0.12)	16.0 (0.63)
NS-M5-20PP		9.0 (0.35)	3.0 (0.12)	20.0 (0.79)
NS-M6-10PP	M6	10.0 (0.39)	3.5 (0.14)	10.0 (0.39)
NS-M6-12PP		10.0 (0.39)	3.5 (0.14)	12.0 (0.47)
NS-M6-16PP		10.0 (0.39)	3.5 (0.14)	16.0 (0.63)
NS-M6-20PP		10.0 (0.39)	3.5 (0.14)	20.0 (0.79)
NS-M8-10PP	M8	14.0 (0.55)	5.4 (0.21)	10.0 (0.39)
NS-M8-12PP		14.0 (0.55)	5.4 (0.21)	12.0 (0.47)
NS-M8-16PP		14.0 (0.55)	5.4 (0.21)	16.0 (0.63)
NS-M8-20PP		14.0 (0.55)	5.4 (0.21)	20.0 (0.79)

FLAT HEAD PHILLIPS SLOTTED SCREWS

- Provide excellent chemical resistance
- Great resistant to wear, high strength with light weight
- Material: Polyamide 6,6, UL94HB
- Color: Natural

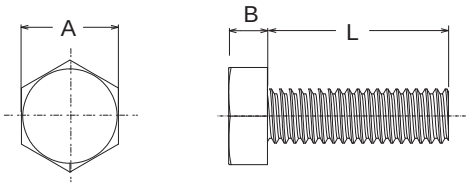


RoHS HF

Part No.	Thread	A mm (inch)	B mm (inch)	L mm (inch)
NS-M3-6FP	M3	5.6 (0.22)	2.0 (0.08)	6.0 (0.24)
NS-M3-8FP		5.6 (0.22)	2.0 (0.08)	8.0 (0.31)
NS-M3-10FP		5.6 (0.22)	2.0 (0.08)	10.0 (0.39)
NS-M3-12FP		5.6 (0.22)	2.0 (0.08)	12.0 (0.47)
NS-M3-16FP		5.6 (0.22)	2.0 (0.08)	16.0 (0.63)
NS-M3-20FP		5.6 (0.22)	2.0 (0.08)	20.0 (0.79)
NS-M4-6FP	M4	7.5 (0.30)	2.5 (0.10)	6.0 (0.24)
NS-M4-8FP		7.5 (0.30)	2.5 (0.10)	8.0 (0.31)
NS-M4-10FP		7.5 (0.30)	2.5 (0.10)	10.0 (0.39)
NS-M4-12FP		7.5 (0.30)	2.5 (0.10)	12.0 (0.47)
NS-M4-16FP		7.5 (0.30)	2.5 (0.10)	16.0 (0.63)
NS-M4-20FP		7.5 (0.30)	2.5 (0.10)	20.0 (0.79)
NS-M5-6FP	M5	9.2 (0.36)	2.5 (0.10)	6.0 (0.24)
NS-M5-8FP		9.2 (0.36)	2.5 (0.10)	8.0 (0.31)
NS-M5-10FP		9.2 (0.36)	2.5 (0.10)	10.0 (0.39)
NS-M5-12FP		9.2 (0.36)	2.5 (0.10)	12.0 (0.47)
NS-M5-16FP		9.2 (0.36)	2.5 (0.10)	16.0 (0.63)
NS-M5-20FP		9.2 (0.36)	2.5 (0.10)	20.0 (0.79)
NS-M6-10FP	M6	10.8 (0.43)	3.3 (0.13)	10.0 (0.39)
NS-M6-12FP		10.8 (0.43)	3.3 (0.13)	12.0 (0.47)
NS-M6-16FP		10.8 (0.43)	3.3 (0.13)	16.0 (0.63)
NS-M6-20FP		10.8 (0.43)	3.3 (0.13)	20.0 (0.79)
NS-M8-10FP	M8	16.0 (0.63)	4.7 (0.19)	10.0 (0.39)
NS-M8-12FP		16.0 (0.63)	4.7 (0.19)	12.0 (0.47)
NS-M8-16FP		16.0 (0.63)	4.7 (0.19)	16.0 (0.63)
NS-M8-20FP		16.0 (0.63)	4.7 (0.19)	20.0 (0.79)

HEX HEAD SCREWS

- Provide excellent chemical resistance
- Great resistant to wear, high strength with light weight
- Material: Polyamide 6,6, UL94HB
- Color: Natural

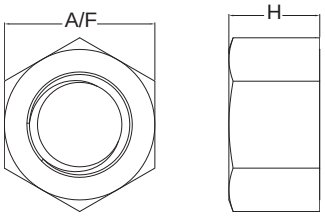


RoHS HF

Part No.	Thread	A mm (inch)	B mm (inch)	L mm (inch)
NS-M3-6H	M3	5.5 (0.22)	2.0 (0.08)	6.0 (0.24)
NS-M3-8H		5.5 (0.22)	2.0 (0.08)	8.0 (0.31)
NS-M3-10H		5.5 (0.22)	2.0 (0.08)	10.0 (0.39)
NS-M3-12H		5.5 (0.22)	2.0 (0.08)	12.0 (0.47)
NS-M3-16H		5.5 (0.22)	2.0 (0.08)	16.0 (0.63)
NS-M3-20H		5.5 (0.22)	2.0 (0.08)	20.0 (0.79)
NS-M4-6H	M4	7.0 (0.28)	2.8 (0.11)	6.0 (0.24)
NS-M4-8H		7.0 (0.28)	2.8 (0.11)	8.0 (0.31)
NS-M4-10H		7.0 (0.28)	2.8 (0.11)	10.0 (0.39)
NS-M4-12H		7.0 (0.28)	2.8 (0.11)	12.0 (0.47)
NS-M4-16H		7.0 (0.28)	2.8 (0.11)	16.0 (0.63)
NS-M4-20H		7.0 (0.28)	2.8 (0.11)	20.0 (0.79)
NS-M5-6H	M5	8.0 (0.31)	3.5 (0.14)	6.0 (0.24)
NS-M5-8H		8.0 (0.31)	3.5 (0.14)	8.0 (0.31)
NS-M5-10H		8.0 (0.31)	3.5 (0.14)	10.0 (0.39)
NS-M5-12H		8.0 (0.31)	3.5 (0.14)	12.0 (0.47)
NS-M5-16H		8.0 (0.31)	3.5 (0.14)	16.0 (0.63)
NS-M5-20H		8.0 (0.31)	3.5 (0.14)	20.0 (0.79)
NS-M6-10H	M6	10.0 (0.39)	4.0 (0.16)	10.0 (0.39)
NS-M6-12H		10.0 (0.39)	4.0 (0.16)	12.0 (0.47)
NS-M6-16H		10.0 (0.39)	4.0 (0.16)	16.0 (0.63)
NS-M6-20H		10.0 (0.39)	4.0 (0.16)	20.0 (0.79)
NS-M8-10H	M8	13.0 (0.51)	5.3 (0.21)	10.0 (0.39)
NS-M8-12H	M8	13.0 (0.51)	5.3 (0.21)	12.0 (0.47)
NS-M8-16H		13.0 (0.51)	5.3 (0.21)	16.0 (0.63)
NS-M8-20H		13.0 (0.51)	5.3 (0.21)	20.0 (0.79)
NS-M10-16H	M10	16.0 (0.63)	6.4 (0.25)	16.0 (0.63)
NS-M10-20H		16.0 (0.63)	6.4 (0.25)	20.0 (0.79)
NS-M10-30H		16.0 (0.63)	6.4 (0.25)	30.0 (1.18)
NS-M10-40H		16.0 (0.63)	6.4 (0.25)	40.0 (1.57)
NS-M12-16H	M12	18.0 (0.71)	7.5 (0.30)	16.0 (0.63)
NS-M12-20H		18.0 (0.71)	7.5 (0.30)	20.0 (0.79)
NS-M12-30H		18.0 (0.71)	7.5 (0.30)	30.0 (1.18)
NS-M12-40H		18.0 (0.71)	7.5 (0.30)	40.0 (1.57)
NS-M14-20H	M14	21.0 (0.83)	8.8 (0.35)	20.0 (0.79)
NS-M14-30H		21.0 (0.83)	8.8 (0.35)	30.0 (1.18)
NS-M14-40H		21.0 (0.83)	8.8 (0.35)	40.0 (1.57)
NS-M16-40H	M16	24.0 (0.94)	10.0 (0.39)	40.0 (1.57)
NS-M16-50H		24.0 (0.94)	10.0 (0.39)	50.0 (1.97)
NS-M16-60H		24.0 (0.94)	10.0 (0.39)	60.0 (2.36)
NS-M18-40H	M18	27.0 (1.06)	11.5 (0.45)	40.0 (1.57)
NS-M18-50H		27.0 (1.06)	11.5 (0.45)	50.0 (1.97)
NS-M18-60H		27.0 (1.06)	11.5 (0.45)	60.0 (2.36)
NS-M20-40H	M20	30.0 (1.18)	12.5 (0.49)	40.0 (1.57)
NS-M20-50H		30.0 (1.18)	12.5 (0.49)	50.0 (1.97)
NS-M20-60H		30.0 (1.18)	12.5 (0.49)	60.0 (2.36)

HEX NUTS

- Provide excellent chemical resistance
- Great resistant to wear, high strength with light weight
- Material: Polyamide 6,6, UL94HB
- Color: Natural



RoHS HF

Part No.	Thread	Accross Flats (A/F) mm (inch)	H mm (inch)
NU-M3	M3	5.5 (0.22)	2.4 (0.09)
NU-M4	M4	7.0 (0.28)	3.2 (0.13)
NU-M5	M5	8.0 (0.31)	4.7 (0.19)
NU-M6	M6	10.0 (0.39)	5.2 (0.20)
NU-M8	M8	13.0 (0.51)	6.8 (0.27)
NU-M10	M10	16.0 (0.63)	8.4 (0.33)
NU-M12	M12	18.0 (0.71)	10.8 (0.43)
NU-M14	M14	21.0 (0.83)	12.8 (0.50)
NU-M16	M16	24.0 (0.94)	14.8 (0.58)
NU-M18	M18	27.0 (1.06)	15.8 (0.62)
NU-M20	M20	30.0 (1.18)	18.0 (0.71)

COMBO PACKS

*** Available in different combinations**

1

1000 pcs/tube		
GT-100M	200 pcs	Natural Color
GT-100M	200 pcs	Black Color
GT-100M	300 pcs	3 color(Red, Green, Yellow) @100pcs
GT-200ST	200 pcs	Natural Color
GT-280ST	100 pcs	Natural Color
20 SETS/CTN		

850 pcs/tube		
GT-100M	100 pcs	Natural Color
GT-100M	400 pcs	Red, Blue, Yellow, Green @100 pcs
GT-200ST	300 pcs	Natural Color
GT-280ST	50 pcs	Natural Color
20 SETS/CTN		

1000 pcs/tube		
GT-100M	200 pcs	Natural Color
GT-100M	400 pcs	Red, Blue, Yellow, Green @100pcs
GT-200ST	350 pcs	Natural Color
GT-280ST	50 pcs	Natural Color
20 SETS/CTN		

650 pcs/tube		
GT-100M	100 pcs	Natural Color
GT-100M	200 pcs	Red, Blue, Yellow, Green @50 pcs
GT-200ST	300 pcs	Natural Color
GT-280ST	50 pcs	Natural Color
20 SETS/CTN		

COMBO PACKS

2

1201 pcs/tube		
GT-100M	200 pcs	Natural Color
GT-100M	200 pcs	Red, Blue, Yellow, Green @ 50 pcs
GT-200M	400 pcs	Natural Color
GT-200I	200 pcs	Natural Color
GT-300M	200 pcs	Natural Color
GIT-701	1 pcs	Orange+Black
20 SETS/CTN		

3

300 pcs/tube		
GT-100M	50 pcs	Natural Color
GT-100M	50 pcs	Black Color
GT-140I	100 pcs	Natural Color
GT-120ST	50 pcs	Red Color
GT-120ST	50 pcs	Blue Color

4

650pcs double blister		
GT-100M	200 pcs	Natural Color
GT-100M	100 pcs	Black Color
GT-200ST	100 pcs	Natural Color
GT-280ST	100 pcs	Natural Color
GT-100M	20 pcs	Blue Color
GT-100M	20 pcs	Neon Orange Color
GT-100M	20 pcs	Yellow Color
GT-100M	20 pcs	Neon Green Color
GT-100M	20 pcs	Neon Pink Color
GT-200ST	10 pcs	Red Color
GT-200ST	10 pcs	Blue Color
GT-200ST	10 pcs	Purple Color
GT-200ST	10 pcs	Yellow Color
GT-200ST	10 pcs	Black Color

5

Cable Clip /tube	
GF-2.0	300 pcs

6

Cable Clip /tube	
GC-9	80 pcs

7

Cable Tie Mounts/ bag	
HW-3A	50 pcs

8

Stainless Steel Cable Ties /bag
Available in different quantity / size

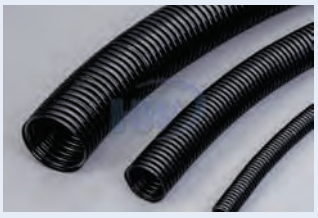
9

Cable Ties /bag		
GT-150I	30 pcs	Natural Color

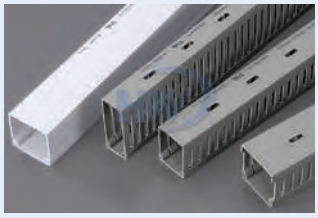
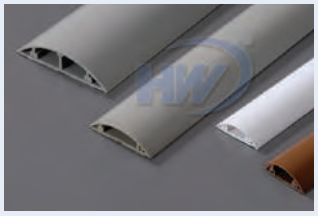
10

Cable Ties 150pcs/bag		
GT-100M	50 pcs	Natural Color
GT-120ST	50 pcs	Natural Color
GT-200ST	50 pcs	Natural Color

CABLE PROTECTION





INTRODUCTION OF HUA WEI'S WIRING DUCTS

Hua Wei's cable protection are applied to protect cables and wires from pressure, corrosion, and abrasion and to offer advantages of insulation, neat and keeping in order.

The Length Is Cut Depending on Users' Need

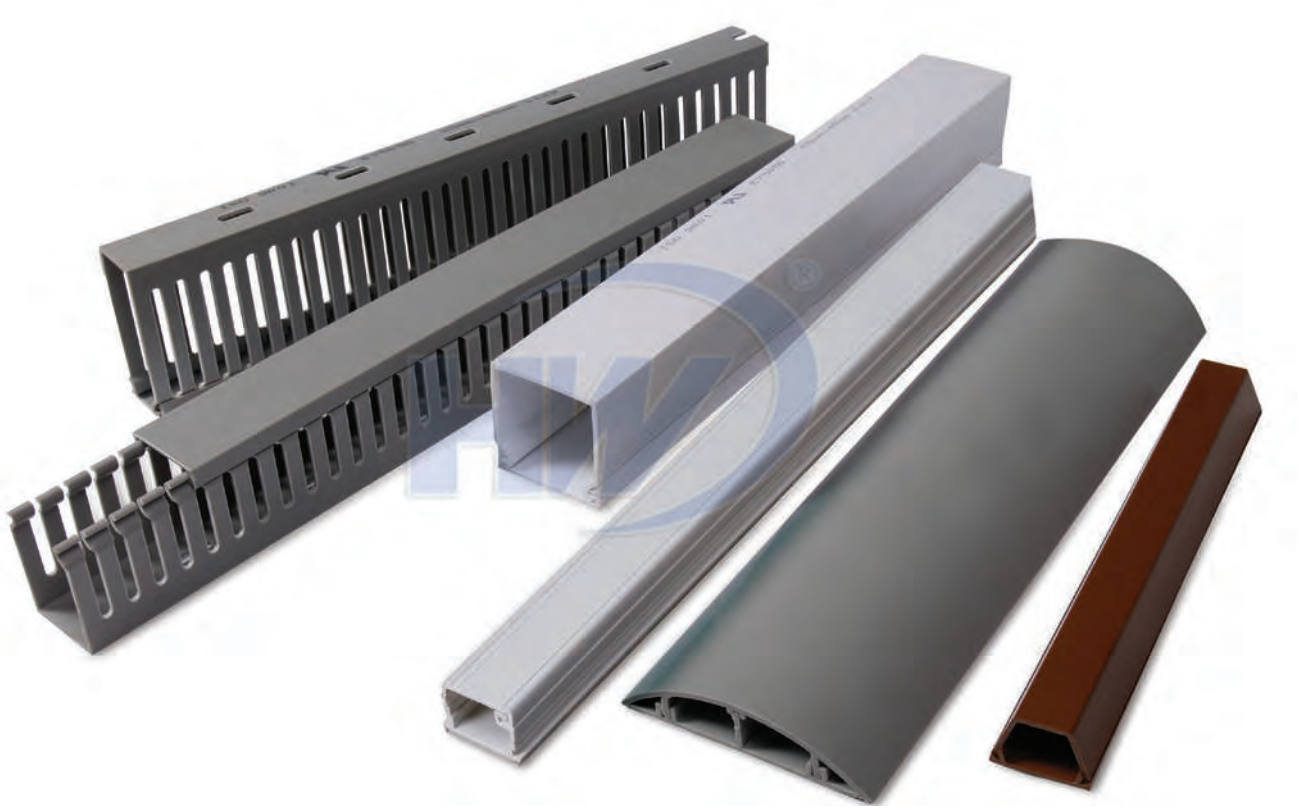
Hua Wei's wiring ducts can cut the length with scissors/ tools. Button Tubes and Hoop & Loop Tubes can easily unwrapped and fold to storage. Wrapping Bands is very common accessory applying to arrangement of the cables. If needed, it is convenient for the wire to pull out from spiral to connect to other place. These cable protections apply widely from industrial control box, tele-communication cabinets, wire cable arrangement of factory office, and to household.

Hua Wei has wide range of wire ducts, which goes with UL certificate, are well known in the industry. The length can be cut by proper tools and applied by users' need. Wire ducts are widely applied to industrial control box, tele-communication cabinets, wire cable arrangement of factory/office.

Full Range of Wiring Ducts for Electronic and Internal Decoration

Hua Wei's wiring ducts carry with UL certificate and are specially designed for applying to control panel. The features combine with high quality, rigid sidewall section, compact cover design, and variable sizes fully comply with global electronic regulation and the best choice for all kinds of control panels.

Hua Wei has complete series internal decoration raceway, includes Round type wiring ducts applied on floors; Telephone wiring ducts for protection of telephone line and internet cables. One piece raceway and Fittings are perfect solution for office furniture.



MATERIAL & APPLICATION TABLE

Product Name	Button Tubes	Hook & Loop Tubes	Wrapping Bands
Type	FBT	FMT	GST
Page	B-5	B-5	B-6
Material	Refractory a meshes mezzanine PVC. Button: POM	Refractory a meshes mezzanine PVC. Velcro: Polyamide	PE
Operating Temperature			
Max.	105ºC (221ºF)	105ºC (221ºF)	80ºC (176ºF)
Min.	−25ºC (−13ºF)	−25ºC (−13ºF)	-40ºC (-40ºF)
Resistant Properties			
UV light/ozone	○	○	△
Oils and greases	○	○	◎
Solvents	○	○	○
Petrol	○	○	○
Moisture	○	○	
Flammability	UL94VTM-0	UL94VTM-0	--
Possible Applications			
Switch cabinets	★	★	★
Machinery and equipment manufacture	★	★	★
Rail-borne vehicles	★	★	★
Petro/chemical industry	★	★	★
Offshore-industry	☆	☆	☆
Telecommunications	★	★	★
Shipbuilding	☆	☆	★
Harnessmaker	★	★	★
Public building	★	★	☆
Automobile industry	★	★	☆
Household applicances	★	★	☆
Sample Applications			
Bundling of cables and wires	★	★	★
Wiring in switchboards	★	★	★
Protection of wires	★	★	★
Chafing protection for cables	★	★	☆
Plastic housings			

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

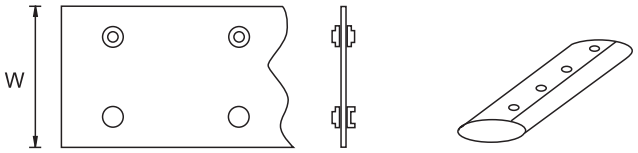
MATERIAL & APPLICATION TABLE

Product Name	Slotted/ Solid Wall Wiring Ducts	Round Type Wiring Ducts	Telephone Wiring Ducts	One Piece Raceway
Type	GW	GRD	GD	GU
Page	B-7	B-8	B-8	B-9
Material	PVC	PVC	PVC	PVC
Operating Temperature				
Max.	50ºC (122ºF)	50ºC (122ºF)	50ºC (122ºF)	50ºC (122ºF)
Min.	−25ºC (−13ºF)	−25ºC (−13ºF)	−25ºC (−13ºF)	−25ºC (−13ºF)
Resistant Properties				
UV light/ozone	○	○	○	○
Oils and greases	○	○	○	○
Solvents	○	○	○	○
Petrol	○	○	○	○
Moisture	○	○	○	○
Flammability	UL94V-0	UL94V-0	UL94V-0	UL94V-0
Possible Applications				
Switch cabinets	★			
Machinery and equipment manufacture	★			
Rail-borne vehicles	★			
Petro/chemical industry	★			
Offshore-industry	★			
Telecommunications	★	★	★	★
Shipbuilding	★	★	★	★
Harnessmaker				
Public building	★	★	★	★
Automobile industry				
Household applicances	★	★	★	★
Sample Applications				
Bundling of cables and wires	★	★	★	★
Wiring in switchboards	★	★	★	★
Protection of wires	★	★	★	★
Chafing protection for cables	★	★	★	★
Plastic housings				
Internal decoration	☆	★	★	★

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

BUTTON TUBES

- Good for cable wrapping and protection
- Easy to wrap and re-usable
- Thickness : 0.35mm
- Material: Refractory a meshes mezzanine PVC
  Button material : POM
- Color: Black, grey



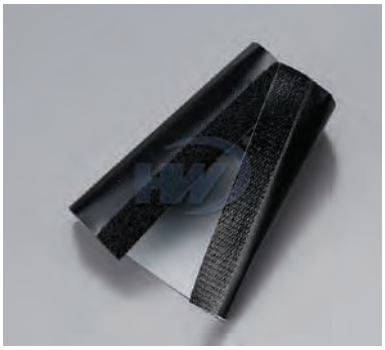
RoHS

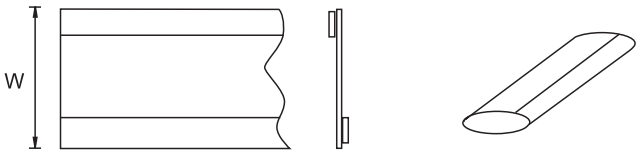
Part No.	Max.Bundle ø mm (inch)	Band Width (W) mm (inch)
FBT-10	10.0 (0.39)	55.0 (2.17)
FBT-15	15.0 (0.59)	75.0 (2.95)
FBT-20	20.0 (0.79)	90.0 (3.54)
FBT-25	25.0 (0.98)	100.0 (3.94)
FBT-30	30.0 (1.18)	115.0 (4.53)

Part No.	Max.Bundle ø mm (inch)	Band Width (W) mm (inch)
FBT-40	40.0 (1.57)	146.0 (5.75)
FBT-50	50.0 (1.97)	175.0 (6.89)
FBT-70	70.0 (2.76)	241.0 (9.49)
FBT-100	100.0 (3.94)	333.0 (13.11)

HOOK & LOOP TUBES

- Good for cable wrapping and protection
- Easy to wrap and re-usable
- Material: Refractory a meshes mezzanine PVC
  Velcro: Polyamide
- Color: Black, grey





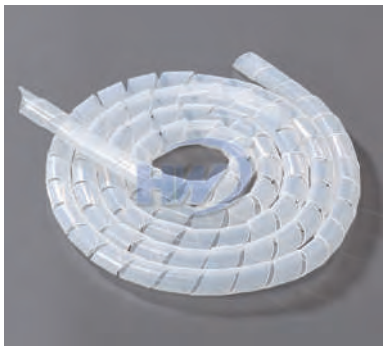
RoHS

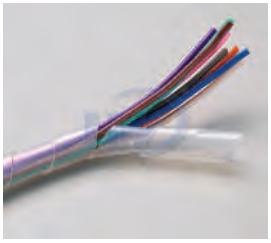
Part No.	Max.Bundle ø mm (inch)	Band Width (W) mm (inch)
FMT-15	15.0 (0.59)	75.0 (2.95)
FMT-20	20.0 (0.79)	90.0 (3.54)
FMT-25	25.0 (0.98)	107.0 (4.21)
FMT-30	30.0 (1.18)	123.0 (4.84)

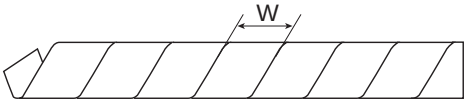
Part No.	Max.Bundle ø mm (inch)	Band Width (W) mm (inch)
FMT-40	40.0 (1.57)	154.0 (6.06)
FMT-50	50.0 (1.97)	185.0 (7.28)
FMT-70	70.0 (2.76)	248.0 (9.76)
FMT-100	100.0 (3.94)	342.0 (13.46)

WRAPPING BANDS

- Used for organizing and protecting cables and hoses
- The spiral structure allows cables to branch out at any point and in any direction
- Material: PE
- Color: Natural, black





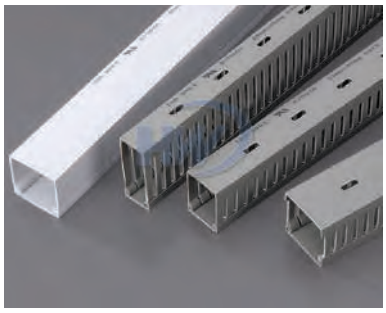


RoHS HF

Part No.	In-Diameter mm (inch)	Out-Diameter mm (inch)	W mm (inch)	Wrapping Range mm (inch)
GST-4	5.0 (0.20)	6.0 (0.24)	7.0 (0.28)	4.0~50.0 (0.16~1.97)
GST-6	7.0 (0.28)	8.0 (0.31)	10.8 (0.43)	6.0~60.0 (0.24~2.36)
GST-8	8.5 (0.33)	10.0 (0.39)	11.4 (0.45)	7.5~60.0 (0.30~2.36)
GST-9	10.2 (0.40)	12.0 (0.47)	13.9 (0.55)	9.0~65.0 (0.35~2.56)
GST-12	13.0 (0.51)	15.0 (0.59)	15.0 (0.59)	12.0~70.0 (0.47~2.76)
GST-15	16.4 (0.65)	19.0 (0.75)	18.2 (0.72)	15.0~100.0 (0.59~3.94)
GST-20	21.0 (0.83)	24.0 (0.94)	19.6 (0.77)	20.0~130.0 (0.79~5.12)

SLOTTED/ SOLID WALL WIRING DUCTS

- Easy and firm snap-on assembly, smooth joining for a better finish
- Solid wiring ducts without hole punctures are also available
- Manufactured with high quality rigid PVC with good insulation, flameretardant and heat resistant
- Material: PVC
- Length: 1.7M & 2.0M
- Color: White, grey, black, beige, blue

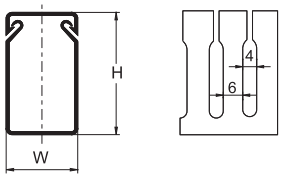


Part No.	Slot Hole Size			Width (W) mm (inch)	Height (H) mm (inch)	Wiring Volume	Mounting Hole Dimension
GW-1525	S	-	L	15.0 (0.59)	25.0 (0.98)	5-12 PCS	Small
GW-2020	S	-	L	20.0 (0.79)	20.0 (0.79)	5-12 PCS	Small
GW-2525	S	-	L	25.0 (0.98)	25.0 (0.98)	10-25 PCS	Small
GW-2540	S	-	L	25.0 (0.98)	40.0 (1.57)	20-25 PCS	Small
GW-2545	S	M	L	25.0 (0.98)	45.0 (1.77)	20-25 PCS	Small
GW-2565	S	-	L	25.0 (0.98)	65.0 (2.56)	40-45 PCS	Small
GW-3333	S	M	L	33.0 (1.30)	33.0 (1.30)	25-54 PCS	Small
GW-3345	S	-	L	33.0 (1.30)	45.0 (1.77)	40-55 PCS	Small
GW-3365	S	-	L	33.0 (1.30)	65.0 (2.56)	60-75 PCS	Small
GW-33100	S	-	L	33.0 (1.30)	100.0 (3.94)	180-200 PCS	Small
GW-4040	S	-	L	40.0 (1.57)	40.0 (1.57)	60-70 PCS	Small
GW-4060	S	-	L	40.0 (1.57)	60.0 (2.36)	100-115 PCS	Small
GW-4080	S	-	L	40.0 (1.57)	80.0 (3.15)	120-135 PCS	Small
GW-4545	S	M	L	45.0 (1.77)	45.0 (1.77)	60-70 PCS	Small
GW-4565	S	M	L	45.0 (1.77)	65.0 (2.56)	110-120 PCS	Small
GW-5050	S	M	L	50.0 (1.97)	50.0 (1.97)	80-90 PCS	Small
GW-50100	S	-	L	50.0 (1.97)	100.0 (3.94)	210-260 PCS	Small
GW-6040	S	-	L	60.0 (2.36)	40.0 (1.57)	100-115 PCS	Small
GW-6060	S	-	L	60.0 (2.36)	60.0 (2.36)	120-135 PCS	Small
GW-6080	S	-	L	60.0 (2.36)	80.0 (3.15)	180-210 PCS	Small
GW-6545	S	-	L	65.0 (2.56)	45.0 (1.77)	110-120 PCS	Small
GW-6565	S	-	L	65.0 (2.56)	65.0 (2.56)	110-120 PCS	Small
GW-70100	-	-	L	70.0 (2.76)	100.0 (3.94)	250-300 PCS	Large
GW-7264	S	-	L	72.0 (2.83)	64.0 (2.52)	200-220 PCS	Large
GW-8040	S	-	L	80.0 (3.15)	40.0 (1.57)	120-135 PCS	Large
GW-8060	S	-	L	80.0 (3.15)	60.0 (2.36)	180-210 PCS	Large
GW-8080	-	-	L	80.0 (3.15)	80.0 (3.15)	240-290 PCS	Large
GW-10060	S	-	L	100.0 (3.94)	60.0 (2.36)	240-290 PCS	Large
* GW-10080	S	-	L	100.0 (3.94)	80.0 (3.15)	260-310 PCS	Large
GW-100100	-	-	L	100.0 (3.94)	100.0 (3.94)	300-400 PCS	Large
GW-15075	-	-	L	150.0 (5.91)	75.0 (2.95)	335-500 PCS	Large

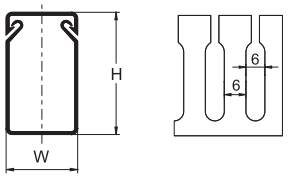
* Not included in UL E75050 accreditation. ** Wiring volume is base on wires of 2.0 sq. mm.

Slot Hole Size

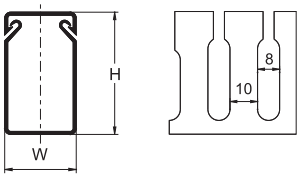
S=4mm



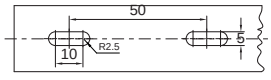
M=6mm



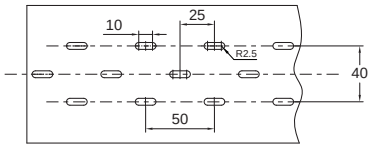
L=8mm



Mounting Hole Dimension
Small Duct

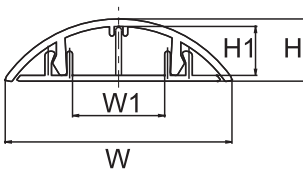


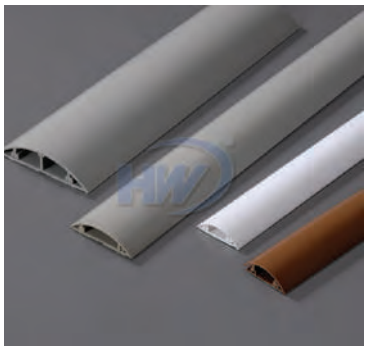
Large Duct



ROUND TYPE WIRING DUCTS

- Backed with high quality double sided tape for permanent fixture
- Good for floor wiring to facilitate trolley pass and to avoid tripping, especially in public places, like shopping malls, hospitals, and stations
- Material: PVC
- Length: 1M
- Color: All colors are available



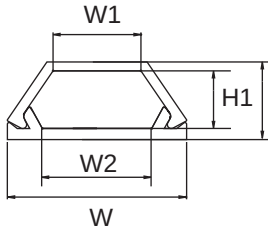


RoHS

Part No.	W mm (inch)	W1 mm (inch)	H mm (inch)	H1 mm (inch)
GRD-20	20.0 (0.79)	8.0 (0.31)	6.0 (0.24)	4.0 (0.16)
GRD-30	30.0 (1.18)	11.0 (0.43)	8.0 (0.31)	6.0 (0.24)
GRD-40	39.0 (1.54)	16.0 (0.63)	10.0 (0.39)	8.0 (0.31)
GRD-50	49.0 (1.93)	24.0 (0.94)	12.0 (0.47)	9.0 (0.35)
GRD-60	58.0 (2.28)	30.0 (1.18)	12.0 (0.47)	9.0 (0.35)
GRD-70	68.0 (2.68)	39.0 (1.54)	14.0 (0.55)	11.0 (0.43)
GRD-90	90.0 (3.54)	45.0 (1.77)	19.0 (0.75)	15.0 (0.59)
GRD-120	120.0 (4.72)	70.0 (2.76)	25.0 (0.98)	21.0 (0.83)

TELEPHONE WIRING DUCTS

- Smooth corners and edges that will not abrade wiring or irritate hands
- Integrated nonskid liners and unique cover designs insure the duct cover will not slide once installed or during vibration
- Specially formulated lead-free PVC material meet the flame retardant requirements
- Material: PVC
- Length: 1M
- Color: All colors are available



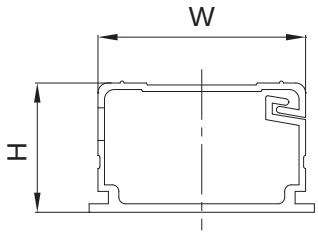
RoHS

Part No.	W mm (inch)	W1 mm (inch)	W2 mm (inch)	H mm (inch)	H1 mm (inch)	Wire to be Contained
GD-1	15.5 (0.61)	10.0 (0.39)	9.0 (0.35)	7.7 (0.30)	5.0 (0.20)	1 PCS
GD-2	20.0 (0.79)	13.0 (0.51)	11.0 (0.43)	9.5 (0.37)	7.0 (0.28)	2-3 PCS
GD-3	22.3 (0.88)	12.0 (0.47)	14.0 (0.55)	12.9 (0.51)	10.0 (0.39)	3-4 PCS
GD-4	26.2 (1.03)	13.0 (0.51)	17.0 (0.67)	14.7 (0.58)	12.0 (0.47)	4-7 PCS
GD-5	28.0 (1.10)	13.0 (0.51)	19.0 (0.75)	19.4 (0.76)	17.0 (0.67)	7-9 PCS
GD-6	30.2 (1.19)	15.0 (0.59)	21.0 (0.83)	19.7 (0.78)	17.0 (0.67)	10-15 PCS
GD-8	50.0 (1.97)	28.0 (1.10)	35.0 (1.38)	19.5 (0.77)	17.0 (0.67)	30-40 PCS
GD-9	12.4 (0.49)	7.0 (0.28)	6.0 (0.24)	7.3 (0.29)	5.0 (0.20)	1 PCS
GD-10	15.2 (0.60)	8.0 (0.31)	8.0 (0.31)	10.1 (0.40)	8.0 (0.31)	2 PCS
GD-11	25.2 (0.99)	12.0 (0.47)	17.0 (0.67)	12.3 (0.48)	9.6 (0.38)	4-7 PCS
GD-12	25.2 (0.99)	10.0 (0.39)	17.0 (0.67)	16.1 (0.63)	13.6 (0.54)	7-9 PCS

* Wiring volume is based on telephone lines of 0.8 mm in diameter.

ONE PIECE RACEWAY

- One-piece duct and cover design provides quicker and more convenient routing
- To be applied with various special fittings, hiding wiring and cables routing in business space, office, and home, ideal for internal decoration and routing safety
- Design with adhesive backing, provides easy and faster installation
- The raceway is made from RoHS compliant PVC, offers excellent insulation as well as non-toxic for indoor use
- Flame retardant material be applied, conforms to UL94V-0 class, high temperature resistant up to 50°C
- Paintable surface perfectly matches with internal decoration
- Unique self-locking latch design ensures closure tightly without height difference
- Precise forming hinge endures 600,000 times of opening without cracking
- Material: PVC
- Color: White, ivory



HF

Part No.	W mm (inch)	H mm (inch)	Wiring Volume	Length M (ft.)
GU-2015	20.0 (0.79)	15.0 (0.59)	CAT 5e *6 CAT 6 *4 CAT 6A FTP *2 25-Pair *1 6 Fiber *4 1 Fiber *16 Coax *3	1.8 (6.0)
GU-3520	35.0 (1.38)	20.0 (0.79)	CAT 5e *15 CAT 6 *10 CAT 6A FTP *6 25-Pair *4 6 Fiber *9 1 Fiber *39 Coax *7	1.8 (6.0)
GU-4525	45.0 (1.77)	25.0 (0.98)	CAT 5e *29 CAT 6 *19 CAT 6A FTP *11 25-Pair *7 6 Fiber *17 1 Fiber *72 Coax *14	1.8 (6.0)

RACEWAY FITTINGS

- Material: FRHIPS
- Color: White, ivory

Type		Part No.	Suitable for Raceway
Flat Elbow		GUC-20LC	GU-2015
		GUC-35LC	GU-3520
		GUC-45LC	GU-4525
Flat Elbow +Base		GUC-20LA	GU-2015
		GUC-35LA	GU-3520
		GUC-45LA	GU-4525
Tee		GUC-20TC	GU-2015
		GUC-35TC	GU-3520
		GUC-45TC	GU-4525
Tee + Base		GUC-20TA	GU-2015
		GUC-35TA	GU-3520
		GUC-45TA	GU-4525
Outside Corner Cover		GUC-20OC	GU-2015
		GUC-35OC	GU-3520
		GUC-45OC	GU-4525

Type		Part No.	Suitable for Raceway
Outside Corner Cover +Base		GUC-20OA	GU-2015
		GUC-35OA	GU-3520
		GUC-45OA	GU-4525
Inside Corner Cover		GUC-20RX	GU-2015
		GUC-35RX	GU-3520
		GUC-45RX	GU-4525
Joint cover		GUC-20IX	GU-2015
		GUC-35IX	GU-3520
		GUC-45IX	GU-4525
End Cap		GUC-20EX	GU-2015
		GUC-35EX	GU-3520
		GUC-45EX	GU-4525
Ceiling Entry +Clip		GUC-20CA	GU-2015
		GUC-35CA	GU-3520
		GUC-45CA	GU-4525
Reducer		GUC-3520	(1-1/4" to 3/4")
		GUC-4520	(1-3/4" to 3/4")
		GUC-4535	(1-3/4" to 1-1/4")

INTRODUCTION OF HUA WEI'S BUSHINGS

Edge Protection and Fixture

Hua Wei's strain relief bushings are recommended by its full product line and applicable for all kinds of small white goods and lamps. Strain relief bushing fixed on the outlet of power cord is to secure and prevent the wire from pull-off. Open bushings are available for multiple seize. Open design is easy to apply to circular hole, and the surrounding design can be secured to protect the wire from abrasion and electrical short-cut. Extruded Grommeting can cut by users' need and is very flexible to bend over. Thus, it's very convenient to apply on all kinds of circular and irregular holes.

MATERIAL & APPLICATION TABLE

Product Name	Strain Relief Bushings	Open Bushings	Washing Machine Cord Bushings	Cable Clamps
Type	-	OB	SB-375-4	5462/10
Page	B-14	B-15	B-15	B-15
Material	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6
Operating Temperature				
Max.	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)
Min.	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)
Resistant Properties				
UV light/ozone	△	△	△	△
Oils and greases	◎	◎	◎	◎
Solvents	○	○	○	○
Petrol	◎	◎	◎	◎
Moisture				
Flammability	UL94V-2	UL94V-2	UL94V-2	UL94V-2
Possible Applications				
Switch cabinets			☆	
Machinery and equipment manufacture			☆	
Rail-borne vehicles				
Petro/chemical industry				
Offshore-industry	★	★		★
Telecommunications				
Shipbuilding				
Harnessmaker				
Public building				
Automobile industry				
Household applicances	★	★	★	★
Sample Applications				
Mechanical Protection				
Cable Protection	☆	★	★	★
Chafing protection for cables	★	★	★	★
Plastic housings	★	★	★	★
Insulation of wires	☆	☆	☆	☆

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

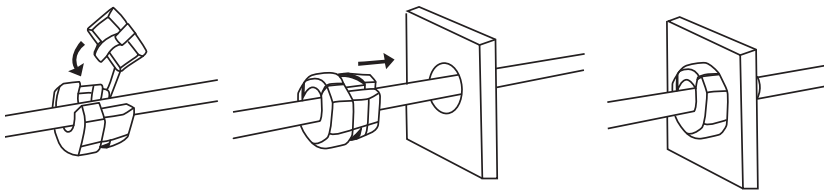
MATERIAL & APPLICATION TABLE

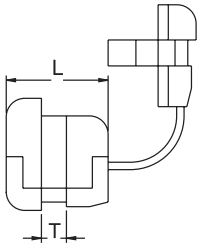
Product Name	Hole Plugs	Bushings	Extruded Grommeting
Type	M-13	FO	GMB
Page	B-16	B-16	B-16
Material	Polyamide 6,6	Polyamide 6,6	PE
Operating Temperature			
Max.	85ºC (185ºF)	85ºC (185ºF)	80ºC (176ºF)
Min.	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)
Resistant Properties			
UV light/ozone	△	△	○
Oils and greases	◎	◎	○
Solvents	○	○	○
Petrol	◎	◎	△
Moisture			○
Flammability	UL94V-2	UL94V-2	--
Possible Applications			
Switch cabinets			☆
Machinery and equipment manufacture			★
Rail-borne vehicles			
Petro/chemical industry			☆
Offshore-industry			
Telecommunications	★	★	
Shipbuilding			
Harnessmaker			★
Public building			
Automobile industry	★		★
Household applicances	★	★	
Sample Applications			
Mechanical Protection			
Cable Protection	★	★	★
Chafing protection for cables	★	★	★
Plastic housings	★	★	★
Insulation of wires		☆	☆

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

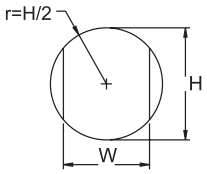
STRAIN RELIEF BUSHINGS

- Designed to insulate and protect cables and cords
- Provide non-slip grip and will not injure insulation of AC cord
- Material: Polyamide 6,6, UL94V-2
- Color: Black

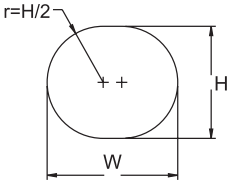




Maximun chassis thickness-part actually has additional clearance



chassis dimensions

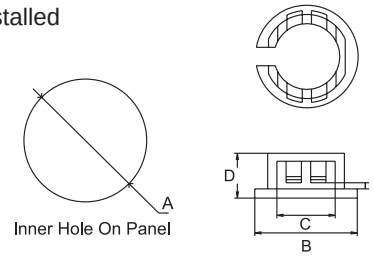


3W-1

Part No.	Cross Section Shape	Accommodated Wires		Mounting Holes		Max. Chassis Thickness T mm (inch)	Length L mm (inch)
		UL Wires	Approx. Wires Size mm (inch)	H mm (inch)	W mm (inch)		
2B-2	Flat	SPT-1 18/2	2.8x5.6 (0.11x0.22)	9.5 (0.37)	8.7 (0.34)	3.4 (0.13)	10.5 (0.41)
3B-1		SPT-1 18/2	3.1x5.6 (0.12x0.22)	10.3 (0.41)	12.3 (0.48)	1.6 (0.06)	10.3 (0.41)
3B-2		SPT-1 18/2	3.1x5.6 (0.12x0.22)	10.3 (0.41)	12.3 (0.48)	2.7 (0.11)	10.3 (0.41)
3W-1		SPT-2 18/3	3.8x10.2 (0.15x0.40)	9.5 (0.37)	16.0 (0.63)	2.4 (0.09)	11.9 (0.47)
4B-2		SPT-1 18/2	3.1x5.6 (0.12x0.22)	12.7 (0.50)	11.3 (0.44)	2.6 (0.10)	11.0 (0.43)
4L-2		SPT-2 18/2	3.1x7.6 (0.12x0.30)	12.7 (0.50)	11.5 (0.45)	2.6 (0.10)	10.5 (0.41)
4W-2		SPT-2 18/2	3.8x7.1 (0.15x0.28)	12.7 (0.50)	11.9 (0.47)	1.6 (0.06)	10.8 (0.43)
5B-2	Round	SVT 18/3	ø6.4~7.4 (0.25x0.29)	11.2 (0.44)	14.5 (0.57)	2.6 (0.10)	11.1 (0.44)
5W-2		AWM 24 64 22/12	ø6.4~7.4 (0.25x0.29)	12.5 (0.49)	11.5 (0.45)	1.6 (0.06)	11.1 (0.44)
6B3-2R		SJT 18/3	ø8.3~9.2 (0.32x0.36)	16.1 (0.63)	14.0 (0.55)	3.2 (0.13)	14.9 (0.59)
6B3-2S		SJT 18/3	ø8.3~9.2 (0.32x0.36)	16.1 (0.63)	14.0 (0.55)	2.8 (0.11)	15.2 (0.60)
6W3-4R		SJT 18/3	ø8.3~9.2 (0.32x0.36)	16.1 (0.63)	14.0 (0.55)	1.6 (0.06)	14.7 (0.58)
6W3-4S		SJT 18/3	ø8.3~9.2 (0.32x0.36)	16.1 (0.63)	14.0 (0.55)	1.6 (0.06)	14.7 (0.58)
7H-2		SJT 14/3	ø9.2~11.0 (0.36x0.43)	16.8 (0.66)	15.7 (0.62)	1.8 (0.07)	19.1 (0.75)
8H-2		SJT 12/3	ø13.5~15.3 (0.53x0.60)	21.1 (0.83)	19.5 (0.77)	3.5 (0.14)	20.7 (0.81)
9H-2		#18 20~30PCS	ø11.0~15.0 (0.43x0.59)	23.1 (0.91)	22.2 (0.87)	1.8 (0.07)	17.6 (0.69)

OPEN BUSHINGS

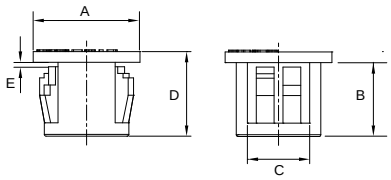
- Protect power cord and smooth your chasis hole
- Easy installation, No tool is needed
- Can be applied after power cable was installed
- Material: Polyamide 6,6, UL94V-2
- Color: Black



Part No.	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)
OB-12	ø12.7 (0.50)	ø16.8 (0.66)	ø10.8 (0.43)	7.3 (0.29)
OB-16	ø15.9 (0.63)	ø20.3 (0.80)	ø14.1 (0.56)	7.3 (0.29)
OB-19	ø19.0 (0.75)	ø22.5 (0.89)	ø16.5 (0.65)	7.3 (0.29)
OB-20	ø19.5 (0.77)	ø26.0 (1.02)	ø20.0 (0.79)	7.2 (0.28)
OB-21	ø22.2 (0.87)	ø24.6 (0.97)	ø19.2 (0.76)	7.5 (0.30)
OB-22	ø22.0 (0.87)	ø26.0 (1.02)	ø20.0 (0.79)	7.3 (0.29)

WASHING MACHINE CORD BUSHINGS

- The cord bushings are designed to insulate and protect electrical cords of washing machine
- Provide non-slip grip and will not injure insulation of AC cord
- Material: Polyamide 6,6, UL94V-2
- Color: Black



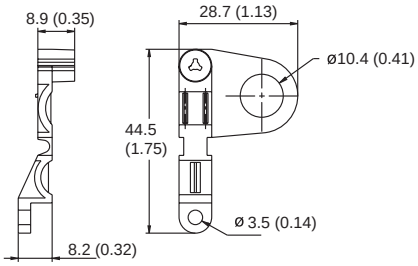
Part No.	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
SB-375-4	ø12 (0.47)	6.8 (0.27)	ø7.0 (0.28)	9.5 (0.37)	0.7 (0.03)

CABLE CLAMPS

- Acting as a bushing to protect the cable, a stress relief to avoid pulling the wires from their connections and the possibility to terminate the cables, the cable clamps restraints are simple to install using just one screw
- Material: Polyamide 6,6, UL94V-2
- Color:Natural, black

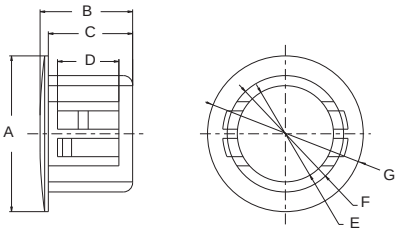
Part No.: 5462/10

Unit: mm (inch)



HOLE PLUGS

- Hole in chassis : 12.7~13 mm
- Easy installation, no tool is required
- Ideal for closing panel cavity
- Material: Polyamide 6,6, UL94V-2
- Color: Black

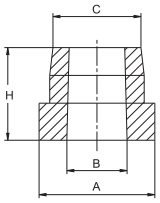


RoHS HF

Part No.	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)	G mm (inch)
M-13	ø17.0 (0.67)	10.1 (0.40)	9.2 (0.36)	6.7 (0.26)	ø10.5 (0.41)	ø12.7 (0.50)	ø14.6 (0.57)

BUSHINGS

- Application for lighting and electric equipment
- Protect electrical cable against rough hole edges
- Material: Polyamide 6,6, UL94V-2
- Color: Black



RoHS HF

Part No.	A mm (inch)	B mm (inch)	C mm (inch)	H mm (inch)
FO-31	ø12.3 (0.48)	ø7.1 (0.28)	ø9.1 (0.36)	5.9 (0.23)
FO-45	ø12.4 (0.49)	ø6.5 (0.26)	ø9.4 (0.37)	9.8 (0.39)

EXTRUDED GROMMETING

- Applied to the panel edge easily without the need for adhesives
- The close-fitting profile provides effective protection for cables by preventing any chafing
- Material: PE
- Color: Natural

RoHS HF

Part No.	Duct Dia. mm (inch)	Panel Thickness mm (inch)
GMB-10	1.0 (0.04)	below 1.0 (0.04)
GMB-16	1.6 (0.06)	1.0~1.6 (0.04~0.06)
GMB-20	2.0 (0.08)	1.6~2.0 (0.06~0.08)
GMB-24	2.4 (0.09)	2.0~2.4 (0.08~0.09)
GMB-32	3.2 (0.13)	2.4~3.2 (0.09~0.13)
GMB-45	4.5 (0.18)	3.2~4.5 (0.13~0.18)

INTRODUCTION OF HUA WEI'S CONDUIT AND FITTING SERIES

Hua Wei's conduit and fitting series are applicable for temperature between -40˚C up to 85˚C, resistant to solvents, liquid-tight, or with silicone cover − no matter which protective system you require, Hua Wei will certainly have a solution for your request.

You will find our products in the mechanical engineering sector, in wind power stations, or in the automotive. They keep electromagnetic impacts away from data lines, they protect laser light guides against physical impacts, or they guarantee easy stability for tools and instruments in the medical sector. So if it is about protective tubing systems, we will take well care of you- in a competent, comprehensive, and innovative way.

Hua Wei’s cable glands comply with IP68 standard, and are applying UL certification. Cable glands are ideal for fixing cables of machines, electrical applications, mechanical control boards/ boxes.

REFERENCE FOR CONDUIT AND FITTING SERIES

Nominal Dimension		Conduits			Conduit Adaptors			Mounting Brackets	
mm	inch	PA 6	PE	PP	Five-Piece	Angle Type	Quick-Fixed	U Type	Capped
6.4	1/4"	NFC-07	EFC-07	PFC-07	FC5-07	FCL-07	--	XFN-07	XFW-07
7.9	5/16"	NFC-10	EFC-10	PFC-10	FC5-10	FCL-10	--	XFN-10	XFW-10
9.5	3/8"	NFC-12	EFC-12	PFC-12	FC5-12	FCL-12	FCG-12	XFN-12	XFW-12
12.7	1/2"	NFC-17	EFC-17	PFC-17	FC5-17	FCL-17	FCG-17	XFN-17	XFW-17
19.1	3/4"	NFC-23	EFC-23	PFC-23	FC5-23	FCL-23	FCG-23	XFN-23	XFW-23
25.4	1"	NFC-28	EFC-28	PFC-28	FC5-28	FCL-28	FCG-28	XFN-28	XFW-28
31.8	1 1/4"	NFC-36	EFC-36	PFC-36	FC5-36	FCL-36	FCG-36	XFN-36	XFW-36
50.8	2"	NFC-48	EFC-48	PFC-48	FC5-48	FCL-48	FCG-48	XFN-48	XFW-48

COMPARISON FOR MATERIAL OF CONDUITS

Material / Properties	PA 6	PE	PP
Temperature range	○	○	○
Flexibility	○	◎	○
Cross pressure strength	○	○	◎
Tensile stength	○	△	○
Bending radius	△	◎	◎
Oil resistance	○	◎	◎
Solvent resistance	○	○	○
Alternate bending strength	◎	◎	◎
Flame resistance	◎	○ (△)	○ (△)
Density of smoke	◎	○	○

◎ Excellent ○ Good △ Medium

MATERIAL & APPLICATION TABLE

Product Name	PA Flexible Conduits	PE Flexible Conduits	PP Flexible Conduits	Five-Piece Conduit Adaptors
Type	NFC	EFC	PFC	FC5
Page	B-21	B-21	B-22	B-22
Material	Polyamide 6	PE	PP	Polyamide 6,6
Operating Temperature				
Max.	85ºC (185ºF)	80ºC (176ºF)	70ºC (158ºF)	85ºC (185ºF)
Min.	−40ºC (−40ºF)	−40ºC (−40ºF)	−20ºC (−4ºF)	−40ºC (−40ºF)
Resistant Properties				
UV light/ozone	○	△	△	△
Oils and greases	○	◎	◎	◎
Solvents	○	○	○	○
Petrol	○	○	○	◎
Flammability	UL94V-2	--	UL94HB	UL94V-2
Possible applications				
Switch cabinets	★	★	★	★
Machinery and eauipment manufacture	★	★	★	★
Rail-borne vehiclles	★	★	★	★
Petro/chemical industry	★	★	★	★
Offshore-industry				☆
Telecommunications				★
Shipbuilding				★
Harnessmaker	★	★	★	★
Robotics industry	★	★	★	★
Public building	★	★	★	☆
Automobile industry	★	★	★	
Aerospace industry				
Household application	★	★	★	★
Sample applications				
Bundling of cables and wires				
Wiring in switchboards				★
Protection of wires	★	★	★	★
Chafing protection for cables				
Insulation of wires	★	★	★	★
Fastenings of ducts				

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

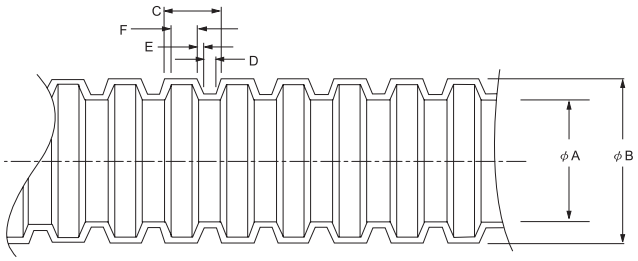
MATERIAL & APPLICATION TABLE

Product Name	Angle Type Conduit Adaptors	Quick-Disconnect Conduit Adaptors	Conduit Mounting Brackets	Cable Glands
Type	FCL	FCG	XFN, XFW	PG, M, NPT
Page	B-23	B-24	B-25	B-26 / B-27
Material	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6	Polyamide 6,6
Operating Temperature				
Max.	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)	85ºC (185ºF)
Min.	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)	−40ºC (−40ºF)
Resistant Properties				
UV light/ozone	△	△	△	△
Oils and greases	◎	◎	◎	◎
Solvents	○	○	○	○
Petrol	◎	◎	◎	◎
Flammability	UL94V-2	UL94V-2	UL94V-2	UL94V-2
Possible applications				
Switch cabinets	★	★	★	★
Machinery and eauipment manufacture	★	★	★	★
Rail-borne vehiclles	★	★	★	★
Petro/chemical industry	★	★	★	★
offshore-industry	☆	☆	☆	☆
Telecommunications	★	★	★	★
Shipbuilding	★	★	★	★
Harnessmaker	★	★	★	★
Robotics industry	★	★	★	★
Public building	☆	☆	☆	☆
Automobile industry				
Aerospace industry				
Household application	★	★	★	★
Sample applications				
Bundling of cables and wires				
Wiring in switchboards	★	★	★	★
Protection of wires	★	★	★	★
Chafing protection for cables				★
Insulation of wires	★	★		
Fastenings of ducts			★	

◎ Excellent ○ Good △ Medium ★ Suitable ☆ Partly Suitable

PA FLEXIBLE CONDUITS

- Applicable on electrical, machinery, and building harness wiring
- Flexibility for installation while providing protection to cables
- Fluid resistance
- Material: Polyamide 6, UL94V-2
- Color: Black

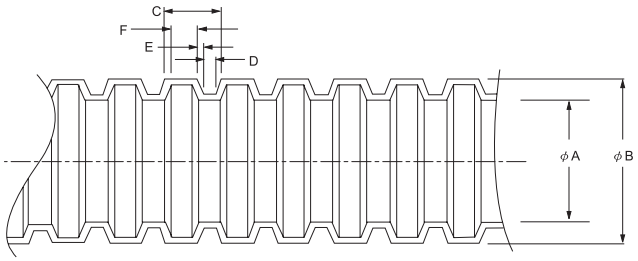


RoHS

Part No.	Nominal Dimension		In-Diameter A mm (inch)	Outer-Diameter B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)
	mm	inch						
NFC-07	6.4	1/4"	ø6.8±0.4 (0.27±0.02)	ø10.0±0.4 (0.39±0.02)	2.7 (0.11)	0.6 (0.02)	0.3 (0.01)	1.5 (0.06)
NFC-10	7.9	5/16"	ø9.6±0.4 (0.38±0.02)	ø13.0±0.4 (0.51±0.02)	2.9 (0.12)	0.6 (0.02)	0.3 (0.01)	1.7 (0.07)
NFC-12	9.5	3/8"	ø12.0±0.4 (0.47±0.02)	ø15.8±0.4 (0.62±0.02)	3.2 (0.13)	0.7 (0.03)	0.3 (0.01)	1.9 (0.07)
NFC-17	12.7	1/2"	ø16.2±0.4 (0.64±0.02)	ø21.2±0.4 (0.83±0.02)	3.5 (0.14)	0.6 (0.02)	0.4 (0.02)	2.1 (0.08)
NFC-23	19.1	3/4"	ø21.9±0.4 (0.86±0.02)	ø28.5±0.4 (1.12±0.02)	4.8 (0.19)	0.8 (0.03)	0.5 (0.02)	3.0 (0.12)
NFC-28	25.4	1"	ø27.6±0.4 (1.09±0.02)	ø34.5±0.4 (1.36±0.02)	4.8 (0.19)	0.9 (0.03)	0.6 (0.02)	2.7 (0.11)
NFC-36	31.8	1 1/4"	ø36.0±0.4 (1.42±0.02)	ø42.5±0.4 (1.67±0.02)	6.4 (0.25)	1.2 (0.05)	0.8 (0.03)	3.7 (0.15)
NFC-48	50.8	2"	ø47.0±0.4 (1.85±0.02)	ø54.5±0.4 (2.15±0.02)	6.4 (0.25)	1.1 (0.04)	0.8 (0.03)	3.8 (0.15)

PE FLEXIBLE CONDUITS

- Applicable on electrical, machinery, and building harness wiring
- Flexibility for installation while providing protection to cables
- Fluid resistance
- Material: PE
- Color: Black, other colors are also available

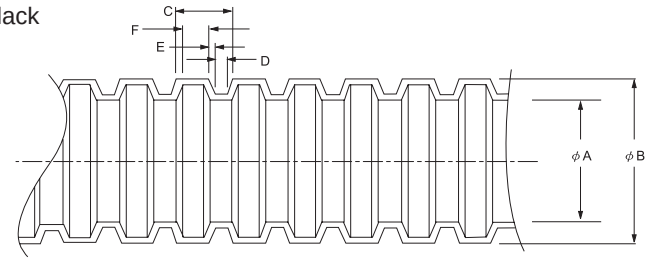


RoHS

Part No.	Nominal Dimension		In-Diameter A mm (inch)	Outer-Diameter B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)
	mm	inch						
EFC-07	6.4	1/4"	ø6.8±0.4 (0.27±0.02)	ø10.0±0.4 (0.39±0.02)	2.7 (0.11)	0.6 (0.02)	0.3 (0.01)	1.5 (0.06)
EFC-10	7.9	5/16"	ø9.6±0.4 (0.38±0.02)	ø13.0±0.4 (0.51±0.02)	2.9 (0.12)	0.6 (0.02)	0.3 (0.01)	1.7 (0.07)
EFC-12	9.5	3/8"	ø12.0±0.4 (0.47±0.02)	ø15.8±0.4 (0.62±0.02)	3.2 (0.13)	0.7 (0.03)	0.3 (0.01)	1.9 (0.07)
EFC-17	12.7	1/2"	ø16.2±0.4 (0.64±0.02)	ø21.2±0.4 (0.83±0.02)	3.5 (0.14)	0.6 (0.02)	0.4 (0.02)	2.1 (0.08)
EFC-23	19.1	3/4"	ø21.9±0.4 (0.86±0.02)	ø28.5±0.4 (1.12±0.02)	4.8 (0.19)	0.8 (0.03)	0.5 (0.02)	3.0 (0.12)
EFC-28	25.4	1"	ø27.6±0.4 (1.09±0.02)	ø34.5±0.4 (1.36±0.02)	4.8 (0.19)	0.9 (0.03)	0.6 (0.02)	2.7 (0.11)
EFC-36	31.8	1 1/4"	ø36.0±0.4 (1.42±0.02)	ø42.5±0.4 (1.67±0.02)	6.4 (0.25)	1.2 (0.05)	0.8 (0.03)	3.7 (0.15)
EFC-48	50.8	2"	ø47.0±0.4 (1.85±0.02)	ø54.5±0.4 (2.15±0.02)	6.4 (0.25)	1.1 (0.04)	0.8 (0.03)	3.8 (0.15)

PP FLEXIBLE CONDUITS

- Applicable on electrical, machinery, and building harness wiring
- Flexibility for installation while providing protection to cables
- Fluid resistance
- Cut open products are also available
- Material: PP
- Color: Black

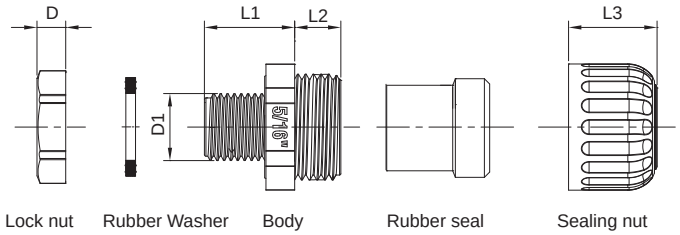


RoHS

Part No.	Nominal Dimension		In-Diameter A mm (inch)	Outer-Diameter B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)
	mm	inch						
PFC-07	6.4	1/4"	ø6.8±0.4 (0.27±0.02)	ø10.0±0.4 (0.39±0.02)	2.7 (0.11)	0.6 (0.02)	0.3 (0.01)	1.5 (0.06)
PFC-10	7.9	5/16"	ø9.6±0.4 (0.38±0.02)	ø13.0±0.4 (0.51±0.02)	2.9 (0.12)	0.6 (0.02)	0.3 (0.01)	1.7 (0.07)
PFC-12	9.5	3/8"	ø12.0±0.4 (0.47±0.02)	ø15.8±0.4 (0.62±0.02)	3.2 (0.13)	0.7 (0.03)	0.3 (0.01)	1.9 (0.07)
PFC-17	12.7	1/2"	ø16.2±0.4 (0.64±0.02)	ø21.2±0.4 (0.83±0.02)	3.5 (0.14)	0.6 (0.02)	0.4 (0.02)	2.1 (0.08)
PFC-23	19.1	3/4"	ø21.9±0.4 (0.86±0.02)	ø28.5±0.4 (1.12±0.02)	4.8 (0.19)	0.8 (0.03)	0.5 (0.02)	3.0 (0.12)
PFC-28	25.4	1"	ø27.6±0.4 (1.09±0.02)	ø34.5±0.4 (1.36±0.02)	4.8 (0.19)	0.9 (0.03)	0.6 (0.02)	2.7 (0.11)
PFC-36	31.8	1 1/4"	ø36.0±0.4 (1.42±0.02)	ø42.5±0.4 (1.67±0.02)	6.4 (0.25)	1.2 (0.05)	0.8 (0.03)	3.7 (0.15)
PFC-48	50.8	2"	ø47.0±0.4 (1.85±0.02)	ø54.5±0.4 (2.15±0.02)	6.4 (0.25)	1.1 (0.04)	0.8 (0.03)	3.8 (0.15)

FIVE-PIECE CONDUIT ADAPTORS

- Insert conduit into claw and screw in the sealing nut for fastening, then insert the body into the board and fix with lock nut
- Applied without tools make work more efficient
- Suitable for fixing wires of machines, mechanical control boards/ boxes and prevent from dust and water
- Material: Polyamide 6,6, UL94V-2. Washer: NBR
- Color: Black

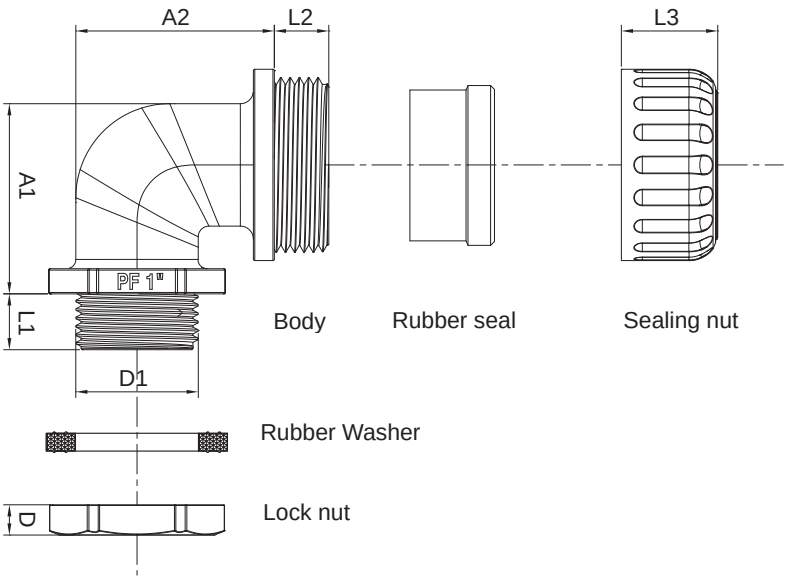


IP68 RoHS

Part No.	Thread (PF)	Suitable Conduits	D mm (inch)	D1 mm (inch)	L1 mm (inch)	L2 mm (inch)	L3 mm (inch)
FC5-07	1/4"	NFC-07	5.6 (0.22)	ø13.1 (0.51)	17.6 (0.69)	8.5 (0.33)	17.0 (0.67)
FC5-10	1/4"	NFC-10	5.6 (0.22)	ø13.1 (0.51)	17.6 (0.69)	9.0 (0.35)	17.3 (0.68)
FC5-12	3/8"	NFC-12	5.6 (0.22)	ø16.6 (0.65)	17.5 (0.69)	10.8 (0.43)	18.0 (0.71)
FC5-17	1/2"	NFC-17	6.4 (0.25)	ø20.9 (0.82)	17.5 (0.69)	10.8 (0.43)	18.6 (0.73)
FC5-23	3/4"	NFC-23	6.5 (0.26)	ø26.3 (1.04)	17.8 (0.70)	11.5 (0.45)	20.7 (0.81)
FC5-28	1"	NFC-28	7.5 (0.30)	ø33.1 (1.30)	21.5 (0.85)	11.7 (0.46)	20.9 (0.82)
FC5-36	1-1/4"	NFC-36	7.5 (0.30)	ø42.2 (1.66)	22.5 (0.89)	15.0 (0.59)	24.8 (0.98)
FC5-48	2"	NFC-48	8.5 (0.33)	ø59.5 (2.34)	28.5 (1.12)	14.5 (0.57)	27.8 (1.09)

ANGLE TYPE CONDUIT ADAPTORS

- Insert conduit into claw and screw in the sealing nut for fastening. Insert the body into the board and fix with lock nut
- 90 degree design suitable for corner application
- Applied without tools make work more efficient
- Suitable for fixing wires of machines, mechanical control boards/ boxes and prevent from dust and water
- Material: Polyamide 6,6, UL94V-2. Washer: NBR
- Color: Black



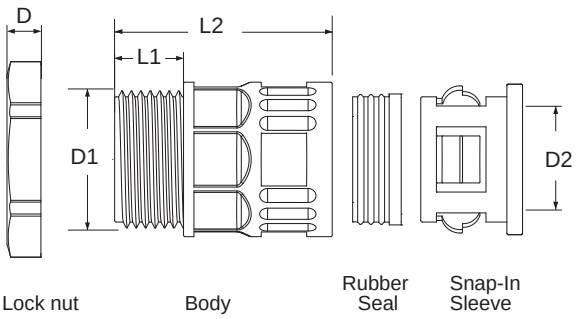
IP68 RoHS

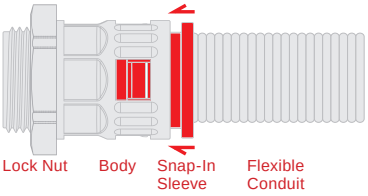
Part No.	Thresd (PF)	Suitable Conduits	D mm (inch)	D1 mm (inch)	L1 mm (inch)	A1 mm (inch)	A2 mm (inch)	L2 mm (inch)	L3 mm (inch)
FCL-07	1/4"	NFC-07	5.6 (0.22)	ø12.9 (0.51)	12.0 (0.47)	25.6 (1.01)	24.5 (0.96)	8.5 (0.33)	17.0 (0.67)
FCL-10	1/4"	NFC-10	5.6 (0.22)	ø12.9 (0.51)	12.1 (0.48)	27.9 (1.10)	26.9 (1.06)	9.0 (0.35)	17.3 (0.68)
FCL-12	3/8"	NFC-12	5.6 (0.22)	ø16.5 (0.65)	12.0 (0.47)	29.8 (1.17)	29.3 (1.15)	9.4 (0.37)	18.0 (0.71)
FCL-17	1/2"	NFC-17	6.4 (0.25)	ø20.7 (0.81)	12.0 (0.47)	37.1 (1.46)	34.2 (1.34)	11.5 (0.45)	18.6 (0.73)
FCL-23	3/4"	NFC-23	6.5 (0.26)	ø26.3 (1.04)	12.5 (0.49)	40.9 (1.61)	42.7 (1.68)	12.2 (0.48)	20.7 (0.82)
FCL-28	1"	NFC-28	7.5 (0.30)	ø33.2 (1.31)	15.3 (0.60)	49.7 (1.95)	51.5 (2.03)	12.4 (0.49)	20.9 (0.82)
FCL-36	1-1/4"	NFC-36	7.5 (0.30)	ø41.9 (1.65)	15.0 (0.59)	63.1 (2.48)	68.6 (2.70)	15.0 (0.59)	24.8 (0.98)
FCL-48	2"	NFC-48	8.5 (0.33)	ø59.5 (2.34)	20.0 (0.79)	87.0 (3.43)	89.0 (3.50)	14.5 (0.57)	27.8 (1.09)

QUICK DISCONNECT CONDUIT ADAPTORS

- Push-in lock design makes connection and disconnection quick and energy-saving
- Simple dismounting the conduit from adaptor by pressing the snap-in sleeve
- Smallest outer dimensions to be used under confined conditions
- For machine, train, elevator...etc., where the maintenance need to be quick and perfectly done
- Material: Polyamide 6,6, UL94V-2
- Color: Black

Disconnect





Press The Snap-In Sleeve & Pull Out

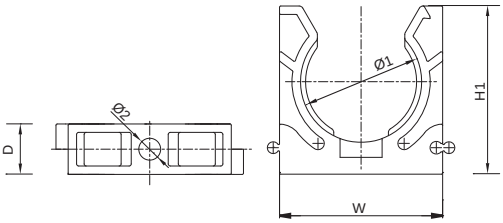
IP68 RoHS

Part No.	Thread (PF)	Suitable Conduits	D mm (inch)	D1 mm (inch)	D2 mm (inch)	L1 mm (inch)	L2 mm (inch)
FCG-12	1/2"	NFC-12	5.6 (0.22)	Ø20.8 (0.82)	Ø16.0 (0.63)	9.5 (0.37)	34.5 (1.36)
FCG-17	1/2"	NFC-17	6.5 (0.26)	Ø20.8 (0.82)	Ø22.2 (0.87)	11.7 (0.46)	40.0 (1.57)
FCG-23	3/4"	NFC-23	6.5 (0.26)	Ø26.3 (1.04)	Ø29.2 (1.15)	13.5 (0.53)	44.2 (1.74)
FCG-28	1"	NFC-28	7.5 (0.30)	Ø33.1 (1.30)	Ø35.6 (1.40)	13.5 (0.53)	46.3 (1.82)
FCG-36	1-1/4"	NFC-36	7.5 (0.30)	Ø41.5 (1.63)	Ø43.3 (1.70)	17.4 (0.69)	50.4 (1.98)
FCG-48	2"	NFC-48	8.5 (0.33)	Ø59.5 (2.34)	Ø55.0 (2.17)	15.5 (0.61)	51.5 (2.03)

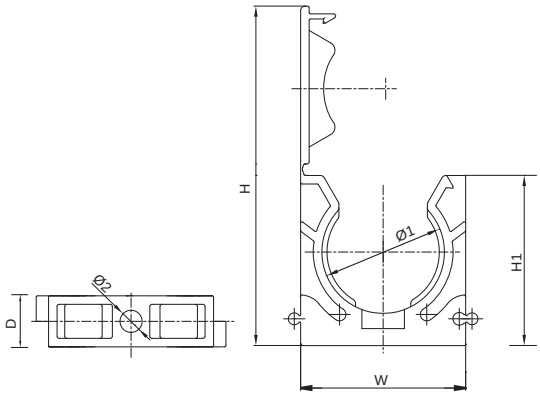
CONDUIT MOUNTING BRACKETS

- Apply for fixing the conduits. With screw on the bottom to fix on wall or ceil
- Applicable for joint together for multiple conduits
- U type is easy to clip and unfasten
- The cap design can secure the fixed of conduits
- Material: Polyamide 6,6, UL94V-2
- Color: Black

U Type



Capped Type



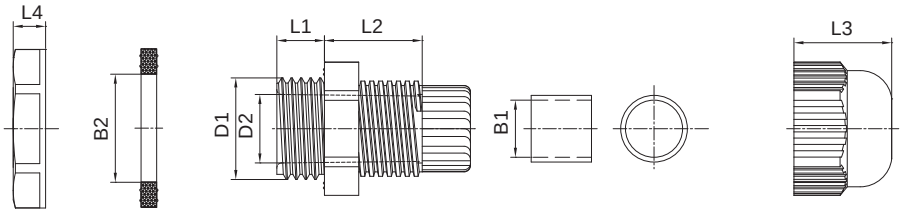
RoHS

Part No.		Nominal Dimensionl		Suitable Conduits	W	H	H1	D	Ø 1	Ø 2	Mounting Screw
U Type	Capped	mm	inch		mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	
XFN-07	XFW-07	6.4	1/4"	NFC-07	19.5 (0.77)	40.9 (1.61)	20.6 (0.81)	10.0 (0.39)	Ø10.1 (0.40)	Ø4.5 (0.18)	M4 x15-30
XFN-10	XFW-10	7.9	5/16"	NFC-10	22.5 (0.89)	46.8 (1.84)	23.5 (0.93)	10.0 (0.39)	Ø13.2 (0.52)	Ø4.5 (0.18)	M4 x15-30
XFN-12	XFW-12	9.5	3/8"	NFC-12	25.4 (1.00)	52.4 (2.06)	26.2 (1.03)	10.0 (0.39)	Ø16.0 (0.63)	Ø4.5 (0.18)	M4 x15-30
XFN-17	XFW-17	12.7	1/2"	NFC-17	31.0 (1.22)	63.0 (2.48)	31.0 (1.22)	10.0 (0.39)	Ø21.5 (0.85)	Ø4.5 (0.18)	M4 x15-30
XFN-23	XFW-23	19.1	3/4"	NFC-23	38.8 (1.53)	79.8 (3.14)	40.0 (1.57)	12.0 (0.47)	Ø28.8 (1.13)	Ø5.5 (0.22)	M5 x15-30
XFN-28	XFW-28	25.4	1"	NFC-28	47.0 (1.85)	94.6 (3.72)	46.2 (1.82)	12.0 (0.47)	Ø34.8 (1.37)	Ø5.5 (0.22)	M5 x15-30
XFN-36	XFW-36	31.8	1-1/4"	NFC-36	55.8 (2.20)	113.3 (4.46)	56.0 (2.20)	16.0 (0.63)	Ø42.8 (1.69)	Ø6.2 (0.24)	M6 x15-30
XFN-48	XFW-48	50.8	2"	NFC-48	70.0 (2.76)	140.1 (5.52)	68.2 (2.69)	20.0 (0.79)	Ø54.8 (2.16)	Ø6.5 (0.26)	M6 x15-30

CABLE GLANDS

- Time saving, cable can be easily once inserted into through the gland without dismantling the parts
- Suggested clearance hole for non-threaded mounting
- Suitable for fixing wires of machines, electrical applications, mechanical control boards/ boxes
- The gland can stand the temp. up to140ºC (284°F) in short time
- Material: Polyamide 6,6, UL94V-2. Neoprene for seal insert, with nut
- Color: Black, grey, light grey

PG Gland/ Metric Gland



Lock nut Rubber Washer Body Rubber Seal Sealing Nut

IP68 RoHS HF

Part No.	Mounting Hole Ø mm (inch)	D1 mm (inch)	D2 mm (inch)	B1 mm (inch)	B2 mm (inch)	L1 mm (inch)	L2 mm (inch)	L3 mm (inch)	L4 mm (inch)	Cord Range (mm^2)
PG Gland Range										
PG-07	ø13.0 (0.51)	ø12.5 (0.49)	ø7.5 (0.30)	ø7.2 (0.28)	ø12.5 (0.49)	8.0 (0.31)	14.5 (0.57)	13.0 (0.51)	5.0 (0.20)	3.0~6.5
PG-09	ø15.7 (0.62)	ø15.2 (0.60)	ø10.0 (0.39)	ø9.9 (0.39)	ø15.2 (0.60)	8.0 (0.31)	15.5 (0.61)	15.3 (0.60)	5.0 (0.20)	4.0~8.0
PG-11	ø19.1 (0.75)	ø18.6 (0.73)	ø13.5 (0.53)	ø13.1 (0.52)	ø18.6 (0.73)	8.0 (0.31)	17.0 (0.67)	17.5 (0.69)	5.0 (0.20)	5.0~10.0
PG-13.5	ø20.9 (0.82)	ø20.4 (0.80)	ø13.5 (0.53)	ø13.1 (0.52)	ø20.4 (0.80)	10.0 (0.39)	17.0 (0.67)	17.5 (0.69)	6.0 (0.24)	6.0~12.0
PG-16	ø23.0 (0.91)	ø22.5 (0.89)	ø17.5 (0.69)	ø17.0 (0.67)	ø22.5 (0.89)	10.0 (0.39)	19.0 (0.75)	19.5 (0.77)	6.0 (0.24)	10.0~14.0
PG-21	ø28.8 (1.13)	ø28.3 (1.11)	ø21.4 (0.84)	ø21.0 (0.83)	ø28.3 (1.11)	10.0 (0.39)	21.2 (0.83)	25.0 (0.98)	7.0 (0.28)	13.0~18.0
PG-29	ø37.5 (1.48)	ø37.0 (1.46)	ø28.8 (1.13)	ø28.0 (1.10)	ø37.0 (1.46)	11.0 (0.43)	23.4 (0.92)	25.5 (1.00)	7.0 (0.28)	18.0~25.0
PG-36	ø47.5 (1.87)	ø47.0 (1.85)	ø36.5 (1.44)	ø35.3 (1.39)	ø47.0 (1.85)	12.0 (0.47)	27.8 (1.09)	30.0 (1.18)	8.0 (0.31)	22.0~32.0
PG-42	ø54.5 (2.15)	ø54.0 (2.13)	ø38.5 (1.52)	ø38.0 (1.50)	ø54.0 (2.13)	14.6 (0.57)	31.0 (1.22)	32.0 (1.26)	8.0 (0.31)	28.2~38.0
PG-48	ø59.8 (2.35)	ø59.3 (2.33)	ø46.0 (1.81)	ø45.5 (1.79)	ø59.3 (2.33)	15.5 (0.61)	30.6 (1.20)	34.5 (1.36)	8.0 (0.31)	35.0~45.0

IP68 RoHS HF

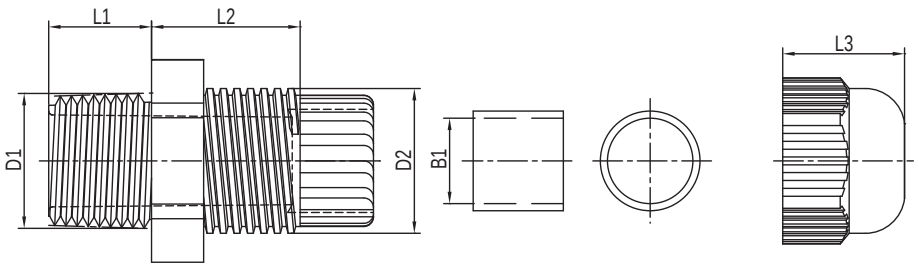
Part No.	Mounting Hole Ø mm (inch)	D1 mm (inch)	D2 mm (inch)	B1 mm (inch)	B2 mm (inch)	L1 mm (inch)	L2 mm (inch)	L3 mm (inch)	L4 mm (inch)	Cord Range (mm^2)
Metric Gland Range										
M12	ø12.5 (0.49)	ø12.5 (0.49)	ø7.5 (0.30)	ø7.2 (0.28)	ø12.5 (0.49)	8.0 (0.31)	14.5 (0.57)	13.0 (0.51)	5.0 (0.20)	3.0~6.5
M16	ø16.5 (0.65)	ø16.5 (0.65)	ø11.0 (0.43)	ø9.9 (0.39)	ø16.5 (0.65)	7.5 (0.30)	15.5 (0.61)	15.3 (0.60)	5.0 (0.20)	4.0~8.0
M20	ø20.5 (0.81)	ø20.5 (0.81)	ø17.5 (0.69)	ø17.0 (0.67)	ø20.5 (0.81)	10.0 (0.39)	19.0 (0.75)	19.5 (0.77)	6.0 (0.24)	10.0~14.0
M25	ø25.5 (1.00)	ø25.5 (1.00)	ø21.4 (0.84)	ø21.0 (0.83)	ø25.5 (1.00)	11.0 (0.43)	21.2 (0.83)	25.0 (0.98)	6.0 (0.24)	13.0~18.0
M32	ø32.5 (1.28)	ø32.5 (1.28)	ø27.0 (1.06)	ø28.0 (1.10)	ø32.5 (1.28)	10.3 (0.41)	23.4 (0.92)	25.5 (1.00)	7.0 (0.28)	18.0~25.0
M40	ø40.5 (1.59)	ø40.5 (1.59)	ø36.5 (1.44)	ø35.3 (1.39)	ø40.5 (1.59)	12.0 (0.47)	27.8 (1.09)	30.0 (1.18)	7.0 (0.28)	23.8~31.4
M50	ø50.5 (1.99)	ø50.5 (1.99)	ø38.5 (1.52)	ø38.0 (1.50)	ø50.5 (1.99)	12.0 (0.47)	31.0 (1.22)	32.0 (1.26)	8.0 (0.31)	27.3~38.4
M63	ø63.5 (2.50)	ø63.5 (2.50)	ø46.0 (1.81)	ø45.5 (1.79)	ø63.5 (2.50)	15.5 (0.61)	30.6 (1.20)	34.5 (1.36)	8.0 (0.31)	35.0~45.0

IP68 RoHS HF

Part No.	Thread (NPT)	D1 mm (inch)	D2 mm (inch)	B1 mm (inch)	L1 mm (inch)	L2 mm (inch)	L3 mm (inch)	Cord Range (mm^2)
NPT Gland Range								
EN-12A	3/8”	ø17.1 (0.20)	ø18.3 (0.33)	ø9.0 (0.35)	13.0 (0.51)	15.1 (0.20)	17.2 (0.28)	4.0~7.0
EN-12B	3/8”	ø17.1 (0.20)	ø18.3 (0.33)	ø11.0 (0.04)	13.0 (0.51)	15.1 (0.20)	17.2 (0.28)	6.0~10.0
EN-17A	1/2”	ø21.2 (0.87)	ø22.3 (0.09)	ø12.0 (0.08)	15.0 (0.59)	16.8 (0.27)	19.2 (0.36)	8.0~11.0
*EN-17B	1/2”	ø21.2 (0.87)	ø22.3 (0.09)	ø14.0 (0.16)	15.0 (0.59)	16.8 (0.27)	19.2 (0.36)	8.7~14.5
EN-23A	3/4”	ø26.6 (2.24)	ø28.2 (0.32)	ø17.0 (0.28)	15.0 (0.59)	20.3 (0.01)	22.6 (0.10)	10.0~16.0
EN-23B	3/4”	ø26.6 (2.24)	ø28.2 (0.32)	ø19.7 (0.38)	15.0 (0.59)	20.3 (0.01)	22.6 (0.10)	12.5~18.0
*EN-28A	1”	ø33.2 (0.91)	ø37.0 (0.28)	ø23.6 (0.14)	17.0 (0.67)	20.5 (0.02)	26.4 (0.25)	16.7~20.8
*EN-28B	1”	ø33.2 (0.91)	ø37.0 (0.28)	ø26.6 (0.26)	17.0 (0.67)	20.5 (0.02)	26.4 (0.25)	18.7~25.8
*EN-36A	1-1/4”	ø42.0 (3.86)	ø52.0 (0.08)	ø28.6 (0.34)	17.0 (0.67)	27.8 (0.31)	30.0 (1.18)	20.7~25.8
*EN-36B	1-1/4”	ø42.0 (3.86)	ø52.0 (0.08)	ø35.3 (0.21)	17.0 (0.67)	27.8 (0.31)	30.0 (1.18)	23.8~28.1

* UL certified.

NPT Gland

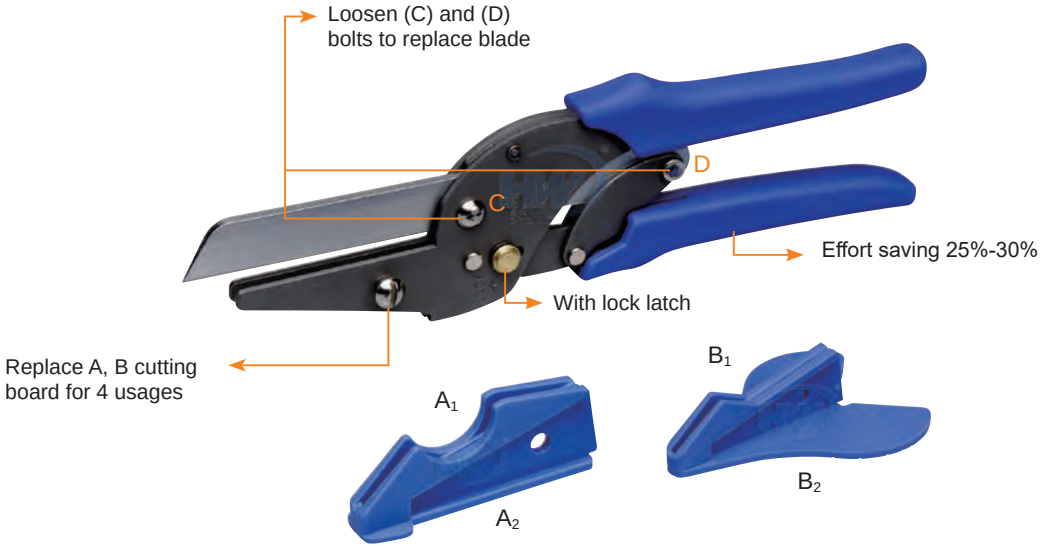


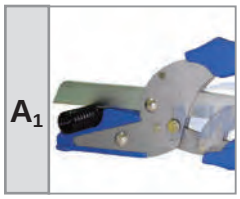
Body Rubber Seal Sealing Nut

MULTI-CUTTER

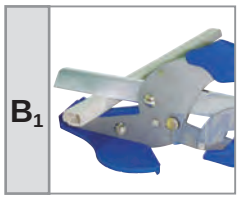
GIT-302

- Carbon steel body with phosphatic finishing
- SK-5 carbon steel blade with HRC 54°±2° heat treatment, chrome-plated, thickness:3mm
- Cutting board material: Polyamide with 45~50% Fiber
- Applicable to cut all angled objects
- Multi-purpose for household and other special use
- With lock latch
- Bolt and spanner is enclosed for replacing the blade
- Nontoxic handle with environmental concept
- Max. operating diameter: 80 mm (3.15 inch)
- Features: 1.Lever editing
  2. Effort saving 25~30%

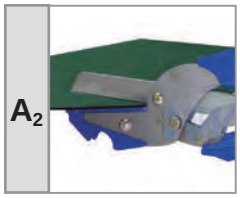




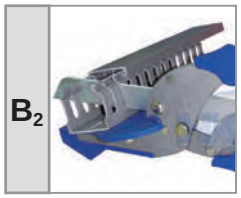
Apply to use on flexible conduit or PVC hose



It cuts easily the braided hose, water pipe, anti-pressure pipe and raceway



It perfectly cuts the cardboard or large sized flexible conduit



Perfect to cut angled objects (0°~45°), angle engraving on two side for both with left and right hands user

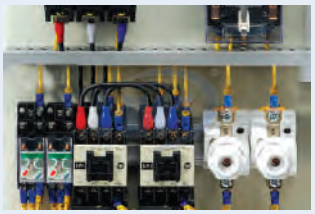
WIRING DUCT CUTTER

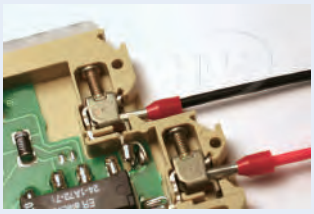
GIT-301

- Unique force-saving design, enable to cut stiff object
- User-friendly, only pull the handle and fix the object, then continue the force till the object is cut-off
- Stainless steel blade increases the life span when in use
- Blade: Molybdenum vanadium stainless steel
- Handle: Alloy aluminum ADC-12
- Max. operating diameter: 38 mm (1.50 inch)

WIRE TERMINATION





INTRODUCTION OF WIRE CONNECTORS

Hua Wei is the leader in providing a wide range of connectors suitable for the majority of all applications. In fact, the high quality, easy-to-use, versatile connectors from Hua Wei have been greatly used in different industries and different continents. Whatever the application - commercial, industrial, OEM, utility, residential, communications - and whatever the voltage - low, medium or high - we have the right connector for you.

With the full range of connectors, Hua Wei offers a complete wire connection system:

- Connectors for wire/cables from 8 through 22 AWG
- Winged, non-winged, grounding, high-temperature and close-end wire connectors
- Standard and unique products for specific applications
- Products for harsh or ambient environments
- Complete range of tools for close-end crimp connectors

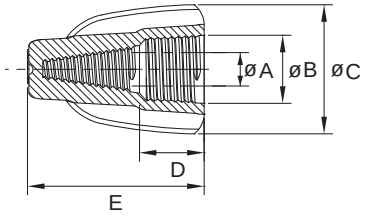
Termination Systems Capabilites

Features	Benefits
• Big wings with molded vertical ribs	Provide a secure grip for more torque on maximum wire combinations
• Color coded shells	Instant identification and selection of the wire connectors
• High conductivity square-wire spring and metal tubes	Superior conductivity and low contact resistance with a strong connection
• Easy entry funnel design	Avoid wire hang up and allows fast and secure insertion of the conductor
• Thermoplastic insulation materials	Tough, UL 94-V2 flame-retardant shell rated at 105°C (221°F) Ideal for harsh environments, excellent chemical, impact and abrasion resistance
• Eletro-tin plating	Maximum corrosion resistance
• Specifications	According to UL specifications and RoHS compliance
• Dedicated tooling range	Reliable and high quality crimps, for all kind of close-end crimp connectors

Updated 2025/4/11

W SERIES WINGED WIRE CONNECTORS

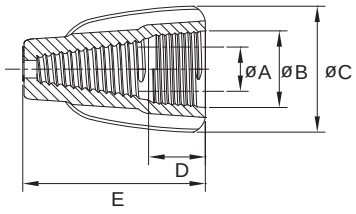
- 5 color-coded models cover a full range of wire sizes from 18 through 8 AWG
- Big wings with molded vertical ribs provide a secure grip for more torque on maximum wire combinations
- Fixed, square-wire spring maintains a strong grip that wire connections will not relax over time
- No pre-twisting required - positive grip design provides fast, easy installation
- Deep skirt helps protect against flash-over and turned-back strands for maximum dielectric protection
- Tough, UL94V-2 flame-retardant shell rated at 105°C (221°F)
- UL Listed to 486C and comply with Federal Specification W-S-610E
- Material: UL approved PP, steel spring



Part No.	Temp Rating	Voltage	Dimension mm (inch)					Suitable Wire AWG	Wire Strip Length mm (inch)	Color
			A	B	C	D	E			
W1	105°C (221°F)	600V	ø6.7 (0.26)	ø10.0 (0.39)	ø19.0 (0.75)	8.7 (0.34)	25.9 (1.02)	18-10	14.0 (0.55)	Yellow
W2	105°C (221°F)	600V	ø7.8 (0.31)	ø11.2 (0.44)	ø19.0 (0.75)	8.6 (0.34)	28.9 (1.14)	18-8	14.0 (0.55)	Tan
W3	105°C (221°F)	600V	ø9.4 (0.37)	ø13.3 (0.52)	ø22.9 (0.90)	9.2 (0.36)	31.9 (1.26)	18-8	12.0 (0.47)	Red
W4	105°C (221°F)	600V	ø10.5 (0.41)	ø14.5 (0.57)	ø25.1 (0.99)	9.6 (0.38)	32.8 (1.29)	18-10	14.0 (0.55)	Grey
W5	105°C (221°F)	600V	ø12.8 (0.50)	ø17.5 (0.69)	ø31.8 (1.25)	12.5 (0.49)	40.2 (1.58)	12-8	20.0 (0.79)	Blue

WINGED GROUNDING WIRE CONNECTORS

- Designed for making ground connections
- Big wings with molded vertical ribs provide a secure grip for more torque on maximum wire combinations
- Fixed, square-wire spring maintains a strong grip that wire connections will not relax over time
- Tough, UL94V-2 flame-retardant shell
- UL Listed to 467 and complies with Federal Specification W-S-610E
- Material: UL approved PP, steel spring

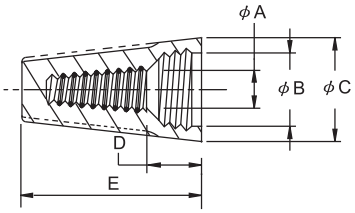


Part No.	Temp Rating	Voltage	Dimension mm (inch)					Suitable Wire AWG	Wire Strip Length mm (inch)	Color
			A	B	C	D	E			
WG	105°C (221°F)	600V	ø9.4 (0.37)	ø12.2 (0.48)	ø19.9 (0.78)	9.1 (0.36)	28.9 (1.14)	14-10	12.0 (0.47)	Green

Updated 2025/4/11

E SERIES WIRE CONNECTORS

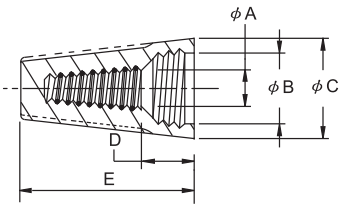
- Five color-coded models cover a full range of wire sizes from 22-10 AWG
- Fixed, square-wire spring maintains a strong grip that wire connections will not relax over time
- No pre-twisting required - positive grip design provides fast, easy installation
- Deep, wide skirt helps protect against flash-over and turned-back strands for maximum dielectric protection
- Tough, UL94V-2 flame-retardant shell rated at 105°C (221°F)
- UL Listed to 486C and comply with Federal Specification W-S-610E
- Material: UL approved PP, steel spring



Part No.	Temp Rating	Voltage	Dimension mm (inch)					Suitable Wire AWG	Wire Strip Length mm (inch)	Color
			A	B	C	D	E			
E1	105°C (221°F)	300V	ø5.0 (0.20)	ø6.0 (0.24)	ø8.5 (0.33)	3.5 (0.14)	14.7 (0.58)	22-18	9.0 (0.35)	Grey
E2	105°C (221°F)	300V	ø6.0 (0.24)	ø7.5 (0.30)	ø10.1 (0.40)	6.5 (0.26)	17.5 (0.69)	22-14	12.0 (0.47)	Blue
E3	105°C (221°F)	600V	ø6.2 (0.24)	ø8.2 (0.32)	ø11.2 (0.44)	8.0 (0.31)	21.4 (0.84)	22-14	12.5 (0.49)	Orange
E4	105°C (221°F)	600V	ø8.7 (0.34)	ø10.5 (0.41)	ø13.7 (0.54)	7.5 (0.30)	23.6 (0.93)	18-10	13.0 (0.51)	Yellow
E6	105°C (221°F)	600V	ø9.3 (0.37)	ø13.2 (0.52)	ø16.0 (0.63)	10.1 (0.40)	26.0 (1.02)	22-10	14.0 (0.55)	Red

E SERIES HIGH TEMPERATURE WIRE CONNECTORS

- Black, thermoplastic shell designed to be used in high-wattage light fixtures and signs where the extreme heat build-up commonly found
- Four models to cover wire ranges from 22 through 10 AWG
- Material: Polyamide 6,6, heat-resistant



Part No.	Temp Rating	Voltage	Dimension mm (inch)					Suitable Wire AWG	Wire Strip Length mm (inch)	Color
			A	B	C	D	E			
E1B	180°C (356°F)	300V	ø5.0 (0.20)	ø6.0 (0.24)	ø8.5 (0.33)	3.5 (0.14)	14.7 (0.58)	22-18	9.0 (0.35)	Black
E2B	180°C (356°F)	300V	ø6.0 (0.24)	ø7.5 (0.30)	ø10.1 (0.40)	6.5 (0.26)	17.5 (0.69)	22-14	12.0 (0.47)	Black
E3B	180°C (356°F)	600V	ø6.2 (0.24)	ø8.2 (0.32)	ø11.2 (0.44)	8.0 (0.31)	21.4 (0.84)	22-14	12.5 (0.49)	Black
E4B	180°C (356°F)	600V	ø8.7 (0.34)	ø10.5 (0.41)	ø13.7 (0.54)	7.5 (0.30)	23.6 (0.93)	18-10	13.0 (0.51)	Black

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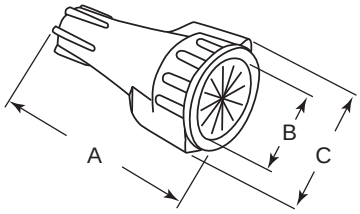
WATERPROOF WIRE CONNECTORS

- Tough thermoplastic, UL 94V-2 flame-retardant shell for 105ºF (221ºC).
- Rated to 600V max.
- Screw-on wire connectors pre-filled with dielectric silicone sealant. Comply with UL standard.
- Waterproof, dustproof and corrosion proof.
- For use in dry , damp, wet, bury locations.Not for use in continual submersion applications .One time use only. Do not Reuse Connector.
- Easy to use wire connectors nuts.
- Material: Shell - Polypropylene (PP). Spring - calvanized carbon steel. Fillers - dielectric silicone sealant.



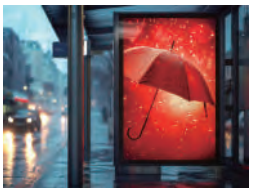
IP68

Part No.	Temp Rating	Voltage	Dimension mm (inch)			Suitable Wire AWG	Color
			A	B	C		
R3-R	105°C (221°F)	600V	40.9 (1.61)	ø16.5 (0.65)	ø25.2 (0.99)	20-10	Blue/Red
R6-R	105°C (221°F)	600V	47.2 (1.86)	ø16.5 (0.65)	ø26.5 (1.04)	20-8	Blue/Black

Applications:

- Outdoor lighting and signage
- Outdoor power outlets
- Sump and well pump installations
- Basement, garage and car-port circuits
- Bathroom/spa vent fans
- Security systems and lighting
- Irrigation systems
- Marine shore power and dock lighting
- HVAC systems


HVAC systems


Outdoor lighting and signage


Irrigation systems

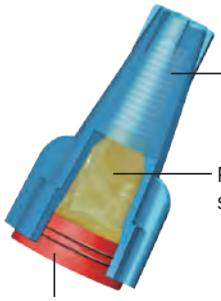

Marine shore power

Easy to Use

Strip the wire with the lead for 13 ~ 16mm (0.51 ~ 0.63 inch).

Insert the spliced wire until the wire touches the bottom of the wire connector.

Turn clockwise until the wire is very tight with at least 2 twists visible



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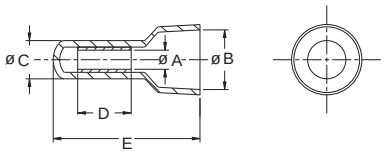
C SERIES CLOSE-END CRIMP CONNECTORS

- Four models cover a wide range of wire combinations from 22 AWG strands through 10 AWG stranded
- Compact design fits easily into tight locations
- Flared skirt ensures easily wire entry and protects against turned-back strands
- UL Listed for 300V maximum building wiring; temperature rated at 105°C (221°F) maximum
- P/N with postfix V0 means the shell is UL94V-0 flame-retardant
- P/N with postfix "-L" means the tube is made of aluminum
- Material: UL approved 94V-2 Polyamide 6,6, copper tube or aluminum tube



Part No.	Temp Rating	Voltage	Dimension mm (inch)					Suitable Wire AWG	Wire Strip Length mm (inch)	Color	Suitable Crimping Tools
			A	B	C	D	E				
C3	105°C (221°F)	300V	ø2.6 (0.10)	ø7.6 (0.30)	ø5.0 (0.20)	6.8 (0.27)	18.0 (0.71)	22-16	16.0 (0.63)	Natural	GIT-517C1
C4	105°C (221°F)	300V	ø3.2 (0.13)	ø7.6 (0.30)	ø5.8 (0.23)	6.8 (0.27)	20.4 (0.80)	22-14	16.0 (0.63)	Natural	
C5	105°C (221°F)	300V	ø4.3 (0.17)	ø10.3 (0.41)	ø7.0 (0.28)	7.8 (0.31)	24.8 (0.98)	22-10	20.0 (0.79)	Natural	
C8	105°C (221°F)	300V	ø5.0 (0.20)	ø12.2 (0.48)	ø9.2 (0.36)	8.8 (0.35)	27.0 (1.06)	20-10	21.0 (0.83)	Natural	GIT-517C5
C3-L	105°C (221°F)	300V	ø2.6 (0.10)	ø7.6 (0.30)	ø5.0 (0.20)	6.8 (0.27)	18.0 (0.71)	22-16	16.0 (0.63)	Natural	GIT-517C1
C4-L	105°C (221°F)	300V	ø3.2 (0.13)	ø7.6 (0.30)	ø5.8 (0.23)	6.8 (0.27)	20.4 (0.80)	22-14	16.0 (0.63)	Natural	
C5-L	105°C (221°F)	300V	ø4.3 (0.17)	ø10.3 (0.41)	ø7.0 (0.28)	7.8 (0.31)	24.8 (0.98)	22-10	20.0 (0.79)	Natural	
C3V0	105°C (221°F)	300V	ø2.6 (0.10)	ø7.6 (0.30)	ø5.0 (0.20)	6.8 (0.27)	18.0 (0.71)	22-16	16.0 (0.63)	White	
C4V0	105°C (221°F)	300V	ø3.2 (0.13)	ø7.6 (0.30)	ø5.8 (0.23)	6.8 (0.27)	20.4 (0.80)	22-14	16.0 (0.63)	White	
C5V0	105°C (221°F)	300V	ø4.3 (0.17)	ø10.3 (0.41)	ø7.0 (0.28)	7.8 (0.31)	24.8 (0.98)	22-10	20.0 (0.79)	White	
C3-LV0	105°C (221°F)	300V	ø2.6 (0.10)	ø7.6 (0.30)	ø5.0 (0.20)	6.8 (0.27)	18.0 (0.71)	22-16	16.0 (0.63)	White	
C4-LV0	105°C (221°F)	300V	ø3.2 (0.13)	ø7.6 (0.30)	ø5.8 (0.23)	6.8 (0.27)	20.4 (0.80)	22-14	16.0 (0.63)	White	
C5-LV0	105°C (221°F)	300V	ø4.3 (0.17)	ø10.3 (0.41)	ø7.0 (0.28)	7.8 (0.31)	24.8 (0.98)	22-10	20.0 (0.79)	White	

Updated 2025/4/11

INTRODUCTION OF WIRE CONNECTORS

Features of Hua Wei's Cord-End Terminals

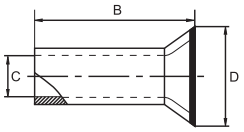
- Applicable for wires from 0.25 mm^2 to 150 mm^2
- Included un-insulated, insulated single wire and insulated twin wires cord-end terminals
- Comply to related standard and satisfy all kinds of applications
- Applied to different hostile environment
- Ergonomical ratchet tools and effort-saving hydraulic pressure tools are available

Hua Wei's Cord-End Terminals Provide Most Efficient Termination Solution

Features	Benefits
• High conductivity electrolytic copper	Superior conductivity and low contact resistance with a strong connection
• Eletro-tin plating	Maximum corrosion resistance
• Brazed seam	No barrel separation during crimping
• The contact area on the terminal is harder than the crimp area	Better resistance to mechanical deformations
• Easy entry funnel design	Fast and secure insertion of the conductor
• Color coded insulators according to DIN cable size	Instant identification and selection of the terminal
• PA insulation materials	+85°C / +105°C, UL94V-2 Ideal for harsh environments, excellent chemical, impact and abrasion resistance
• Size marking	Clear and easy identification of the terminal
• Specifications	All in accorance to DIN specifications
• Choice of the connector	Reliable and high quality crimps, for all kind of volumes

UN-INSULATED CORD-END TERMINALS

- Designed with a seamless barrel to contain loose wire strands for superior terminations
- Ease of inserting wire into terminal block
- Meets DIN standards for wire containment
- Suitable for limited space panel applications
- Multiple pin lengths available for a variety of terminal blocks
- Material: Copper tube with tin plated



Part No.	Conductor		Dimension mm (inch)			Tools
	sq. mm.	AWG	B	C	D	
CN005006	0.50	22-20	6.0 (0.24)	1.0 (0.04)	2.1 (0.08)	GIT-510 GIT-516E1
CN005008	0.50	22-20	8.0 (0.31)	1.0 (0.04)	2.1 (0.08)	
CN005010	0.50	22-20	10.0 (0.39)	1.0 (0.04)	2.1 (0.08)	
CN007506	0.75	20-19	6.0 (0.24)	1.2 (0.05)	2.3 (0.09)	
CN007508	0.75	20-19	8.0 (0.31)	1.2 (0.05)	2.3 (0.09)	
CN007510	0.75	20-19	10.0 (0.39)	1.2 (0.05)	2.3 (0.09)	
CN010006	1.00	18	6.0 (0.24)	1.4 (0.06)	2.5 (0.10)	
CN010008	1.00	18	8.0 (0.31)	1.4 (0.06)	2.5 (0.10)	
CN010010	1.00	18	10.0 (0.39)	1.4 (0.06)	2.5 (0.10)	
CN010012	1.00	18	12.0 (0.47)	1.4 (0.06)	2.5 (0.10)	
CN015007	1.50	16	7.0 (0.28)	1.7 (0.07)	2.8 (0.11)	
CN015008	1.50	16	8.0 (0.31)	1.7 (0.07)	2.8 (0.11)	
CN015010	1.50	16	10.0 (0.39)	1.7 (0.07)	2.8 (0.11)	
CN015012	1.50	16	12.0 (0.47)	1.7 (0.07)	2.8 (0.11)	
CN025007	2.50	14	7.0 (0.28)	2.2 (0.09)	3.4 (0.13)	
CN025008	2.50	14	8.0 (0.31)	2.2 (0.09)	3.4 (0.13)	
CN025010	2.50	14	10.0 (0.39)	2.2 (0.09)	3.4 (0.13)	
CN025012	2.50	14	12.0 (0.47)	2.2 (0.09)	3.4 (0.13)	
CN025018	2.50	14	18.0 (0.71)	2.2 (0.09)	3.4 (0.13)	
CN040008	4.00	12	8.0 (0.31)	2.8 (0.11)	4.0 (0.16)	GIT-516E1
CN040009	4.00	12	9.0 (0.35)	2.8 (0.11)	4.0 (0.16)	
CN040010	4.00	12	10.0 (0.39)	2.8 (0.11)	4.0 (0.16)	
CN040012	4.00	12	12.0 (0.47)	2.8 (0.11)	4.0 (0.16)	GIT-516E1
CN040015	4.00	12	15.0 (0.59)	2.8 (0.11)	4.0 (0.16)	
CN040018	4.00	12	18.0 (0.71)	2.8 (0.11)	4.0 (0.16)	
CN060010	6.00	10	10.0 (0.39)	3.5 (0.14)	4.7 (0.19)	GIT-516E2
CN060012	6.00	10	12.0 (0.47)	3.5 (0.14)	4.7 (0.19)	
CN060015	6.00	10	15.0 (0.59)	3.5 (0.14)	4.7 (0.19)	
CN060018	6.00	10	18.0 (0.71)	3.5 (0.14)	4.7 (0.19)	

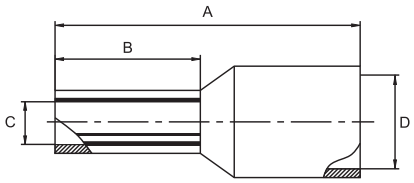
UN-INSULATED CORD-END TERMINALS

Part No.	Conductor		Dimension mm (inch)			Tools
	sq. mm.	AWG	B	C	D	
CN100012	10.00	8	12.0 (0.47)	4.5 (0.18)	5.8 (0.23)	GIT-516E2 GIT-516E3 GIT-518
CN100015	10.00	8	15.0 (0.59)	4.5 (0.18)	5.8 (0.23)	
CN100018	10.00	8	18.0 (0.71)	4.5 (0.18)	5.8 (0.23)	
CN160012	16.00	6	12.0 (0.47)	5.8 (0.23)	7.5 (0.30)	
CN160015	16.00	6	15.0 (0.59)	5.8 (0.23)	7.5 (0.30)	
CN160018	16.00	6	18.0 (0.71)	5.8 (0.23)	7.5 (0.30)	
CN250015	25.00	4	15.0 (0.59)	7.3 (0.29)	9.5 (0.37)	GIT-516E3 GIT-516E4 GIT-518
CN250016	25.00	4	16.0 (0.63)	7.3 (0.29)	9.5 (0.37)	
CN250018	25.00	4	18.0 (0.71)	7.3 (0.29)	9.5 (0.37)	
CN250020	25.00	4	20.0 (0.79)	7.3 (0.29)	9.5 (0.37)	
CN250022	25.00	4	22.0 (0.87)	7.3 (0.29)	9.5 (0.37)	
CN350016	35.00	2	16.0 (0.63)	8.3 (0.33)	11.0 (0.43)	GIT-516E4 GIT-518
CN350018	35.00	2	18.0 (0.71)	8.3 (0.33)	11.0 (0.43)	
CN350020	35.00	2	20.0 (0.79)	8.3 (0.33)	11.0 (0.43)	
CN350025	35.00	2	25.0 (0.98)	8.3 (0.33)	11.0 (0.43)	
CN500018	50.00	1/0	18.0 (0.71)	10.3 (0.41)	13.0 (0.51)	
CN500020	50.00	1/0	20.0 (0.79)	10.3 (0.41)	13.0 (0.51)	
CN500022	50.00	1/0	22.0 (0.87)	10.3 (0.41)	13.0 (0.51)	
CN500025	50.00	1/0	25.0 (0.98)	10.3 (0.41)	13.0 (0.51)	
CN700022	70.00	2/0	22.0 (0.87)	13.5 (0.53)	15.3 (0.60)	GIT-518
CN700025	70.00	2/0	25.0 (0.98)	13.5 (0.53)	15.3 (0.60)	
CN700032	70.00	2/0	32.0 (1.26)	13.5 (0.53)	15.3 (0.60)	
CN950025	95.00	3/0	25.0 (0.98)	14.7 (0.58)	16.6 (0.65)	
CN950032	95.00	3/0	32.0 (1.26)	14.7 (0.58)	16.6 (0.65)	
CN120030	120.00	4/0	30.0 (1.18)	16.7 (0.66)	18.6 (0.73)	
CN120032	120.00	4/0	32.0 (1.26)	16.7 (0.66)	18.6 (0.73)	
CN120034	120.00	4/0	34.0 (1.34)	16.7 (0.66)	18.6 (0.73)	
CN150032	150.00	250/300	32.0 (1.26)	19.5 (0.77)	21.5 (0.85)	
CN150038	150.00	250/300	38.0 (1.50)	19.5 (0.77)	21.5 (0.85)	

* DIN 46228/1

CORD-END TERMINALS

- Insulation housing conforms to DIN color requirements
- Meets DIN standards for single wire containment
- Funnel entry for faster insertion and lower installed cost
- Designed with a seamless barrel to contain loose wire strands for superior terminations
- Ease of inserting wire into terminal block
- Suitable for limited space panel applications
- Multiple pin lengths available for a variety of terminal blocks
- Material: Copper tube with tin plated end sleeves with insulation Polyamide 6,6
- Temperature range: Up to 105°C (221°F)



Color (1)		Color (2)		Color DIN46228/4		Conductor sq. mm. (AWG)	Dimension mm (inch)				Tools
Part No. (W system)		Part No. (T system)		Part No. (DIN system)			A	B	C	D	
CE002506W	Light Blue	CE002506T	Violet			0.25 (26-24)	10.0 (0.39)	6.0 (0.24)	0.8 (0.03)	1.9 (0.07)	GIT-510
CE002508W	Light Blue	CE002508T	Violet			0.25 (26-24)	12.0 (0.47)	8.0 (0.31)	0.8 (0.03)	1.9 (0.07)	
CE003406W	Turquoise	CE003406T	Pink			0.34 (24-22)	10.0 (0.39)	6.0 (0.24)	0.8 (0.03)	1.9 (0.07)	
CE003408W	Turquoise	CE003408T	Pink			0.34 (24-22)	12.0 (0.47)	8.0 (0.31)	0.8 (0.03)	1.9 (0.07)	
CE005006W	Orange	CE005006T	White	CE005006D	White	0.50 (22-20)	12.0 (0.47)	6.0 (0.24)	1.0 (0.04)	2.6 (0.10)	GIT-510 GIT-516E1
CE005008W	Orange	CE005008T	White	CE005008D	White	0.50 (22-20)	14.0 (0.55)	8.0 (0.31)	1.0 (0.04)	2.6 (0.10)	
CE005010W	Orange	CE005010T	White	CE005010D	White	0.50 (22-20)	16.0 (0.63)	10.0 (0.39)	1.0 (0.04)	2.6 (0.10)	
CE007506W	White	CE007506T	Light Blue	CE007506D	Grey	0.75 (20-19)	12.0 (0.47)	6.0 (0.24)	1.2 (0.05)	2.8 (0.11)	
CE007508W	White	CE007508T	Light Blue	CE007508D	Grey	0.75 (20-19)	14.0 (0.55)	8.0 (0.31)	1.2 (0.05)	2.8 (0.11)	
CE007510W	White	CE007510T	Light Blue	CE007510D	Grey	0.75 (20-19)	16.0 (0.63)	10.0 (0.39)	1.2 (0.05)	2.8 (0.11)	
CE007512W	White	CE007512T	Light Blue	CE007512D	Grey	0.75 (20-19)	18.0 (0.71)	12.0 (0.47)	1.2 (0.05)	2.8 (0.11)	
CE010006W	Yellow	CE010006T	Red	CE010006D	Red	1.00 (18)	12.0 (0.47)	6.0 (0.24)	1.4 (0.06)	3.0 (0.12)	
CE010008W	Yellow	CE010008T	Red	CE010008D	Red	1.00 (18)	14.0 (0.55)	8.0 (0.31)	1.4 (0.06)	3.0 (0.12)	
CE010010W	Yellow	CE010010T	Red	CE010010D	Red	1.00 (18)	16.0 (0.63)	10.0 (0.39)	1.4 (0.06)	3.0 (0.12)	
CE010012W	Yellow	CE010012T	Red	CE010012D	Red	1.00 (18)	18.0 (0.71)	12.0 (0.47)	1.4 (0.06)	3.0 (0.12)	
CE015008W	Red	CE015008T	Black	CE015008D	Black	1.50 (16)	14.0 (0.55)	8.0 (0.31)	1.7 (0.07)	3.5 (0.14)	
CE015010W	Red	CE015010T	Black	CE015010D	Black	1.50 (16)	16.0 (0.63)	10.0 (0.39)	1.7 (0.07)	3.5 (0.14)	
CE015012W	Red	CE015012T	Black	CE015012D	Black	1.50 (16)	18.0 (0.71)	12.0 (0.47)	1.7 (0.07)	3.5 (0.14)	
CE015018W	Red	CE015018T	Black	CE015018D	Black	1.50 (16)	24.0 (0.94)	18.0 (0.71)	1.7 (0.07)	3.5 (0.14)	

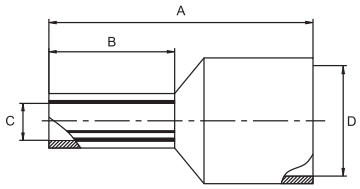
CORD-END TERMINALS

Color (1)		Color (2)		Color DIN46228/4		Conductor sq. mm. (AWG)	Dimension mm (inch)				Tools
Part No. (W system)		Part No. (T system)		Part No. (DIN system)			A	B	C	D	
CE025008W	Blue	CE025008T	Grey	CE025008D	Blue	2.50 (14)	14.0 (0.55)	8.0 (0.31)	2.2 (0.09)	4.2 (0.17)	GIT-510 GIT-516E1
CE025010W	Blue	CE025010T	Grey	CE025010D	Blue	2.50 (14)	16.0 (0.63)	10.0 (0.39)	2.2 (0.09)	4.2 (0.17)	
CE025012W	Blue	CE025012T	Grey	CE025012D	Blue	2.50 (14)	18.0 (0.71)	12.0 (0.47)	2.2 (0.09)	4.2 (0.17)	
CE025018W	Blue	CE025018T	Grey	CE025018D	Blue	2.50 (14)	24.0 (0.94)	18.0 (0.71)	2.2 (0.09)	4.2 (0.17)	
CE040010W	Grey	CE040010T	Orange	CE040010D	Grey	4.00 (12)	17.0 (0.67)	10.0 (0.39)	2.8 (0.11)	4.8 (0.19)	GIT-516E1
CE040012W	Grey	CE040012T	Orange	CE040012D	Grey	4.00 (12)	20.0 (0.79)	12.0 (0.47)	2.8 (0.11)	4.8 (0.19)	
CE040018W	Grey	CE040018T	Orange	CE040018D	Grey	4.00 (12)	26.0 (1.02)	18.0 (0.71)	2.8 (0.11)	4.8 (0.19)	
CE060012W	Black	CE060012T	Green	CE060012D	Yellow	6.00 (10)	20.0 (0.79)	12.0 (0.47)	3.5 (0.14)	6.3 (0.25)	GIT-516E2
CE060018W	Black	CE060018T	Green	CE060018D	Yellow	6.00 (10)	26.0 (1.02)	18.0 (0.71)	3.5 (0.14)	6.3 (0.25)	
CE100012W	Ivory	CE100012T	Brown	CE100012D	Red	10.00 (8)	22.0 (0.87)	12.0 (0.47)	4.5 (0.18)	7.6 (0.30)	GIT-516E2 GIT-516E3 GIT-518
CE100018W	Ivory	CE100018T	Brown	CE100018D	Red	10.00 (8)	28.0 (1.10)	18.0 (0.71)	4.5 (0.18)	7.6 (0.30)	
CE160012W	Green	CE160012T	Ivory	CE160012D	Blue	16.00 (6)	22.0 (0.87)	12.0 (0.47)	5.8 (0.23)	8.8 (0.35)	
CE160018W	Green	CE160018T	Ivory	CE160018D	Blue	16.00 (6)	28.0 (1.10)	18.0 (0.71)	5.8 (0.23)	8.8 (0.35)	
CE250016W	Brown	CE250016T	Black	CE250016D	Yellow	25.00 (4)	30.0 (1.18)	16.0 (0.63)	7.3 (0.29)	11.2 (0.44)	GIT-516E3 GIT-516E4 GIT-518
CE250018W	Brown	CE250018T	Black	CE250018D	Yellow	25.00 (4)	32.0 (1.26)	18.0 (0.71)	7.3 (0.29)	11.2 (0.44)	
CE250022W	Brown	CE250022T	Black	CE250022D	Yellow	25.00 (4)	36.0 (1.42)	22.0 (0.87)	7.3 (0.29)	11.2 (0.44)	
CE350016W	Beige	CE350016T	Red	CE350016D	Red	35.00 (2)	30.0 (1.18)	16.0 (0.63)	8.3 (0.33)	12.7 (0.50)	GIT-516E4 GIT-518
CE350018W	Beige	CE350018T	Red	CE350018D	Red	35.00 (2)	32.0 (1.26)	18.0 (0.71)	8.3 (0.33)	12.7 (0.50)	
CE350025W	Beige	CE350025T	Red	CE350025D	Red	35.00 (2)	39.0 (1.54)	25.0 (0.98)	8.3 (0.33)	12.7 (0.50)	
CE500020W	Olive	CE500020T	Blue	CE500020D	Blue	50.00 (1/0)	36.0 (1.42)	20.0 (0.79)	10.3 (0.41)	15.0 (0.59)	
CE500025W	Olive	CE500025T	Blue	CE500025D	Blue	50.00 (1/0)	40.0 (1.57)	25.0 (0.98)	10.3 (0.41)	15.0 (0.59)	
CE700021W	Yellow	CE700021T	Yellow	CE700021D	Yellow	70.00 (2/0)	37.0 (1.46)	21.0 (0.83)	13.5 (0.53)	16.0 (0.63)	GIT-518
CE950025W	Red	CE950025T	Red	CE950025D	Red	95.00 (3/0)	44.0 (1.73)	25.0 (0.98)	14.7 (0.58)	18.0 (0.71)	
CE120027W	Blue	CE120027T	Blue	CE120027D	Blue	120.00 (4/0)	48.0 (1.89)	27.0 (1.06)	16.7 (0.66)	20.0 (0.79)	
CE150032W	Yellow	CE150032T	Yellow	CE150032D	Yellow	150.00 (250/300)	58.0 (2.28)	32.0 (1.26)	19.5 (0.77)	23.0 (0.91)	

* DIN 46228/4

TWIN CORD-END TERMINALS

- Meets DIN standards for twin wire containment
- Insulation housing conforms to DIN color requirements
- Funnel entry for faster insertion and lower installed cost
- Designed with a seamless barrel to contain loose wire strands for superior terminations
- Ease of inserting wire into terminal block
- Suitable for limited space panel applications
- Multiple pin lengths available for a variety of terminal blocks
- Material: Copper tube with tin plated end sleeves with insulation Polyamide 6,6
- Temperature range: Up to 105°C (221°F)



Color (1)		Color (2)		Color DIN46228/4		Conductor sq. mm. (AWG)	Dimension mm (inch)				Tools
Part No. (W system)		Part No. (T system)		Part No. (DIN system)			A	B	C	D	
CT205008W	Orange	CT205008T	White	CT205008D	White	2x0.50 (2x22-20)	15.0 (0.59)	8.0 (0.31)	1.5 (0.06)	4.7 (0.19)	GIT-510 GIT-516E1
CT207508W	White	CT207508T	Blue	CT207508D	Grey	2x0.75 (2x20-19)	15.0 (0.59)	8.0 (0.31)	1.8 (0.07)	5.0 (0.20)	
CT207510W	White	CT207510T	Blue	CT207510D	Grey	2x0.75 (2x20-19)	17.0 (0.67)	10.0 (0.39)	1.8 (0.07)	5.0 (0.20)	
CT210008W	Yellow	CT210008T	Red	CT210008D	Red	2x1.00 (2x18)	15.0 (0.59)	8.0 (0.31)	2.1 (0.08)	5.4 (0.21)	
CT210010W	Yellow	CT210010T	Red	CT210010D	Red	2x1.00 (2x18)	17.0 (0.67)	10.0 (0.39)	2.1 (0.08)	5.4 (0.21)	
CT215008W	Red	CT215008T	Black	CT215008D	Black	2x1.50 (2x16)	16.0 (0.63)	8.0 (0.31)	2.3 (0.09)	6.6 (0.26)	
CT215012W	Red	CT215012T	Black	CT215012D	Black	2x1.50 (2x16)	20.0 (0.79)	12.0 (0.47)	2.3 (0.09)	6.6 (0.26)	
CT225010W	Blue	CT225010T	Grey	CT225010D	Blue	2x2.50 (2x14)	18.5 (0.73)	10.0 (0.39)	2.8 (0.11)	7.8 (0.31)	GIT-516E1
CT225013W	Blue	CT225013T	Grey	CT225013D	Blue	2x2.50 (2x14)	21.5 (0.85)	13.0 (0.51)	2.8 (0.11)	7.8 (0.31)	
CT240012W	Grey	CT240012T	Orange	CT240012D	Grey	2x4.00 (2x12)	23.0 (0.91)	12.0 (0.47)	3.7 (0.15)	8.8 (0.35)	GIT-516E2
CT260014W	Black	CT260014T	Green	CT260014D	Yellow	2x6.00 (2x10)	26.0 (1.02)	14.0 (0.55)	4.8 (0.19)	10.0 (0.39)	GIT-516E2 GIT-516E3 GIT-518
CT210014W	Ivory	CT210014T	Brown	CT210014D	Red	2x10.00 (2x8)	26.5 (1.04)	14.0 (0.55)	6.4 (0.25)	12.8 (0.50)	
CT216014W	Green	CT216014T	Ivory	CT216014D	Blue	2x16.00 (2x6)	31.5 (1.24)	14.0 (0.55)	8.3 (0.33)	18.6 (0.73)	GIT-516E3 GIT-516E4 GIT-518

* DIN 46228/4

INTRODUCTION OF PUSH-IN CONNECTORS

Hua Wei's push-in connectors are designed for various wire types – solid, stranded, and flexible – from 28 to 10 AWG, offering the perfect fit for every wiring need. With color-coded precision, identifying connections is a walk in the park, while the compact size ensures a seamless fit into tight spaces. Ideal for various applications, including lighting installations, pre-fabricated wiring systems, and branch circuit wiring.

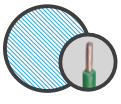
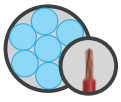
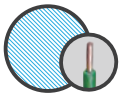
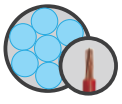
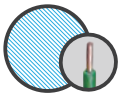
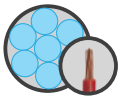
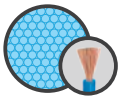
Say goodbye to complicated twisting – push your way to rapid, reliable connections with our compact and clear choice push-in connectors. Your go-to solution for any splicing job, Hua Wei's push-in connectors redefine convenience in electrical installations.

Comply with the standard UL 486C.

Choose Efficiency
Choose Reliability
Choose Hua Wei's Push-in Connectors

Hua Wei Series Products are Complete and Feature Exceptional Qualities:

- The **PIC21 series** is the smallest and lightest on the market, suitable for use in narrow junction boxes.
- The **PIC33 series** is ergonomically designed, performing better on stranded wires.
- The **PIC35 series** uses double spring clips, ensuring greater safety and reliability.
- The **PIC86 series** is suitable for large wire diameters.
- The **PIL62 series** is compatible with both solid and flexible wires, including single-core, stranded, and fine-stranded wires. It provides a full alternative to traditional soldering and insulated tape methods. Wires can be easily removed and reused by simply lifting the lever, saving both time and effort while also being cost-effective.

Connector Type	 PIC21 series  PIC33 series  PIC35 series	 PIC86 series	 PIL62 series
Wire Type	 Solid Wire 22-12AWG  Stranded Wire 22-14AWG	 Solid Wire 22-12AWG  Stranded Wire 22-14AWG	 Solid Wire 22-12AWG  Stranded Wire 22-14AWG  Flexible Wire 28-14AWG

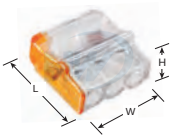
Updated 2025/4/25

PUSH-IN CONNECTORS

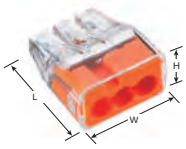
- Tool-free! No-Twist! Poke-in Wire Save Installation Time
- Simplified Design and Compact Size Helps in Tight Locations
- Check Port Design Provides Continuity Testing
- Secure Connection, Minimizing Unintentional Disconnection, and Restricting Pullouts
- Operating Temperature: 105ºC / 221ºF(UL) T85ºC / 185ºF (IEC/EN)
- HOUSING MATERIAL:

  PIC21 Series: Polycarbonate (PC), UL 94V-0
  PIC33 Series: Polycarbonate (PC), Polypropylene (PP), UL 94V-2
  PIC35 Series: Polycarbonate (PC), UL 94V-0
  PIC86 Series: Polycarbonate (PC), Polyamide (PA), UL 94V-2

PIC21 Series

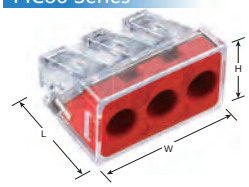


PIC33 Series



PIC35 Series

PIC86 Series



Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Height (H) mm (inch)	Rated Voltage(V)		Rated Current(A)	Solid Conductor Wire Range		Stranded Conductor Wire Range		Ports	Color
				UL	IEC/EN	IEC/EN	mm²	AWG	mm²	AWG		
PIC21 Series												
PIC21-2	16.0 (0.63)	10.5 (0.41)	7.5 (0.30)	600	450	24	0.5-2.5	22-12	0.5-2.5	22-14	2	Red
PIC21-3	16.0 (0.63)	15.0 (0.59)	7.5 (0.30)	600	450	24					3	Orange
PIC21-4	16.0 (0.63)	19.4 (0.76)	7.5 (0.30)	600	450	24					4	Yellow
PIC21-5	16.0 (0.63)	23.7 (0.93)	7.5 (0.30)	600	450	24					5	Grey
PIC21-6	16.0 (0.63)	28.2 (1.11)	7.5 (0.30)	600	450	24					6	Purple
PIC21-12	15.8 (0.62)	25.6 (1.01)	12.6 (0.50)	NA	450	24					12	Blue
PIC33 Series												
PIC33-2	18.5 (0.73)	11.1 (0.44)	9.4 (0.37)	600	450	24	0.5-4.0	22-12	0.5-2.5	22-14	2	Red
PIC33-3	18.5 (0.73)	15.5 (0.61)	9.4 (0.37)	600	450	24					3	Orange
PIC33-4	18.5 (0.73)	19.9 (0.78)	9.4 (0.37)	600	450	24					4	Yellow
PIC33-5	18.5 (0.73)	24.3 (0.96)	9.4 (0.37)	600	450	24					5	Blue
PIC35 Series												
PIC35-2	16.5 (0.65)	10.8 (0.43)	7.7 (0.30)	600	450	24	0.5-2.5	22-12	1.0-2.5	22-14	2	Yellow
PIC35-3	16.5 (0.65)	15.1 (0.59)	7.7 (0.30)	600	450	24					3	Orange
PIC35-4	16.5 (0.65)	19.4 (0.76)	7.7 (0.30)	600	450	24					4	Transparent
PIC35-5	16.5 (0.65)	23.7 (0.93)	7.7 (0.30)	600	450	24					5	Blue
PIC35-6	16.5 (0.65)	28.0 (1.10)	7.7 (0.30)	600	450	24					6	Purple
PIC35-8	16.5 (0.65)	36.6 (1.44)	7.7 (0.30)	600	450	24					8	Black
PIC86 Series												
PIC86-3	20.1 (0.79)	25.5 (1.00)	14.2 (0.56)	600	450	41	2.5-6.0	16-10	2.5-6.0	12-10	3	Red

Easy to Use:

STRIP » PUSH » CONNECT

APPLICATIONS:

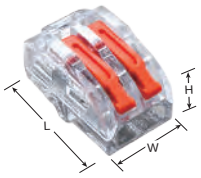
- For Grounding and Bonding Applications. Use in Building, Appliance, Lighting Wiring and Junction Boxes

Updated 2025/4/25

PUSH-IN LEVER CONNECTORS

- Tool-Free! No-Twist! Solder-Free! Time-Saving!
- Check Port Design Provides Continuity Testing
- Secure Connection, Minimizing Unintentional Disconnection, and Restricting Pullouts
- The PIL62 series is compatible with both solid and flexible wires, including single-core, stranded, and fine-stranded wires. It provides a full alternative to traditional soldering and insulated tape methods.
- Wires can be easily removed and reused by simply lifting the lever, saving both time and effort while also being cost-effective.
- Operating Temperature: 105ºC / 221ºF(UL) T85ºC / 185ºF (IEC/EN)
- HOUSING MATERIAL: PPolycarbonate (PC), Polyamide (PA), UL 94V-0

PIL62-2



PIL62-3

PIL62-5

Part No.	Length (L) mm (inch)	Width (W) mm (inch)	Height (H) mm (inch)	Rated Voltage(V)		Rated Current(A)	Solid Conductor Wire Range		Stranded Conductor Wire Range		Fine-stranded Conductor Wire Range		Ports	Color
				UL	IEC/EN	IEC/EN	mm²	AWG	mm²	AWG	mm²	AWG		
PIL62 Series														
PIL62-2	20.7 (0.81)	12.2 (0.48)	14.5 (0.57)	600	450	32	0.2-4.0	28-12	0.2-4.0	28-14	0.2-4.0	28-14	2	Transparent, Orange
PIL62-3	20.7 (0.81)	16.8 (0.66)	14.5 (0.57)	600	450	32							3	
PIL62-5	20.7 (0.81)	26.0 (1.02)	14.5 (0.57)	600	450	32							5	

Easy to Use:

STRIP » LIFT » INSERT » PRESS » REMOVE

APPLICATIONS:

- For Grounding and Bonding Applications. Use in Building, Appliance, Lighting Wiring and Junction Boxes

Lighting Industry

Furniture and Design Industry / Residential Junction Box Industry

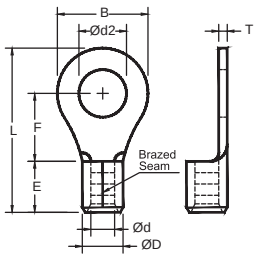
Commercial Maintenance Applications

HVAC Industry

Updated 2025/4/25

NON-INSULATED RING TERMINALS

- Brazed seam protects terminal barrel from splitting during the crimping process
- Material: Copper

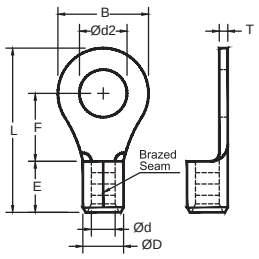


Part No.	Wire Range		Dimension mm (inch)								Stud Size	
	sq. mm.	AWG	B	Ød2	L	F	E	Ød	ØD	T	mm	inch
R1-3B	0.5-1.5	22-16	5.5 (0.22)	3.2 (0.13)	12.5 (0.49)	4.8 (0.19)	5.0 (0.20	1.7 (0.07)	3.4 (0.13)	0.75 (0.03)	M3	#4
R1-3.5B			5.5 (0.22)	3.7 (0.15)	12.5 (0.49)	4.8 (0.19)					M3.5	#6
R1-4B			8.0 (0.31)	4.3 (0.17)	16.0 (0.63)	7.0 (0.28)					M4	#8
R1-5B			8.0 (0.31)	5.3 (0.21)	16.0 (0.63)	7.0 (0.28)					M5	#10
R1-6B			11.6 (0.46)	6.4 (0.25)	21.9 (0.86)	11.1 (0.44)					M6	1/4
R1-8B			11.6 (0.46)	8.4 (0.33)	21.9 (0.86)	11.1 (0.44)					M8	5/16
R1-10B			13.6 (0.54)	10.5 (0.41)	25.7 (1.01)	13.9 (0.55)					M10	3/8
R1-12B			19.0 (0.75)	13.0 (0.51)	30.5 (1.2)	16.0 (0.63)					M12	1/2
R2-3B	1.5	16-14	6.6 (0.26)	3.2 (0.13)	12.6 (0.5)	4.3 (0.17)	5.0 (0.20)	2.3 (0.09)	4.1 (0.16)	0.8 (0.03)	M3	#4
R2-3.5B			6.6 (0.26)	3.7 (0.15)	12.6 (0.5)	4.3 (0.17)					M3.5	#6
R2-4B			8.5 (0.33)	4.3 (0.17)	17.0 (0.67)	7.8 (0.31)					M4	#8
R2-5B			9.5 (0.37)	5.3 (0.21)	17.0 (0.67)	7.3 (0.29)					M5	#10
R2-6B			12.0 (0.47)	6.4 (0.25)	22.0 (0.87)	11.0 (0.43)					M6	1/4
R2-8B			12.0 (0.47)	8.4 (0.33)	22.0 (0.87)	11.0 (0.43)					M8	5/16
R2-10B			13.6 (0.54)	10.5 (0.41)	25.7 (1.01)	13.9 (0.55)					M10	3/8
R2-12B			19.0 (0.75)	13.0 (0.51)	30.5 (1.2)	16.0 (0.63)					M12	1/2
R3-4B	2.5-4	14-12	8.0 (0.31)	4.3 (0.17)	17.8 (0.7)	7.8 (0.31)	6.0 (0.24)	2.9 (0.11)	5.1 (0.20)	1.0 (0.04)	M4	#8
R3-5B			8.0 (0.31)	5.3 (0.21)	17.8 (0.7)	7.8 (0.31)					M5	#10
R5-3.5B	4-6	12-10	7.2 (0.28)	3.7 (0.15)	15.5 (0.61)	5.9 (0.23)	6.0 (0.24)	3.4 (0.13)	5.6 (0.22)	1.0 (0.04)	M3.5	#6
R5-4B			9.5 (0.37)	4.3 (0.17)	19.0 (0.75)	8.3 (0.33)					M4	#8
R5-5B			9.5 (0.37)	5.3 (0.21)	19.0 (0.75)	8.3 (0.33)					M5	#10
R5-6B			12.0 (0.47)	6.4 (0.25)	22.5 (0.89)	10.5 (0.41)					M6	1/4
R5-8B			15.0 (0.59)	8.4 (0.33)	27.2 (1.07)	13.7 (0.54)					M8	5/16
R5-10B			15.0 (0.59)	10.5 (0.41)	27.2 (1.07)	13.7 (0.54)					M10	3/8
R5-12B			19.2 (0.76)	13.0 (0.51)	31.6 (1.24)	16.0 (0.63)					M12	1/2

Updated 2025/4/25

NON-INSULATED RING TERMINALS

- Brazed seam protects terminal barrel from splitting during the crimping process
- Material: Copper

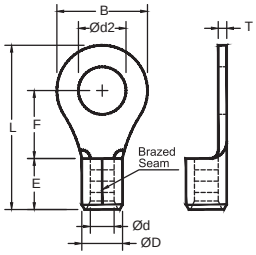


Part No.	Wire Range		Dimension mm (inch)								Stud Size	
	sq. mm.	AWG	B	Ød2	L	F	E	Ød	ØD	T	mm	inch
R8-4B	8	8	12.0 (0.47)	4.3 (0.17)	23.8 (0.94)	9.3 (0.37)	8.5 (0.33)	4.5 (0.18)	7.1 (0.28)	1.2 (0.05)	M4	#8
R8-5B			12.0 (0.47)	5.3 (0.21)	23.8 (0.94)	9.3 (0.37)					M5	#10
R8-6B			12.0 (0.47)	6.4 (0.25)	23.8 (0.94)	9.3 (0.37)					M6	1/4
R8-8B			15.0 (0.59)	8.4 (0.33)	29.8 (1.17)	13.8 (0.54)					M8	5/16
R8-10B			15.0 (0.59)	10.5 (0.41)	29.8 (1.17)	13.8 (0.54)					M10	3/8
R8-12B			20.0 (0.79)	13.0 (0.51)	33.5 (1.32)	15.0 (0.59)					M12	1/2
R14-10B	14	6	16.0 (0.63)	10.5 (0.41)	33.0 (1.3)	14.5 (0.57)	10.5 (0.41)	5.8 (0.23)	9.0 (0.35)	1.5 (0.06)	M10	3/8
R14-12B			22.0 (0.87)	13.0 (0.51)	41.0 (1.61)	19.5 (0.77)					M12	1/2
R22-5B	22	4	12.0 (0.47)	5.3 (0.21)	30.0 (1.18)	12.0 (0.47)	12.0 (0.47)	7.7 (0.30)	11.5 (0.45)	1.8 (0.07)	M5	#10
R22-6B			16.5 (0.65)	6.4 (0.25)	33.7 (1.33)	13.5 (0.53)					M6	1/4
R22-8B			16.5 (0.65)	8.4 (0.33)	33.7 (1.33)	13.5 (0.53)					M8	5/16
R22-10B			17.5 (0.69)	10.5 (0.41)	36.7 (1.44)	16.0 (0.63)					M10	3/8
R22-12B			22.0 (0.87)	13.0 (0.51)	42.5 (1.67)	19.5 (0.77)					M12	1/2
R38-6B	38	2	22.0 (0.87)	6.4 (0.25)	42.7 (1.68)	17.7 (0.7)	14.0 (0.55)	9.4 (0.37)	13.3 (0.52)	1.8 (0.07)	M6	1/4
R38-8B			22.0 (0.87)	8.4 (0.33)	42.7 (1.68)	17.7 (0.7)					M8	5/16
R38-10B			22.0 (0.87)	10.5 (0.41)	42.7 (1.68)	17.7 (0.7)					M10	3/8
R38-12B			22.0 (0.87)	13.0 (0.51)	42.7 (1.68)	17.7 (0.7)					M12	1/2

Updated 2025/4/25

GOLD PLATED NON INSULATED RING TERMINALS (BRAZED SEAM)

- Brazed seam protects terminal barrel from splitting during the crimping process
- Ring tongue design assures a secure connection in high vibration applications
- It has excellent electrical conductivity, strong corrosion resistance and oxidation resistance, and good stability
- Material: Copper with gold plating
- Terminals Soft Sleeves for Extra Quote



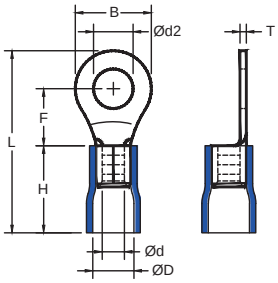
RoHS HF

Part No.	Wire Range		Dimension mm (inch)								Stud Size	
	sq. mm.	AWG	B	Ød2	L	F	E	Ød	ØD	T	mm	inch
GR1-3B	0.5-1.5	22-16	5.5 (0.22)	3.2 (0.13)	12.5 (0.49)	4.8 (0.19)	5.0 (0.2)	1.7 (0.07)	3.4 (0.13)	0.75 (0.03)	M3	#4
GR1-3.5B			6.6 (0.26)	3.7 (0.15)	14.6 (0.57)	6.3 (0.25)					M3.5	#6
GR1-4B			8.0 (0.31)	4.3 (0.17)	16.0 (0.63)	7.0 (0.28)					M4	#8
GR1-5B			8.0 (0.31)	5.3 (0.21)	16.0 (0.63)	7.0 (0.28)					M5	#10
GR1-6B			11.6 (0.46)	6.4 (0.25)	21.9 (0.86)	11.1 (0.44)					M6	1/4
GR1-8B			11.6 (0.46)	8.4 (0.33)	21.9 (0.86)	11.1 (0.44)					M8	5/16
GR1-10B			13.6 (0.54)	10.5 (0.41)	25.7 (1.01)	13.9 (0.55)					M10	3/8
GR1-12B			19 (0.75)	13.0 (0.51)	30.5 (1.20)	16.0 (0.63)					M12	1/2
GR2-3B	1.5-2.5	16-14	6.6 (0.26)	3.2 (0.13)	12.6 (0.50)	4.3 (0.17)	5.0 (0.2)	2.3 (0.09)	4.1 (0.16)	0.8 (0.03)	M3	#4
GR2-3.5B			6.6 (0.26)	3.7 (0.15)	14.6 (0.57)	6.3 (0.25)					M3.5	#6
GR2-4B			8.5 (0.33)	4.3 (0.17)	17.0 (0.67)	7.8 (0.31)					M4	#8
GR2-5B			9.5 (0.37)	5.3 (0.21)	17.0 (0.67)	7.3 (0.29)					M5	#10
GR2-6B			12.0 (0.47)	6.4 (0.25)	22.0 (0.87)	11.0 (0.43)					M6	1/4
GR2-8B			12.0 (0.47)	8.4 (0.33)	22.0 (0.87)	11.0 (0.43)					M8	5/16
GR2-10B			13.6 (0.54)	10.5 (0.41)	25.7 (1.01)	13.9 (0.55)					M10	3/8
GR2-12B			19 (0.75)	13.0 (0.51)	30.5 (1.20)	16.0 (0.63)					M12	1/2
GR3-4B	2.5-4	14-12	8.0 (0.31)	4.3 (0.17)	17.8 (0.7)	7.8 (0.31)	6.0 (0.24)	2.9 (0.11)	5.1 (0.2)	1.0 (0.04)	M4	#8
GR3-5B			8.0 (0.31)	5.3 (0.21)	17.8 (0.7)	7.8 (0.31)					M5	#10
GR3-6B			12.0 (0.47)	6.4 (0.25)	21.4 (0.84)	9.4 (0.37)					M6	1/4
GR3-8B			15.0 (0.59)	8.4 (0.33)	26.8 (1.06)	13.3 (0.52)					M8	5/16
GR3-10B			15.0 (0.59)	10.5 (0.41)	26.8 (1.06)	13.3 (0.52)					M10	3/8
GR3-12B			19.2 (0.76)	13.0 (0.51)	31.6 (1.24)	16.0 (0.63)					M12	1/2

Updated 2025/4/25

VINYL-INSULATED RING TERMINALS

- Insulation support helps to prevent wire damage in bending applications
- Copper tube with tin plated end sleeves
  with insulation PVC

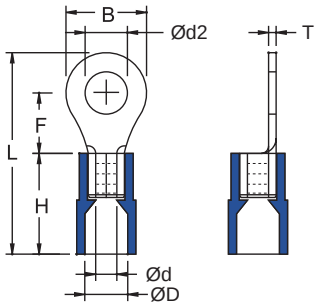


Part No.	Color	Wire Range		Dimension mm (inch)								Stud Size	
		sq. mm.	AWG	B	Ød2	L	F	H	Ød	ØD	T	mm	inch
VR1-3	Red	0.5-1.5	22-16	5.5 (0.22)	3.2 (0.13)	17.5 (0.69)	4.8 (0.19)	10.0 (0.39)	1.7 (0.07)	4.2 (0.17)	0.75 (0.03)	M3	#4
VR1-3.5				5.5 (0.22)	3.7 (0.15)	17.5 (0.69)	4.8 (0.19)					M3.5	#6
VR1-4				8.0 (0.31)	4.3 (0.17)	21.0 (0.83)	7.0 (0.28)					M4	#8
VR1-5				8.0 (0.31)	5.3 (0.21)	21.0 (0.83)	7.0 (0.28)					M5	#10
VR1-6				11.6 (0.46)	6.4 (0.25)	26.9 (1.06)	11.1 (0.44)					M6	1/4
VR1-8				11.6 (0.46)	8.4 (0.33)	26.9 (1.06)	11.1 (0.44)					M8	5/16
VR1-10				13.6 (0.54)	10.5 (0.41)	30.7 (1.21)	13.9 (0.55)					M10	3/8
VR1-12				19.0 (0.75)	13.0 (0.51)	35.6 (1.4)	16.0 (0.63)					M12	1/2
VR2-3	Blue	1.5-2.5	16-14	6.6 (0.26)	3.2 (0.13)	17.6 (0.69)	4.3 (0.17)	10.0 (0.39)	2.3 (0.09)	4.6 (0.18)	0.8 (0.03)	M3	#4
VR2-3.5				6.6 (0.26)	3.7 (0.15)	19.6 (0.77)	6.3 (0.25)					M3.5	#6
VR2-4				8.5 (0.33)	4.3 (0.17)	22 (0.87).0	7.8 (0.31)					M4	#8
VR2-5				9.5 (0.37)	5.3 (0.21)	22.0 (0.87)	7.3 (0.29)					M5	#10
VR2-6				12.0 (0.47)	6.4 (0.25)	27.0 (1.06)	11.0 (0.43)					M6	1/4
VR2-8				12.0 (0.47)	8.4 (0.33)	27.0 (1.06)	11.0 (0.43)					M8	5/16
VR2-10				13.6 (0.54)	10.5 (0.41)	30.7 (1.21)	13.9 (0.55)					M10	3/8
VR2-12				19.0 (0.75)	13.0 (0.51)	35.6 (1.4)	16.0 (0.63)					M12	1/2
VR5-3.5	Yellow	4-6	12-10	7.2 (0.28)	3.7 (0.15)	22.5 (0.89)	5.9 (0.23)	13.0 (0.51)	3.4 (0.13)	6.6 (0.26)	1.0 (0.04)	M3.5	#6
VR5-4				9.5 (0.37)	4.3 (0.17)	26.0 (1.02)	8.3 (0.33)					M4	#8
VR5-5				9.5 (0.37)	5.3 (0.21)	26.0 (1.02)	8.3 (0.33)					M5	#10
VR5-6				12.0 (0.47)	6.4 (0.25)	29.5 (1.16)	10.5 (0.41)					M6	1/4
VR5-8				15.0 (0.59)	8.4 (0.33)	34.2 (1.35)	13.7 (0.54)					M8	5/16
VR5-10				15.0 (0.59)	10.5 (0.41)	34.2 (1.35)	13.7 (0.54)					M10	3/8
VR5-12				19.2 (0.76)	13.0 (0.51)	38.6 (1.52)	16.0 (0.63)					M12	1/2

Updated 2025/4/25

VINYL-INSULATED RING TERMINALS (EASY-ENTRY)

- Ring tongue design assures a secure connection in high vibration applications
- Insulation support helps to prevent wire damage in bending applications
- The design of the easy-entry terminal makes the installation process easier
- Material: Copper tube with tin plated end sleeves with insulation PVC



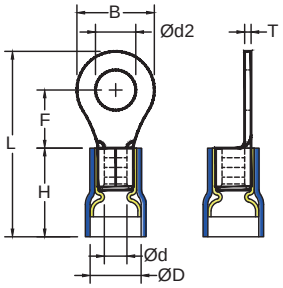
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)								Stud Size	
		sq. mm.	AWG	B	Ød2	L	F	H	Ød	ØD	T	mm	inch
EVR1-3	Red	0.5-1.5	22-16	5.5 (0.22)	3.2 (0.13)	18.0 (0.71)	4.8 (0.19)	10.5 (0.41)	1.7 (0.07)	4.1 (0.16)	0.75 (0.03)	M3	#4
EVR1-3.5				6.6 (0.26)	3.7 (0.15)	20.1 (0.79)	6.3 (0.25)					M3.5	#6
EVR1-4				8.0 (0.31)	4.3 (0.17)	21.5 (0.85)	7.0 (0.28)					M4	#8
EVR1-5				8.0 (0.31)	5.3 (0.21)	21.5 (0.85)	7.0 (0.28)					M5	#10
EVR1-6				11.6 (0.46)	6.4 (0.25)	27.4 (1.08)	11.1 (0.44)					M6	1/4
EVR1-8				11.6 (0.46)	8.4 (0.33)	27.4 (1.08)	11.1 (0.44)					M8	5/16
EVR1-10				13.6 (0.54)	10.5 (0.41)	31.2 (1.23)	13.9 (0.55)					M10	3/8
EVR1-12				19.0 (0.75)	13.0 (0.51)	36.1 (1.42)	16.0 (0.63)					M12	1/2
EVR2-3	Blue	1.5-2.5	16-14	6.6 (0.26)	3.2 (0.13)	18.6 (0.73)	4.3 (0.17)	11.0 (0.43)	2.3 (0.09)	4.5 (0.18)	0.8 (0.03)	M3	#4
EVR2-3.5				6.6 (0.26)	3.7 (0.15)	20.6 (0.81)	6.3 (0.25)					M3.5	#6
EVR2-4				8.5 (0.33)	4.3 (0.17)	23.0 (0.91)	7.8 (0.31)					M4	#8
EVR2-5				9.5 (0.37)	5.3 (0.21)	23.0 (0.91)	7.3 (0.29)					M5	#10
EVR2-6				12.0 (0.47)	6.4 (0.25)	28.0 (1.10)	11.0 (0.43)					M6	1/4
EVR2-8				12.0 (0.47)	8.4 (0.33)	28.0 (1.10)	11.0 (0.43)					M8	5/16
EVR2-10				13.6 (0.54)	10.5 (0.41)	31.7 (1.25)	13.9 (0.55)					M10	3/8
EVR2-12				19.0 (0.75)	13.0 (0.51)	36.6 (1.44)	16.0 (0.63)					M12	1/2
EVR5-3.5	Yellow	4-6	12-10	7.2 (0.28)	3.7 (0.15)	22.5 (0.89)	5.9 (0.23)	13.0 (0.51)	3.4 (0.13)	6.5 (0.26)	1.0 (0.04)	M3.5	#6
EVR5-4				9.5 (0.37)	4.3 (0.17)	26.0 (1.02)	8.3 (0.33)					M4	#8
EVR5-5				9.5 (0.37)	5.3 (0.21)	26.0 (1.02)	8.3 (0.33)					M5	#10
EVR5-6				12.0 (0.47)	6.4 (0.25)	29.5 (1.16)	10.5 (0.41)					M6	1/4
EVR5-8				15.0 (0.59)	8.4 (0.33)	34.2 (1.35)	13.7 (0.54)					M8	5/16
EVR5-10				15.0 (0.59)	10.5 (0.41)	34.2 (1.35)	13.7 (0.54)					M10	3/8
EVR5-12				19.2 (0.76)	13.0 (0.51)	38.6 (1.52)	16.0 (0.63)					M12	1/2

Updated 2025/4/25

VINYL-INSULATED RING TERMINALS (DOUBLE CRIMP)

- Ring tongue design assures a secure connection in high vibration applications
- Insulation support helps to prevent wire damage in bending applications
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Copper tube with tin plated end sleeves with insulation PVC



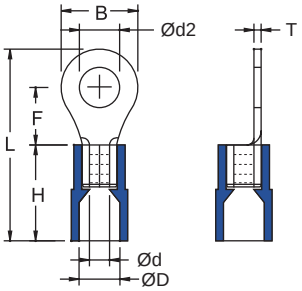
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)								Stud Size	
		sq. mm.	AWG	B	Ød2	L	F	H	Ød	ØD	T	mm	inch
EVR1-3C	Red	0.5-1.5	22-16	5.5 (0.22)	3.2 (0.13)	18.0 (0.71)	4.8 (0.19)	10.5 (0.41)	1.7 (0.07)	4.5 (0.18)	0.75 (0.03)	M3	#4
EVR1-3.5C				6.6 (0.26)	3.7 (0.15)	20.1 (0.79)	6.3 (0.25)					M3.5	#6
EVR1-4C				8.0 (0.31)	4.3 (0.17)	21.5 (0.85)	7.0 (0.28)					M4	#8
EVR1-5C				8.0 (0.31)	5.3 (0.21)	21.5 (0.85)	7.0 (0.28)					M5	#10
EVR1-6C				11.6 (0.46)	6.4 (0.25)	27.4 (1.08)	11.1 (0.44)					M6	1/4
EVR1-8C				11.6 (0.46)	8.4 (0.33)	27.4 (1.08)	11.1 (0.44)					M8	5/16
EVR1-10C				13.6 (0.54)	10.5 (0.41)	31.2 (1.23)	13.9 (0.55)					M10	3/8
EVR1-12C				19.0 (0.75)	13.0 (0.51)	36.1 (1.42)	16.0 (0.63)					M12	1/2
EVR2-3C	Blue	1.5-2.5	16-14	6.6 (0.26)	3.2 (0.13)	18.1 (0.71)	4.3 (0.17)	10.5 (0.41)	2.3 (0.09)	5.0 (0.20)	0.8 (0.03)	M3	#4
EVR2-3.5C				6.6 (0.26)	3.7 (0.15)	20.1 (0.79)	6.3 (0.25)					M3.5	#6
EVR2-4C				8.5 (0.33)	4.3 (0.17)	22.5 (0.89)	7.8 (0.31)					M4	#8
EVR2-5C				9.5 (0.37)	5.3 (0.21)	22.5 (0.89)	7.3 (0.29)					M5	#10
EVR2-6C				12.0 (0.47)	6.4 (0.25)	27.5 (1.08)	11.0 (0.43)					M6	1/4
EVR2-8C				12.0 (0.47)	8.4 (0.33)	27.5 (1.08)	11.0 (0.43)					M8	5/16
EVR2-10C				13.6 (0.54)	10.5 (0.41)	31.2 (1.23)	13.9 (0.55)					M10	3/8
EVR2-12C				19.0 (0.75)	13.0 (0.51)	36.1 (1.42)	16.0 (0.63)					M12	1/2
EVR5-3.5C	Yellow	4-6	12-10	7.2 (0.28)	3.7 (0.15)	22.5 (0.89)	5.9 (0.23)	13.0 (0.51)	3.4 (0.13)	6.7 (0.26)	1.0 (0.04)	M3.5	#6
EVR5-4C				9.5 (0.37)	4.3 (0.17)	26.0 (1.02)	8.3 (0.33)					M4	#8
EVR5-5C				9.5 (0.37)	5.3 (0.21)	26.0 (1.02)	8.3 (0.33)					M5	#10
EVR5-6C				12.0 (0.47)	6.4 (0.25)	29.5 (1.16)	10.5 (0.41)					M6	1/4
EVR5-8C				15.0 (0.59)	8.4 (0.33)	34.2 (1.35)	13.7 (0.54)					M8	5/16
EVR5-10C				15.0 (0.59)	10.5 (0.41)	34.2 (1.35)	13.7 (0.54)					M10	3/8
EVR5-12C				19.2 (0.76)	13.0 (0.51)	38.6 (1.52)	16.0 (0.63)					M12	1/2

Updated 2025/4/25

NYLON-INSULATED RING TERMINALS (EASY-ENTRY)

- Ring tongue design assures a secure connection in high vibration applications
- Insulation support helps to prevent wire damage in bending applications
- The design of the easy-entry terminal makes the installation process easier
- Material: Copper tube with tin plated end sleeves with insulation Nylon



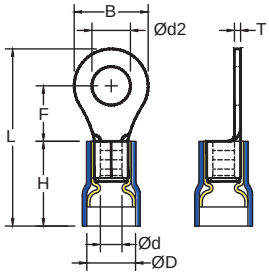
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)								Stud Size	
		sq. mm.	AWG	B	Ød2	L	F	H	Ød	ØD	T	mm	inch
ENR1-3	Red	0.5-1.5	22-16	5.5 (0.22)	3.2 (0.13)	18.5 (0.73)	4.8 (0.19)	10.5 (0.41)	1.7 (0.07)	4.1 (0.16)	0.75 (0.03)	M3	#4
ENR1-3.5				6.6 (0.26)	3.7 (0.15)	20.6 (0.81)	6.3 (0.25)					M3.5	#6
ENR1-4				8.0 (0.31)	4.3 (0.17)	22.0 (0.87)	7.0 (0.28)					M4	#8
ENR1-5				8.0 (0.31)	5.3 (0.21)	22.0 (0.87)	7.0 (0.28)					M5	#10
ENR1-6				11.6 (0.46)	6.4 (0.25)	27.9 (1.10)	11.1 (0.44)					M6	1/4
ENR1-8				11.6 (0.46)	8.4 (0.33)	27.9 (1.10)	11.1 (0.44)					M8	5/16
ENR1-10				13.6 (0.54)	10.5 (0.41)	31.7 (1.25)	13.9 (0.55)					M10	3/8
ENR1-12				19.0 (0.75)	13.0 (0.51)	36.6 (1.44)	16.0 (0.63)					M12	1/2
ENR2-3	Blue	1.5-2.5	16-14	6.6 (0.26)	3.2 (0.13)	18.6 (0.73)	4.3 (0.17)	11.0 (0.43)	2.3 (0.09)	4.5 (0.18)	0.8 (0.03)	M3	#4
ENR2-3.5				6.6 (0.26)	3.7 (0.15)	20.6 (0.81)	6.3 (0.25)					M3.5	#6
ENR2-4				8.5 (0.33)	4.3 (0.17)	23.0 (0.91)	7.8 (0.31)					M4	#8
ENR2-5				9.5 (0.37)	5.3 (0.21)	23.0 (0.91)	7.3 (0.29)					M5	#10
ENR2-6				12.0 (0.47)	6.4 (0.25)	28.0 (1.10)	11.0 (0.43)					M6	1/4
ENR2-8				12.0 (0.47)	8.4 (0.33)	28.0 (1.10)	11.0 (0.43)					M8	5/16
ENR2-10				13.6 (0.54)	10.5 (0.41)	31.7 (1.25)	13.9 (0.55)					M10	3/8
ENR2-12				19.0 (0.75)	13.0 (0.51)	36.6 (1.44)	16.0 (0.63)					M12	1/2
ENR5-3.5	Yellow	4-6	12-10	7.2 (0.28)	3.7 (0.15)	22.5 (0.89)	5.9 (0.23)	13.0 (0.51)	3.4 (0.13)	6.5 (0.26)	1.0 (0.04)	M3.5	#6
ENR5-4				9.5 (0.37)	4.3 (0.17)	26.0 (1.02)	8.3 (0.33)					M4	#8
ENR5-5				9.5 (0.37)	5.3 (0.21)	26.0 (1.02)	8.3 (0.33)					M5	#10
ENR5-6				12.0 (0.47)	6.4 (0.25)	29.5 (1.16)	10.5 (0.41)					M6	1/4
ENR5-8				15.0 (0.59)	8.4 (0.33)	34.2 (1.35)	13.7 (0.54)					M8	5/16
ENR5-10				15.0 (0.59)	10.5 (0.41)	34.2 (1.35)	13.7 (0.54)					M10	3/8
ENR5-12				19.2 (0.76)	13.0 (0.51)	38.6 (1.52)	16.0 (0.63)					M12	1/2

Updated 2025/4/25

NYLON-INSULATED RING TERMINALS (DOUBLE CRIMP)

- Ring tongue design assures a secure connection in high vibration applications
- Insulation support helps to prevent wire damage in bending applications
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Copper tube with tin plated end sleeves with insulation Nylon



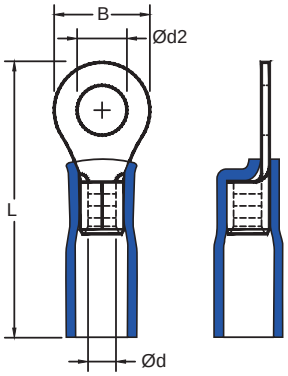
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)								Stud Size	
		sq. mm.	AWG	B	Ød2	L	F	H	Ød	ØD	T	mm	inch
ENR1-3C	Red	0.5-1.5	22-16	5.5 (0.22)	3.2 (0.13)	18.5 (0.73)	4.8 (0.19)	11.0 (0.43)	1.7 (0.07)	4.5 (0.18)	0.75 (0.03)	M3	#4
ENR1-3.5C				6.6 (0.26)	3.7 (0.15)	20.6 (0.81)	6.3 (0.25)					M3.5	#6
ENR1-4C				8.0 (0.31)	4.3 (0.17)	22.0 (0.87)	7.0 (0.28)					M4	#8
ENR1-5C				8.0 (0.31)	5.3 (0.21)	22.0 (0.87)	7.0 (0.28)					M5	#10
ENR1-6C				11.6 (0.46)	6.4 (0.25)	27.9 (1.10)	11.1 (0.44)					M6	1/4
ENR1-8C				11.6 (0.46)	8.4 (0.33)	27.9 (1.10)	11.1 (0.44)					M8	5/16
ENR1-10C				13.6 (0.54)	10.5 (0.41)	31.7 (1.25)	13.9 (0.55)					M10	3/8
ENR1-12C				19.0 (0.75)	13.0 (0.51)	36.6 (1.44)	16.0 (0.63)					M12	1/2
ENR2-3C	Blue	1.5-2.5	16-14	6.6 (0.26)	3.2 (0.13)	18.6 (0.73)	4.3 (0.17)	11.0 (0.43)	2.3 (0.09)	5.0 (0.20)	0.8 (0.03)	M3	#4
ENR2-3.5C				6.6 (0.26)	3.7 (0.15)	20.6 (0.81)	6.3 (0.25)					M3.5	#6
ENR2-4C				8.5 (0.33)	4.3 (0.17)	23.0 (0.91)	7.8 (0.31)					M4	#8
ENR2-5C				9.5 (0.37)	5.3 (0.21)	23.0 (0.91)	7.3 (0.29)					M5	#10
ENR2-6C				12.0 (0.47)	6.4 (0.25)	28.0 (1.10)	11.0 (0.43)					M6	1/4
ENR2-8C				12.0 (0.47)	8.4 (0.33)	28.0 (1.10)	11.0 (0.43)					M8	5/16
ENR2-10C				13.6 (0.54)	10.5 (0.41)	31.7 (1.25)	13.9 (0.55)					M10	3/8
ENR2-12C				19.0 (0.75)	13.0 (0.51)	36.6 (1.44)	16.0 (0.63)					M12	1/2
ENR5-3.5C	Yellow	4-6	12-10	7.2 (0.28)	3.7 (0.15)	22.5 (0.89)	5.9 (0.23)	13.0 (0.51)	3.4 (0.13)	6.7 (0.26)	1.0 (0.04)	M3.5	#6
ENR5-4C				9.5 (0.37)	4.3 (0.17)	26.0 (1.02)	8.3 (0.33)					M4	#8
ENR5-5C				9.5 (0.37)	5.3 (0.21)	26.0 (1.02)	8.3 (0.33)					M5	#10
ENR5-6C				12.0 (0.47)	6.4 (0.25)	29.5 (1.16)	10.5 (0.41)					M6	1/4
ENR5-8C				15.0 (0.59)	8.4 (0.33)	34.2 (1.35)	13.7 (0.54)					M8	5/16
ENR5-10C				15.0 (0.59)	10.5 (0.41)	34.2 (1.35)	13.7 (0.54)					M10	3/8
ENR5-12C				19.2 (0.76)	13.0 (0.51)	38.6 (1.52)	16.0 (0.63)					M12	1/2

Updated 2025/4/25

INSULATED HEAT SHRINKABLE RING TERMINALS (BRAZED SEAM)

- Brazed seam protects terminal barrel from splitting during the crimping process
- Ring tongue design assures a secure connection in high vibration applications
- Fork design provides fast and easy installation without removing the fatener
- Insulation support helps to prevent wire damage in bending applications
- Provides excellent electrical insulation, sealing, waterproof, corrosion resistance and temperature resistance
- Material: Copper tube with tin plated end sleeves with insulation high density PE



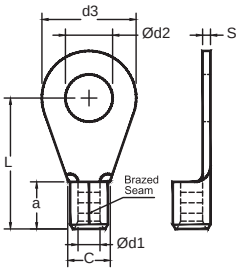
RoHS HF

Part No.	Color	Wire Range		Dimension mm (inch)				Stud Size	
		sq. mm.	AWG	B	Ød2	L	Ød	mm	inch
HR1-4B	Red	0.5-1.5	22-16	8.0 (0.31)	4.3 (0.17)	28.0 (1.10)	1.7 (0.07)	M4	#8
HR1-5B				8.0 (0.31)	5.3 (0.21)	28.0 (1.10)		M5	#10
HR1-6B				11.6 (0.46)	6.4 (0.25)	34.0 (1.34)		M6	1/4
HR1-8B				11.6 (0.46)	8.4 (0.33)	34.0 (1.34)		M8	5/16
HR1-10B				13.6 (0.54)	10.5 (0.41)	38.0 (1.50)		M10	3/8
HR2-4B	Blue	1.5-2.5	16-14	8.5 (0.33)	4.3 (0.17)	29.0 (1.14)	2.3 (0.09)	M4	#8
HR2-5B				9.5 (0.37)	5.3 (0.21)	29.0 (1.14)		M5	#10
HR2-6B				12.0 (0.47)	6.4 (0.25)	34.0 (1.34)		M6	1/4
HR2-8B				12.0 (0.47)	8.4 (0.33)	34.0 (1.34)		M8	5/16
HR2-10B				13.6 (0.54)	10.5 (0.41)	38.0 (1.50)		M10	3/8
HR5-4B	Yellow	4-6	12-10	9.5 (0.37)	4.3 (0.17)	33.0 (1.30)	3.4 (0.13)	M4	#8
HR5-5B				9.5 (0.37)	5.3 (0.21)	33.0 (1.30)		M5	#10
HR5-6B				12.0 (0.47)	6.4 (0.25)	37.0 (1.46)		M6	1/4
HR5-8B				15.0 (0.59)	8.4 (0.33)	41.0 (1.61)		M8	5/16
HR5-10B				15.0 (0.59)	10.5 (0.41)	41.0 (1.61)		M10	3/8
HR5-12B				19.2 (0.76)	13.0 (0.51)	46.0 (1.81)		M12	1/2

Updated 2025/4/25

NON-INSULATED RING DIN 46234 TERMINALS

- Brazed seam protects terminal barrel from splitting during the crimping process
- Material: Copper



RoHS HF

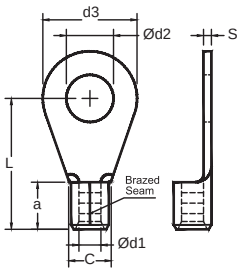
Part No.	Wire Range		Dimension mm (inch)							Stud Size
	sq. mm.	AWG	Ød3	Ød2	L	a	Ød1	C	S	mm
DR2.5-1B	0.5-1.5	22-16	6.0 (0.24)	2.7 (0.11)	11.0 (0.43)	5.0 (0.20)	1.6 (0.06)	4.0 (0.16)	0.8 (0.03)	M2.5
DR3-1B			6.0 (0.24)	3.2 (0.13)	11.0 (0.43)					M3
DR3.5-1B			6.0 (0.24)	3.7 (0.15)	11.0 (0.43)					M3.5
DR4-1B			8.0 (0.31)	4.3 (0.17)	12.0 (0.47)					M4
DR5-1B			10.0 (0.39)	5.3 (0.21)	13.0 (0.51)					M5
DR6-1B			11.0 (0.43)	6.5 (0.26)	16.0 (0.63)					M6
DR3-2.5B	1.5	16-14	6.0 (0.24)	3.2 (0.13)	11.0 (0.43)	5.0 (0.20)	2.3 (0.09)	4.5 (0.18)	0.8 (0.03)	M3
DR3.5-2.5B			6.0 (0.24)	3.7 (0.15)	11.0 (0.43)					M3.5
DR4-2.5B			8.0 (0.31)	4.3 (0.17)	12.0 (0.47)					M4
DR5-2.5B			10.0 (0.39)	5.3 (0.21)	14.0 (0.55)					M5
DR6-2.5B			11.0 (0.43)	6.5 (0.26)	16.0 (0.63)					M6
DR8-2.5B			14.0 (0.55)	8.4 (0.33)	17.0 (0.67)					M8
DR4-6B	4-6	12-10	8.0 (0.31)	4.3 (0.17)	14.0 (0.55)	6.0 (0.24)	3.6 (0.14)	6.0 (0.24)	1.0 (0.04)	M4
DR5-6B			10.0 (0.39)	5.3 (0.21)	15.0 (0.59)					M5
DR6-6B			11.0 (0.43)	6.5 (0.26)	16.0 (0.63)					M6
DR8-6B			14.0 (0.55)	8.4 (0.33)	19.0 (0.75)					M8
DR10-6B			18.0 (0.71)	10.5 (0.41)	21.0 (0.83)					M10
DR12-6B			18.0 (0.71)	13.0 (0.51)	21.0 (0.83)					M12
DR5-10B	10	8	10.0 (0.39)	5.3 (0.21)	16.0 (0.63)	8.0 (0.31)	4.5 (0.18)	8.0 (0.31)	1.1 (0.04)	M5
DR6-10B			11.0 (0.43)	6.5 (0.26)	17.0 (0.67)					M6
DR8-10B			14.0 (0.55)	8.4 (0.33)	20.0 (0.79)					M8
DR10-10B			18.0 (0.71)	10.5 (0.41)	21.0 (0.83)					M10
DR12-10B			22.0 (0.87)	13.0 (0.51)	23.0 (0.91)					M12
DR5-16B	16	6	11.0 (0.43)	5.3 (0.21)	20.0 (0.79)	10.0 (0.39)	5.8 (0.23)	10.5 (0.41)	1.2 (0.05)	M5
DR6-16B			11.0 (0.43)	6.5 (0.26)	20.0 (0.79)					M6
DR8-16B			14.0 (0.55)	8.4 (0.33)	22.0 (0.87)					M8
DR10-16B			18.0 (0.71)	10.5 (0.41)	24.0 (0.94)					M10
DR12-16B			22.0 (0.87)	13.0 (0.51)	26.0 (1.02)					M12
DR5-25B	25	4	12.0 (0.47)	5.3 (0.21)	25.0 (0.98)	11.0 (0.43)	7.5 (0.30)	12.0 (0.47)	1.5 (0.06)	M5
DR6-25B			12.0 (0.47)	6.5 (0.26)	25.0 (0.98)					M6
DR8-25B			16.0 (0.63)	8.4 (0.33)	25.0 (0.98)					M8
DR10-25B			18.0 (0.71)	10.5 (0.41)	26.0 (1.02)					M10
DR12-25B			22.0 (0.87)	13.0 (0.51)	31.0 (1.22)					M12
DR16-25B			28.0 (1.10)	17.0 (0.67)	35.0 (1.38)					M16

*DIN46234

Updated 2025/4/25

NON-INSULATED RING DIN 46234 TERMINALS

- Brazed seam protects terminal barrel from splitting during the crimping process
- Material: Copper



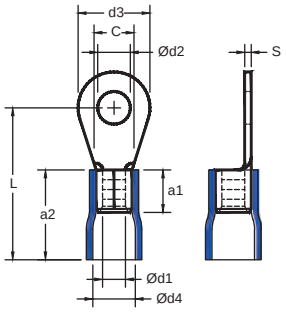
RoHS HF

Part No.	Wire Range		Dimension mm (inch)							Stud Size
	sq. mm.	AWG	Ød3	Ød2	L	a	Ød1	C	S	mm
DR6-35B	35	2	15.0 (0.59)	6.5 (0.26)	26.0 (1.02)	12.0 (0.47)	9.0 (0.35)	15.0 (0.59)	1.6 (0.06)	M6
DR8-35B			16.0 (0.63)	8.4 (0.33)	26.0 (1.02)					M8
DR10-35B			18.0 (0.71)	10.5 (0.41)	27.0 (1.06)					M10
DR12-35B			22.0 (0.87)	13.0 (0.51)	31.0 (1.22)					M12
DR16-35B			28.0 (1.10)	17.0 (0.67)	36.0 (1.42)					M16
DR6-50B	50	1/0	18.0 (0.71)	6.5 (0.26)	34.0 (1.34)	16.0 (0.63)	11.0 (0.43)	17.0 (0.67)	1.8 (0.07)	M6
DR8-50B			18.0 (0.71)	8.0 (0.31)	34.0 (1.34)					M8
DR10-50B			18.0 (0.71)	10.5 (0.41)	34.0 (1.34)					M10
DR12-50B			22.0 (0.87)	13.0 (0.51)	36.0 (1.42)					M12
DR16-50B			28.0 (1.10)	17.0 (0.67)	40.0 (1.57)					M16
DR6-70B	70	2/0	22.0 (0.87)	6.5 (0.26)	38.0 (1.50)	18.0 (0.71)	13.0 (0.51)	21.0 (0.83)	2.0 (0.08)	M6
DR8-70B			22.0 (0.87)	8.4 (0.33)	38.0 (1.50)					M8
DR10-70B			22.0 (0.87)	10.5 (0.41)	38.0 (1.50)					M10
DR12-70B			22.0 (0.87)	13.0 (0.51)	38.0 (1.50)					M12
DR16-70B			28.0 (1.10)	17.0 (0.67)	42.0 (1.65)					M16
DR8-95B	95	3/0	24.0 (0.94)	8.4 (0.33)	42.0 (1.65)	20.0 (0.79)	15.0 (0.59)	23.0 (0.91)	2.5 (0.1)	M8
DR10-95B			24.0 (0.94)	10.5 (0.41)	42.0 (1.65)					M10
DR12-95B			24.0 (0.94)	13.0 (0.51)	42.0 (1.65)					M12
DR16-95B			28.0 (1.10)	17.0 (0.67)	44.0 (1.73)					M16
DR8-120B	120	4/0	24.0 (0.94)	8.4 (0.33)	44.0 (1.73)	22.0 (0.87)	16.5 (0.65)	24.0 (0.94)	3.0 (0.12)	M8
DR10-120B			24.0 (0.94)	10.5 (0.41)	44.0 (1.73)					M10
DR12-120B			24.0 (0.94)	13.0 (0.51)	44.0 (1.73)					M12
DR16-120B			28.0 (1.10)	17.0 (0.67)	48.0 (1.89)					M16

Updated 2025/4/25

VINYL-INSULATED DIN 46237 RING TERMINALS

- Insulation support helps to prevent wire damage in bending applications
- Material: Copper tube with tin plated end sleeves with insulation PVC



RoHS

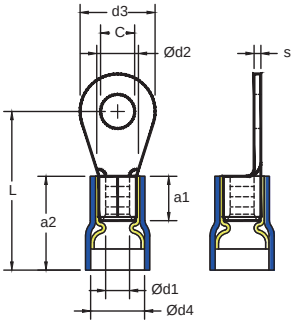
Part No.	Color	Wire Range		Dimension mm (inch)									Stud Size
		sq. mm.	AWG	d3	Ød2	C	L	a1	a2	Ød1	Ød4	s	mm
VDR2.5-1B	Red	0.5-1.5	22-16	6.0 (0.24)	2.7 (0.11)	4.0 (0.16)	16.0 (0.63)	5.0 (0.2)	10.0 (0.39)	1.6 (0.06)	4.2 (0.17)	0.8 (0.03)	M2.5
VDR3-1B				6.0 (0.24)	3.2 (0.13)	4.0 (0.16)	16.0 (0.63)						M3
VDR3.5-1B				6.0 (0.24)	3.7 (0.15)	4.0 (0.16)	16.0 (0.63)						M3.5
VDR4-1B				8.0 (0.31)	4.3 (0.17)	4.0 (0.16)	17.0 (0.67)						M4
VDR5-1B				10.0 (0.39)	5.3 (0.21)	4.0 (0.16)	18.0 (0.71)						M5
VDR6-1B				11.0 (0.43)	6.5 (0.26)	4.0 (0.16)	21.0 (0.83)						M6
VDR3-2.5B	Blue	1.5-2.5	16-14	6.0 (0.24)	3.2 (0.13)	4.5 (0.18)	16.0 (0.63)	5.0 (0.2)	10.0 (0.39)	2.3 (0.09)	4.6 (0.18)	0.8 (0.03)	M3
VDR3.5-2.5B				6.0 (0.24)	3.7 (0.15)	4.5 (0.18)	16.0 (0.63)						M3.5
VDR4-2.5B				8.0 (0.31)	4.3 (0.17)	4.5 (0.18)	17.0 (0.67)						M4
VDR5-2.5B				10.0 (0.39)	5.3 (0.21)	4.5 (0.18)	19.0 (0.75)						M5
VDR6-2.5B				11.0 (0.43)	6.5 (0.26)	4.5 (0.18)	21.0 (0.83)						M6
VDR8-2.5B				14.0 (0.55)	8.4 (0.33)	4.5 (0.18)	22.0 (0.87)						M8
VDR4-6B	Yellow	4-6	12-10	8.0 (0.31)	4.3 (0.17)	6.0 (0.24)	21.0 (0.83)	6.0 (0.24)	13.0 (0.51)	3.6 (0.14)	6.6 (0.26)	1.0 (0.04)	M4
VDR5-6B				10.0 (0.39)	5.3 (0.21)	6.0 (0.24)	22.0 (0.87)						M5
VDR6-6B				11.0 (0.43)	6.5 (0.26)	6.0 (0.24)	23.0 (0.91)						M6
VDR8-6B				14.0 (0.55)	8.4 (0.33)	6.0 (0.24)	26.0 (1.02)						M8
VDR10-6B				18.0 (0.71)	10.5 (0.41)	6.0 (0.24)	28.0 (1.10)						M10
VDR12-6B				18.0 (0.71)	13.0 (0.51)	6.0 (0.24)	28.0 (1.10)						M12

*DIN46237

Updated 2025/4/25

VINYL-INSULATED DIN 46237 RING TERMINALS (DOUBLE CRIMP)

- Ring tongue design assures a secure connection in high vibration applications
- Insulation support helps to prevent wire damage in bending applications
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Copper tube with tin plated end sleeves with insulation PVC



RoHS

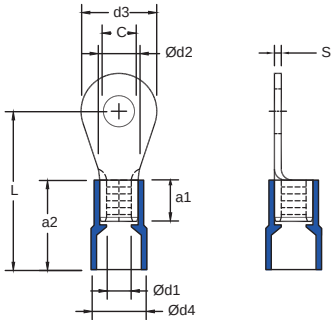
Part No.	Color	Wire Range		Dimension mm (inch)									Stud Size
		sq. mm.	AWG	d3	Ød2	C	L	a1	a2	Ød1	Ød4	s	mm
EVDR2.5-1C	Red	0.5-1.5	22-16	6.0 (0.24)	2.7 (0.11)	4.0 (0.16)	16.5 (0.65)	5.0 (0.20)	10.5 (0.41)	1.6 (0.06)	4.5 (0.18)	0.8 (0.03)	M2.5
EVDR3-1C				6.0 (0.24)	3.2 (0.13)	4.0 (0.16)	16.5 (0.65)						M3
EVDR3.5-1C				6.0 (0.24)	3.7 (0.15)	4.0 (0.16)	16.5 (0.65)						M3.5
EVDR4-1C				8.0 (0.31)	4.3 (0.17)	4.0 (0.16)	17.5 (0.69)						M4
EVDR5-1C				10.0 (0.39)	5.3 (0.21)	4.0 (0.16)	18.5 (0.73)						M5
EVDR6-1C				11.0 (0.43)	6.5 (0.26)	4.0 (0.16)	21.5 (0.85)						M6
EVDR8-1C				14.0 (0.55)	8.4 (0.33)	4.0 (0.16)	22.5 (0.89)						M8
EVDR3-2.5C	Blue	1.5-2.5	16-14	6.0 (0.24)	3.2 (0.13)	4.5 (0.18)	16.5 (0.65)	5.0 (0.20)	10.5 (0.41)	2.3 (0.09)	5.0 (0.20)	0.8 (0.03)	M3
EVDR3.5-2.5C				6.0 (0.24)	3.7 (0.15)	4.5 (0.18)	16.5 (0.65)						M3.5
EVDR4-2.5C				8.0 (0.31)	4.3 (0.17)	4.5 (0.18)	17.5 (0.69)						M4
EVDR5-2.5C				10.0 (0.39)	5.3 (0.21)	4.5 (0.18)	19.5 (0.77)						M5
EVDR6-2.5C				11.0 (0.43)	6.5 (0.26)	4.5 (0.18)	21.5 (0.85)						M6
EVDR8-2.5C				14.0 (0.55)	8.4 (0.33)	4.5 (0.18)	22.5 (0.89)						M8
EVDR10-2.5C				18.0 (0.71)	10.5 (0.41)	4.5 (0.18)	25.5 (1.00)						M10
EVDR4-6C	Yellow	4-6	12-10	8.0 (0.31)	4.3 (0.17)	6.0 (0.24)	21.0 (0.83)	6.0 (0.24)	13 (0.51)	3.6 (0.14)	6.7 (0.26)	1.0 (0.04)	M4
EVDR5-6C				10.0 (0.39)	5.3 (0.21)	6.0 (0.24)	22.0 (0.87)						M5
EVDR6-6C				11.0 (0.43)	6.5 (0.26)	6.0 (0.24)	23.0 (0.91)						M6
EVDR8-6C				14.0 (0.55)	8.4 (0.33)	6.0 (0.24)	26.0 (1.02)						M8
EVDR10-6C				18.0 (0.71)	10.5 (0.41)	6.0 (0.24)	28.0 (1.10)						M10
EVDR12-6C				18.0 (0.71)	13.0 (0.51)	6.0 (0.24)	28.0 (1.10)						M12

*DIN46234

Updated 2025/4/25

NYLON-INSULATED DIN 46237 RING TERMINALS (EASY-ENTRY)

- Ring tongue design assures a secure connection in high vibration applications
- Insulation support helps to prevent wire damage in bending applications
- The design of the easy-entry terminal makes the installation process easier
- Material: Copper tube with tin plated end sleeves with insulation Nylon



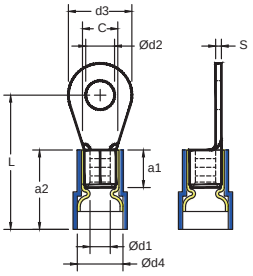
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)									Stud Size
		sq. mm.	AWG	d3	Ød2	C	L	a1	a2	Ød1	Ød4	s	mm
ENDR2.5-1	Red	0.5-1.5	22-16	6.0 (0.24)	2.7 (0.11)	4.0 (0.16)	17.0 (0.67)	5.0 (0.20)	10.5 (0.41)	1.6 (0.06)	4.1 (0.16)	0.8 (0.03)	M2.5
ENDR3-1				6.0 (0.24)	3.2 (0.13)	4.0 (0.16)	17.0 (0.67)						M3
ENDR3.5-1				6.0 (0.24)	3.7 (0.15)	4.0 (0.16)	17.0 (0.67)						M3.5
ENDR4-1				8.0 (0.31)	4.3 (0.17)	4.0 (0.16)	18.0 (0.71)						M4
ENDR5-1				10.0 (0.39)	5.3 (0.21)	4.0 (0.16)	19.0 (0.75)						M5
ENDR6-1				11.0 (0.43)	6.5 (0.26)	4.0 (0.16)	22.0 (0.87)						M6
ENDR8-1				14.0 (0.55)	8.4 (0.33)	4.0 (0.16)	23.0 (0.91)						M8
ENDR3-2.5	Blue	1.5-2.5	16-14	6.0 (0.24)	3.2 (0.13)	4.5 (0.18)	17.0 (0.67)	5.0 (0.20)	11.0 (0.43)	2.3 (0.09)	4.5 (0.18)	0.8 (0.03)	M3
ENDR3.5-2.5				6.0 (0.24)	3.7 (0.15)	4.5 (0.18)	17.0 (0.67)						M3.5
ENDR4-2.5				8.0 (0.31)	4.3 (0.17)	4.5 (0.18)	18.0 (0.71)						M4
ENDR5-2.5				10.0 (0.39)	5.3 (0.21)	4.5 (0.18)	20.0 (0.79)						M5
ENDR6-2.5				11.0 (0.43)	6.5 (0.26)	4.5 (0.18)	22.0 (0.87)						M6
ENDR8-2.5				14.0 (0.55)	8.4 (0.33)	4.5 (0.18)	23.0 (0.91)						M8
ENDR10-2.5				18.0 (0.71)	10.5 (0.41)	4.5 (0.18)	26.0 (1.02)						M10
ENDR4-6	Yellow	4-6	12-10	8.0 (0.31)	4.3 (0.17)	6.0 (0.24)	21.0 (0.83)	6.0 (0.24)	13 (0.51)	3.6 (0.14)	6.5 (0.26)	1.0 (0.04)	M4
ENDR5-6				10.0 (0.39)	5.3 (0.21)	6.0 (0.24)	22.0 (0.87)						M5
ENDR6-6				11.0 (0.43)	6.5 (0.26)	6.0 (0.24)	23.0 (0.91)						M6
ENDR8-6				14.0 (0.55)	8.4 (0.33)	6.0 (0.24)	26.0 (1.02)						M8
ENDR10-6				18.0 (0.71)	10.5 (0.41)	6.0 (0.24)	28.0 (1.10)						M10
ENDR12-6				18.0 (0.71)	13.0 (0.51)	6.0 (0.24)	28.0 (1.10)						M12

Updated 2025/4/25

NYLON-INSULATED DIN 46237 RING TERMINALS (DOUBLE CRIMP)

- Ring tongue design assures a secure connection in high vibration applications
- Insulation support helps to prevent wire damage in bending applications
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Copper tube with tin plated end sleeves with insulation Nylon



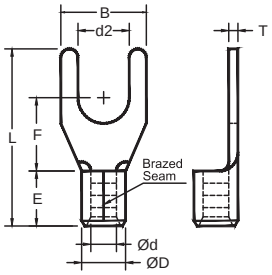
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)									Stud Size
		sq. mm.	AWG	d3	Ød2	C	L	a1	a2	Ød1	Ød4	s	mm
ENDR2.5-1C	Red	0.5-1.5	22-16	6.0 (0.24)	2.7 (0.11)	4.0 (0.16)	17.0 (0.67)	5.0 (0.20)	11.0 (0.43)	1.6 (0.06)	4.5 (0.18)	0.8 (0.03)	M2.5
ENDR3-1C				6.0 (0.24)	3.2 (0.13)	4.0 (0.16)	17.0 (0.67)						M3
ENDR3.5-1C				6.0 (0.24)	3.7 (0.15)	4.0 (0.16)	17.0 (0.67)						M3.5
ENDR4-1C				8.0 (0.31)	4.3 (0.17)	4.0 (0.16)	18.0 (0.71)						M4
ENDR5-1C				10.0 (0.39)	5.3 (0.21)	4.0 (0.16)	19.0 (0.75)						M5
ENDR6-1C				11.0 (0.43)	6.5 (0.26)	4.0 (0.16)	22.0 (0.87)						M6
ENDR8-1C				14.0 (0.55)	8.4 (0.33)	4.0 (0.16)	23.0 (0.91)						M8
ENDR3-2.5C	Blue	1.5-2.5	16-14	6.0 (0.24)	3.2 (0.13)	4.5 (0.18)	17.0 (0.67)	5.0 (0.20)	11.0 (0.43)	2.3 (0.09)	5.0 (0.20)	0.8 (0.03)	M3
ENDR3.5-2.5C				6.0 (0.24)	3.7 (0.15)	4.5 (0.18)	17.0 (0.67)						M3.5
ENDR4-2.5C				8.0 (0.31)	4.3 (0.17)	4.5 (0.18)	18.0 (0.71)						M4
ENDR5-2.5C				10.0 (0.39)	5.3 (0.21)	4.5 (0.18)	20.0 (0.79)						M5
ENDR6-2.5C				11.0 (0.43)	6.5 (0.26)	4.5 (0.18)	22.0 (0.87)						M6
ENDR8-2.5C				14.0 (0.55)	8.4 (0.33)	4.5 (0.18)	23.0 (0.91)						M8
ENDR10-2.5C				18.0 (0.71)	10.5 (0.41)	4.5 (0.18)	26.0 (1.02)						M10
ENDR4-6C		4-6	12-10	8.0 (0.31)	4.3 (0.17)	6.0 (0.24)	21.0 (0.83)	6.0 (0.24)	13 (0.51)	3.6 (0.14)	6.7 (0.26)	1.0 (0.04)	M4
ENDR5-6C				10.0 (0.39)	5.3 (0.21)	6.0 (0.24)	22.0 (0.87)						M5
ENDR6-6C				11.0 (0.43)	6.5 (0.26)	6.0 (0.24)	23.0 (0.91)						M6
ENDR8-6C				14.0 (0.55)	8.4 (0.33)	6.0 (0.24)	26.0 (1.02)						M8
ENDR10-6C				18.0 (0.71)	10.5 (0.41)	6.0 (0.24)	28.0 (1.10)						M10
ENDR12-6C				18.0 (0.71)	13.0 (0.51)	6.0 (0.24)	28.0 (1.10)						M12

Updated 2025/4/25

NON-INSULATED SPADE TERMINALS

- Fork design provides fast and easy installation without removing the fastener
- Brazed seam protects terminal barrel from splitting during the crimping process
- Material: Copper

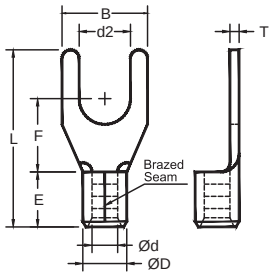


Part No.	Wire Range		Dimension mm (inch)								Stud Size	
	sq. mm.	AWG	B	d2	L	F	E	Ød	ØD	T	mm	inch
Y1-3B	0.5-1.5	22-16	5.8 (0.23)	3.2 (0.13)	16.0 (0.63)	6.3 (0.25)	5.0 (0.20)	1.7 (0.07)	3.4 (0.13)	0.75 (0.03)	M3	#4
Y1-3.5B			6.4 (0.25)	3.7 (0.15)	16.0 (0.63)	6.3 (0.25)					M3.5	#6
Y1-4B			7.2 (0.28)	4.3 (0.17)	16.0 (0.63)	6.3 (0.25)					M4	#8
Y1-5B			8.1 (0.32)	5.3 (0.21)	16.7 (0.66)	7.0 (0.28)					M5	#10
Y1-6B			12.0 (0.47)	6.4 (0.25)	22.4 (0.88)	11.0 (0.43)					M6	1/4
Y2-3B	1.5-2.5	16-14	5.8 (0.23)	3.2 (0.13)	16.2 (0.64)	6.5 (0.26)	5.0 (0.20)	2.3 (0.09)	4.1 (0.16)	0.8 (0.03)	M3	#4
Y2-3.5B			6.4 (0.25)	3.7 (0.15)	16.2 (0.64)	6.5 (0.26)					M3.5	#6
Y2-4B			7.2 (0.28)	4.3 (0.17)	16.2 (0.64)	6.5 (0.26)					M4	#8
Y2-5B			8.5 (0.33)	5.3 (0.21)	17.0 (0.67)	7.3 (0.29)					M5	#10
Y2-6B			12.0 (0.47)	6.4 (0.25)	22.4 (0.88)	11.0 (0.43)					M6	1/4
Y3-3.5B	2.5-4	12-10	8.0 (0.31)	3.7 (0.15)	18.3 (0.72)	7.0 (0.28)	6.0 (0.24)	2.9 (0.11)	5.1 (0.20)	1.0 (0.04)	M3.5	#6
Y3-4B			8.0 (0.31)	4.3 (0.17)	18.3 (0.72)	7.0 (0.28)					M4	#8
Y3-5B			8.0 (0.31)	5.3 (0.21)	18.3 (0.72)	7.0 (0.28)					M5	#10
Y5-3.5B	4-6	12-10	8.3 (0.33)	3.7 (0.15)	19.0 (0.75)	7.5 (0.30)	6.0 (0.24)	3.4 (0.13)	5.6 (0.22)	1.0 (0.04)	M3.5	#6
Y5-4B			9.5 (0.37)	4.3 (0.17)	18.7 (0.74)	7.5 (0.30)					M4	#8
Y5-5B			9.5 (0.37)	5.3 (0.21)	18.7 (0.74)	7.5 (0.30)					M5	#10
Y5-6B			12.0 (0.47)	6.4 (0.25)	24.7 (0.97)	12.0 (0.47)					M6	1/4
Y5-8B			13.5 (0.53)	8.4 (0.33)	24.7 (0.97)	12.2 (0.48)					M8	5/16

Updated 2025/4/25

GOLD PLATED NON INSULATED SPADE TERMINALS (BRAZED SEAM)

- Brazed seam protects terminal barrel from splitting during the crimping process
- It has excellent electrical conductivity, strong corrosion resistance and oxidation resistance, and good stability
- Fork design provides fast and easy installation without removing the fatener
- Material: Copper with gold plating
- Terminals Soft Sleeves for Extra Quote



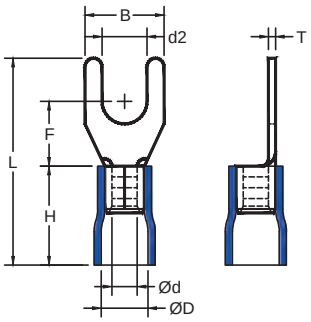
RoHS HF

Part No.	Wire Range		Dimension mm (inch)								Stud Size	
	sq. mm.	AWG	B	Ød2	L	F	E	Ød	ØD	T	mm	inch
GY1-3B	0.5-1.5	22-16	5.8 (0.23)	3.2 (0.13)	16.0 (0.63)	6.3 (0.25)	5.0 (0.2)	1.7 (0.07)	3.4 (0.13)	0.75 (0.03)	M3	#4
GY1-3.5B			6.4 (0.25)	3.7 (0.15)	16.0 (0.63)	6.3 (0.25)					M3.5	#6
GY1-4B			7.2 (0.28)	4.3 (0.17)	16.0 (0.63)	6.3 (0.25)					M4	#8
GY1-5B			9.5 (0.37)	5.3 (0.21)	16.7 (0.66)	7.0 (0.28)					M5	#10
GY1-6B			12.0 (0.47)	6.4 (0.25)	22.4 (0.88)	11.0 (0.43)					M6	1/4
GY2-3B	1.5-2.5	16-14	5.8 (0.23)	3.2 (0.13)	16.2 (0.64)	6.5 (0.26)	5.0 (0.2)	2.3 (0.09)	4.1 (0.16)	0.8 (0.03)	M3	#4
GY2-3.5B			6.4 (0.25)	3.7 (0.15)	16.2 (0.64)	6.5 (0.26)					M3.5	#6
GY2-4B			7.2 (0.28)	4.3 (0.17)	16.2 (0.64)	6.5 (0.26)					M4	#8
GY2-5B			9.5 (0.37)	5.3 (0.21)	16.7 (0.66)	7.0 (0.28)					M5	#10
GY2-6B			12.0 (0.47)	6.4 (0.25)	22.4 (0.88)	11.0 (0.43)					M6	1/4
GY3-3.5B	2.5-4	14-12	8.0 (0.31)	3.7 (0.15)	18.3 (0.72)	7.0 (0.28)	6.0 (0.24)	2.9 (0.11)	5.1 (0.2)	1.0 (0.04)	M3.5	#6
GY3-4B			8.0 (0.31)	4.3 (0.17)	18.3 (0.72)	7.0 (0.28)					M4	#8
GY3-5B			8.0 (0.31)	5.3 (0.21)	18.3 (0.72)	7.0 (0.28)					M5	#10
GY3-6B			12.0 (0.47)	6.4 (0.25)	21.5 (0.85)	9.1 (0.36)					M6	1/4
GY5-3.5B	4-6	12-10	8.3 (0.33)	3.7 (0.15)	19.0 (0.75)	7.5 (0.30)	6.0 (0.24)	3.4 (0.13)	5.6 (0.22)	1.0 (0.04)	M3.5	#6
GY5-4B			9.5 (0.37)	4.3 (0.17)	18.7 (0.74)	7.5 (0.30)					M4	#8
GY5-5B			9.5 (0.37)	5.3 (0.21)	18.7 (0.74)	7.5 (0.30)					M5	#10
GY5-6B			12.0 (0.47)	6.4 (0.25)	24.7 (0.97)	12.0 (0.47)					M6	1/4
GY5-8B			13.5 (0.53)	8.4 (0.33)	24.7 (0.97)	12.2 (0.48)					M8	5/16
GY8-5B	8	8	10.5 (0.41)	5.3 (0.21)	20.8 (0.82)	8.1 (0.32)	8.5 (0.33)	4.5 (0.18)	7.2 (0.28)	1.2 (0.05)	M5	#10
GY8-6B			10.8 (0.43)	6.4 (0.25)	22.5 (0.89)	8.6 (0.34)					M6	1/4
GY14-6B	14	6	11.0 (0.43)	6.4 (0.25)	25.5 (1.00)	10.7 (0.42)	10.5 (0.41)	5.8 (0.23)	9.0 (0.35)	1.5 (0.06)	M6	1/4
GY14-8B			13.8 (0.54)	8.4 (0.33)	28.5 (1.12)	10.7 (0.42)					M8	5/16

Updated 2025/4/25

VINYL-INSULATED SPADE TERMINALS

- Fork design provides fast and easy installation without removing the fastener
- Insulation support helps to prevent wire damage in bending applications
- Material: Copper tube with tin plated end sleeves with insulation PVC

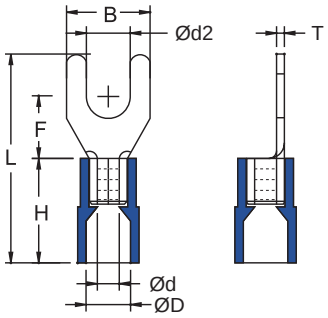


Part No.	Color	Wire Range		Dimension mm (inch)								Stud Size	
		sq. mm.	AWG	B	d2	L	F	H	ØD	Ød	T	mm	inch
VY1-3	Red	0.5-1.5	22-16	5.8 (0.23)	3.2 (0.13)	21.0 (0.83)	6.3 (0.25)	10.0 (0.39)	4.2 (0.17)	1.7 (0.07)	0.75 (0.03)	M3	#4
VY1-3.5				6.4 (0.25)	3.7 (0.15)	21.0 (0.83)	6.3 (0.25)					M3.5	#6
VY1-4				7.2 (0.28)	4.3 (0.17)	21.0 (0.83)	6.3 (0.25)					M4	#8
VY1-5				9.5 (0.37)	5.3 (0.21)	21.7 (0.85)	7.0 (0.28)					M5	#10
VY1-6				12.0 (0.47)	6.4 (0.25)	27.4 (1.08)	11.0 (0.43)					M6	1/4
VY2-3	Blue	1.5-2.5	16-14	5.8 (0.23)	3.2 (0.13)	21.2 (0.83)	6.5 (0.26)	10.0 (0.39)	4.6 (0.18)	2.3 (0.09)	0.8 (0.03)	M3	#4
VY2-3.5				6.4 (0.25)	3.7 (0.15)	21.2 (0.83)	6.5 (0.26)					M3.5	#6
VY2-4				7.2 (0.28)	4.3 (0.17)	21.2 (0.83)	6.5 (0.26)					M4	#8
VY2-5				9.5 (0.37)	5.3 (0.21)	21.7 (0.85)	7.0 (0.28)					M5	#10
VY2-6				12.0 (0.47)	6.4 (0.25)	27.4 (1.08)	11.0 (0.43)					M6	1/4
VY5-3.5	Yellow	4-6	12-10	8.3 (0.33)	3.7 (0.15)	26 (1.02)	7.5 (0.30)	13.0 (0.51)	6.5 (0.26)	3.4 (0.13)	1.0 (0.04)	M3.5	#6
VY5-4				9.5 (0.37)	4.3 (0.17)	25.7 (1.01)	7.5 (0.30)					M4	#8
VY5-5				9.5 (0.37)	5.3 (0.21)	25.7 (1.01)	7.5 (0.30)					M5	#10
VY5-6				12.0 (0.47)	6.4 (0.25)	31.7 (1.25)	12.0 (0.47)					M6	1/4
VY5-8				13.5 (0.53)	8.4 (0.33)	31.7 (1.25)	12.2 (0.48)					M8	5/16

Updated 2025/4/25

VINYL-INSULATED SPADE TERMINALS (EASY-ENTRY)

- Fork design provides fast and easy installation without removing the fatener
- Insulation support helps to prevent wire damage in bending applications
- The design of the easy-entry terminal makes the installation process easier
- Material: Copper tube with tin plated end sleeves with insulation PVC



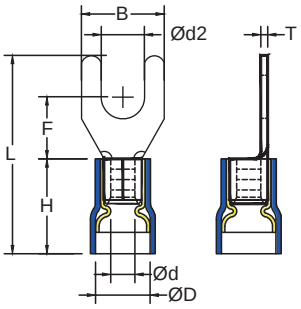
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)								Stud Size	
		sq. mm.	AWG	B	d2	L	F	H	ØD	Ød	T	mm	inch
EVY1-3	Red	0.5-1.5	22-16	5.8 (0.23)	3.2 (0.13)	21.5 (0.85)	6.3 (0.25)	10.0 (0.39)	4.1 (0.16)	1.7 (0.07)	0.75 (0.03)	M3	#4
EVY1-3.5				6.4 (0.25)	3.7 (0.15)	21.5 (0.85)	6.3 (0.25)					M3.5	#6
EVY1-4				7.2 (0.28)	4.3 (0.17)	21.5 (0.85)	6.3 (0.25)					M4	#8
EVY1-5				9.5 (0.37)	5.3 (0.21)	22.2 (0.87)	7.0 (0.28)					M5	#10
EVY1-6				12.0 (0.47)	6.4 (0.25)	27.9 (1.10)	11.0 (0.43)					M6	1/4
EVY2-3	Blue	1.5-2.5	16-14	5.8 (0.23)	3.2 (0.13)	22.2 (0.87)	6.5 (0.26)	11.0 (0.43)	4.5 (0.18)	2.3 (0.09)	0.8 (0.03)	M3	#4
EVY2-3.5				6.4 (0.25)	3.7 (0.15)	22.2 (0.87)	6.5 (0.26)					M3.5	#6
EVY2-4				7.2 (0.28)	4.3 (0.17)	22.2 (0.87)	6.5 (0.26)					M4	#8
EVY2-5				9.5 (0.37)	5.3 (0.21)	22.7 (0.89)	7.0 (0.28)					M5	#10
EVY2-6				12.0 (0.47)	6.4 (0.25)	28.4 (1.12)	11.0 (0.43)					M6	1/4
EVY5-3.5	Yellow	4-6	12-10	8.3 (0.33)	3.7 (0.15)	26.0 (1.02)	7.5 (0.30)	13.0 (0.51)	6.5 (0.26)	3.4 (0.13)	1.0 (0.04)	M3.5	#6
EVY5-4				9.5 (0.37)	4.3 (0.17)	25.7 (1.01)	7.5 (0.30)					M4	#8
EVY5-5				9.5 (0.37)	5.3 (0.21)	25.7 (1.01)	7.5 (0.30)					M5	#10
EVY5-6				12.0 (0.47)	6.4 (0.25)	31.7 (1.25)	12.0 (0.47)					M6	1/4
EVY5-8				13.5 (0.53)	8.4 (0.33)	31.7 (1.25)	12.2 (0.48)					M8	5/16

Updated 2025/4/25

VINYL-INSULATED SPADE TERMINALS (DOUBLE CRIMP)

- Fork design provides fast and easy installation without removing the fatener
- Insulation support helps to prevent wire damage in bending applications
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Copper tube with tin plated end sleeves with insulation PVC



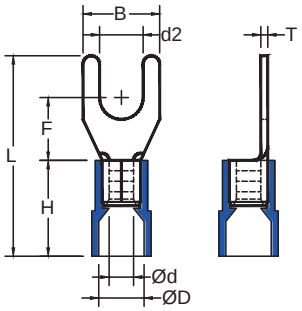
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)								Stud Size	
		sq. mm.	AWG	B	d2	L	F	H	ØD	Ød	T	mm	inch
EVY1-3C	Red	0.5-1.5	22-16	5.8 (0.23)	3.2 (0.13)	21.5 (0.85)	6.3 (0.25)	10.5 (0.41)	4.5 (0.18)	1.7 (0.07)	0.75 (0.03)	M3	#4
EVY1-3.5C				6.4 (0.25)	3.7 (0.15)	21.5 (0.85)	6.3 (0.25)					M3.5	#6
EVY1-4C				7.2 (0.28)	4.3 (0.17)	21.5 (0.85)	6.3 (0.25)					M4	#8
EVY1-5C				9.5 (0.37)	5.3 (0.21)	22.2 (0.87)	7.0 (0.28)					M5	#10
EVY1-6C				12.0 (0.47)	6.4 (0.25)	27.9 (1.10)	11.0 (0.43)					M6	1/4
EVY2-3C	Blue	1.5-2.5	16-14	5.8 (0.23)	3.2 (0.13)	21.7 (0.85)	6.5 (0.26)	10.5 (0.41)	5.0 (0.20)	2.3 (0.09)	0.8 (0.03)	M3	#4
EVY2-3.5C				6.4 (0.25)	3.7 (0.15)	21.7 (0.85)	6.5 (0.26)					M3.5	#6
EVY2-4C				7.2 (0.28)	4.3 (0.17)	21.7 (0.85)	6.5 (0.26)					M4	#8
EVY2-5C				9.5 (0.37)	5.3 (0.21)	22.2 (0.87)	7.0 (0.28)					M5	#10
EVY2-6C				12.0 (0.47)	6.4 (0.25)	27.9 (1.10)	11.0 (0.43)					M6	1/4
EVY5-3.5C	Yellow	4-6	12-10	8.3 (0.33)	3.7 (0.15)	26.0 (1.02)	7.5 (0.30)	13.0 (0.51)	6.7 (0.26)	3.4 (0.13)	1.0 (0.04)	M3.5	#6
EVY5-4C				9.5 (0.37)	4.3 (0.17)	25.7 (1.01)	7.5 (0.30)					M4	#8
EVY5-5C				9.5 (0.37)	5.3 (0.21)	25.7 (1.01)	7.5 (0.30)					M5	#10
EVY5-6C				12.0 (0.47)	6.4 (0.25)	31.7 (1.25)	12.0 (0.47)					M6	1/4
EVY5-8C				13.5 (0.53)	8.4 (0.33)	31.7 (1.25)	12.2 (0.48)					M8	5/16

Updated 2025/4/25

NYLON-INSULATED SPADE TERMINALS (EASY-ENTRY)

- Fork design provides fast and easy installation without removing the fatener
- Insulation support helps to prevent wire damage in bending applications
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- The design of the easy-entry terminal makes the installation process easier
- Material: Copper tube with tin plated end sleeves with insulation Nylon



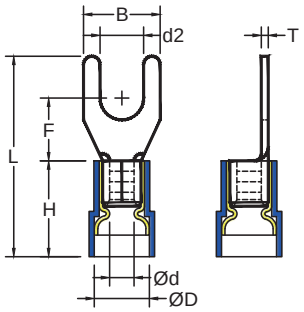
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)								Stud Size	
		sq. mm.	AWG	B	d2	L	F	H	ØD	Ød	T	mm	inch
ENY1-3	Red	0.5-1.5	22-16	5.8 (0.23)	3.2 (0.13)	22.0 (0.87)	6.3 (0.25)	11.0 (0.43)	4.1 (0.16)	1.7 (0.07)	0.75 (0.03)	M3	#4
ENY1-3.5				6.4 (0.25)	3.7 (0.15)	22.0 (0.87)	6.3 (0.25)					M3.5	#6
ENY1-4				7.2 (0.28)	4.3 (0.17)	22.0 (0.87)	6.3 (0.25)					M4	#8
ENY1-5				9.5 (0.37)	5.3 (0.21)	22.7 (0.89)	7.0 (0.28)					M5	#10
ENY1-6				12.0 (0.47)	6.4 (0.25)	28.4 (1.12)	11.0 (0.43)					M6	1/4
ENY2-3	Blue	1.5-2.5	16-14	5.8 (0.23)	3.2 (0.13)	22.2 (0.87)	6.5 (0.26)	11.0 (0.43)	4.5 (0.18)	2.3 (0.09)	0.8 (0.03)	M3	#4
ENY2-3.5				6.4 (0.25)	3.7 (0.15)	22.2 (0.87)	6.5 (0.26)					M3.5	#6
ENY2-4				7.2 (0.28)	4.3 (0.17)	22.2 (0.87)	6.5 (0.26)					M4	#8
ENY2-5				9.5 (0.37)	5.3 (0.21)	22.7 (0.89)	7.0 (0.28)					M5	#10
ENY2-6				12.0 (0.47)	6.4 (0.25)	28.4 (1.12)	11.0 (0.43)					M6	1/4
ENY5-3.5	Yellow	4-6	12-10	8.3 (0.33)	3.7 (0.15)	26.0 (1.02)	7.5 (0.30)	13.0 (0.51)	6.5 (0.26)	3.4 (0.13)	1.0 (0.04)	M3.5	#6
ENY5-4				9.5 (0.37)	4.3 (0.17)	25.7 (1.01)	7.5 (0.30)					M4	#8
ENY5-5				9.5 (0.37)	5.3 (0.21)	25.7 (1.01)	7.5 (0.30)					M5	#10
ENY5-6				12.0 (0.47)	6.4 (0.25)	31.7 (1.25)	12.0 (0.47)					M6	1/4
ENY5-8				13.5 (0.53)	8.4 (0.33)	31.7 (1.25)	12.2 (0.48)					M8	5/16

Updated 2025/4/25

NYLON-INSULATED SPADE TERMINALS (DOUBLE CRIMP)

- Fork design provides fast and easy installation without removing the fatener
- Insulation support helps to prevent wire damage in bending applications
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Copper tube with tin plated end sleeves with insulation Nylon



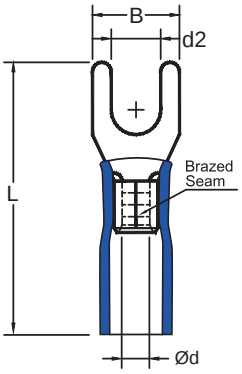
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)								Stud Size	
		sq. mm.	AWG	B	d2	L	F	H	ØD	Ød	T	mm	inch
ENY1-3C	Red	0.5-1.5	22-16	5.8 (0.23)	3.2 (0.13)	22 (0.87)	6.3 (0.25)	11.0 (0.43)	4.5 (0.18)	1.7 (0.07)	0.75 (0.03)	M3	#4
ENY1-3.5C				6.4 (0.25)	3.7 (0.15)	22.0 (0.87)	6.3 (0.25)					M3.5	#6
ENY1-4C				7.2 (0.28)	4.3 (0.17)	22.0 (0.87)	6.3 (0.25)					M4	#8
ENY1-5C				9.5 (0.37)	5.3 (0.21)	22.7 (0.89)	7.0 (0.28)					M5	#10
ENY1-6C				12 (0.47)	6.4 (0.25)	28.4 (1.12)	11.0 (0.43)					M6	1/4
ENY2-3C	Blue	1.5-2.5	16-14	5.8 (0.23)	3.2 (0.13)	22.2 (0.87)	6.5 (0.26)	11.0 (0.43)	5.0 (0.20)	2.3 (0.09)	0.8 (0.03)	M3	#4
ENY2-3.5C				6.4 (0.25)	3.7 (0.15)	22.2 (0.87)	6.5 (0.26)					M3.5	#6
ENY2-4C				7.2 (0.28)	4.3 (0.17)	22.2 (0.87)	6.5 (0.26)					M4	#8
ENY2-5C				9.5 (0.37)	5.3 (0.21)	22.7 (0.89)	7.0 (0.28)					M5	#10
ENY2-6C				12.0 (0.47)	6.4 (0.25)	28.4 (1.12)	11.0 (0.43)					M6	1/4
ENY5-3.5C	Yellow	4-6	12-10	8.3 (0.33)	3.7 (0.15)	26.0 (1.02)	7.5 (0.30)	13.0 (0.51)	6.7 (0.26)	3.4 (0.13)	1.0 (0.04)	M3.5	#6
ENY5-4C				9.5 (0.37)	4.3 (0.17)	25.7 (1.01)	7.5 (0.30)					M4	#8
ENY5-5C				9.5 (0.37)	5.3 (0.21)	25.7 (1.01)	7.5 (0.30)					M5	#10
ENY5-6C				12.0 (0.47)	6.4 (0.25)	31.7 (1.25)	12.0 (0.47)					M6	1/4
ENY5-8C				13.5 (0.53)	8.4 (0.33)	31.7 (1.25)	12.2 (0.48)					M8	5/16

Updated 2025/4/25

INSULATED HEAT SHRINKABLE SPADE TERMINALS (BRAZED SEAM)

- Brazed seam protects terminal barrel from splitting during the crimping process
- Fork design provides fast and easy installation without removing the fatener
- Insulation support helps to prevent wire damage in bending applications
- Provides excellent electrical insulation, sealing, waterproof, corrosion resistance and temperature resistance
- Material: Copper tube with tin plated end sleeves with insulation high density PE



RoHS HF

Part No.	Color	Wire Range		Dimension mm (inch)				Stud Size	
		sq. mm.	AWG	B	d2	L	Ød	mm	inch
HY1-3.5B	Red	0.5-1.5	22-16	6.4 (0.25)	3.7 (0.15)	28.0 (1.10)	1.7 (0.07)	M3.5	#6
HY1-4B				7.2 (0.28)	4.3 (0.17)	28.0 (1.10)		M4	#8
HY1-5B				9.5 (0.37)	5.3 (0.21)	29.0 (1.14)		M5	#10
HY2-3.5B	Blue	1.5-2.5	16-14	6.4 (0.25)	3.7 (0.15)	28.0 (1.10)	2.3 (0.09)	M3.5	#6
HY2-4B				7.2 (0.28)	4.3 (0.17)	28.0 (1.10)		M4	#8
HY2-5B				9.5 (0.37)	5.3 (0.21)	29.0 (1.14)		M5	#10
HY5-4B	Yellow	4-6	12-10	9.5 (0.37)	4.3 (0.17)	33.0 (1.30)	3.4 (0.13)	M4	#8
HY5-5B				9.5 (0.37)	5.3 (0.21)	33.0 (1.30)		M5	#10
HY5-6B				12.0 (0.47)	6.4 (0.25)	39.0 (1.54)		M6	1/4

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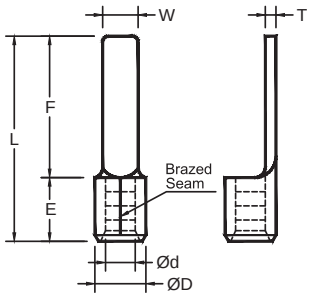
NON-INSULATED BLADE TERMINALS

- Flat blade design to prevent damage to the wire from over tightening, resulting in a reliable electrical connection
- For use with blade-type terminal blocks
- Brazed seam protects terminal barrel from splitting during the crimping process
- Material: Copper

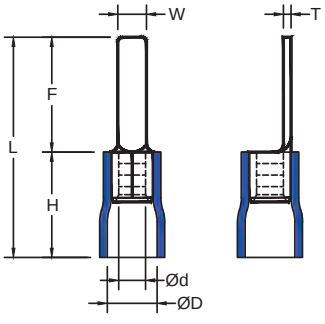


RoHS HF

Part No.	Wire Range		Dimension mm (inch)						
	sq. mm.	AWG	W	L	F	E	Ød	ØD	T
B1-9B	0.5-1.5	22-16	2.8 (0.11)	14.0 (0.55)	9.0 (0.35)	5.0 (0.20)	1.7 (0.07)	3.4 (0.13)	0.75 (0.03)
B1-12B			3.0 (0.12)	16.1 (0.63)	11.1 (0.44)				
B1-14.5B			3.0 (0.12)	19.5 (0.77)	14.5 (0.57)				
B1-18B			2.3 (0.09)	23.0 (0.91)	18.0 (0.71)				
B2-9B	1.5-2.5	16-14	2.8 (0.11)	14.0 (0.55)	9.0 (0.35)	5.0 (0.20)	2.3 (0.09)	4.1 (0.16)	0.8 (0.03)
B2-18B			2.2 (0.09)	23.2 (0.91)	18.2 (0.72)				
B5-10B	4-6	12-10	2.8 (0.11)	16.0 (0.63)	10.0 (0.39)	6.0 (0.24)	3.4 (0.13)	5.6 (0.22)	1.0 (0.04)
B5-13B			4.5 (0.18)	20.0 (0.79)	14.0 (0.55)				
B5-18B			4.5 (0.18)	24.2 (0.95)	18.2 (0.72)				

VINYL-INSULATED BLADE TERMINALS

- Flat blade design to prevent damage to the wire from over tightening, resulting in a reliable electrical connection
- For use with blade-type terminal blocks
- Insulation support helps to prevent wire damage in bending applications
- Material: Copper tube with tin plated end sleeves with insulation PVC



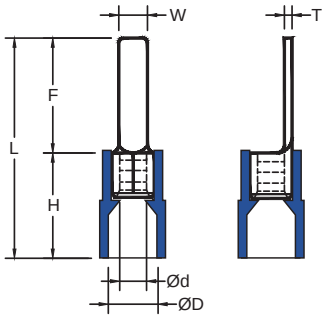
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	W	L	F	H	Ød	ØD	T
VB1-9	Red	0.5-1.5	22-16	2.8 (0.11)	19.0 (0.75)	9.0 (0.35)	10.5 (0.41)	1.7 (0.07)	4.2 (0.17)	0.75 (0.03)
VB1-14.5				3.0 (0.12)	24.5 (0.96)	14.5 (0.57)				
VB1-18				2.3 (0.09)	28.0 (1.10)	18.0 (0.71)				
VB2-9	Blue	1.5-2.5	16-14	2.8 (0.11)	19.0 (0.75)	9.0 (0.35)	11.0 (0.43)	2.3 (0.09)	4.6 (0.18)	0.8 (0.03)
VB2-18				2.2 (0.09)	28.2 (1.11)	18.2 (0.72)				
VB5-10	Yellow	4-6	12-10	2.8 (0.11)	23.0 (0.91)	10.0 (0.39)	13.0 (0.51)	3.4 (0.13)	6.6 (0.26)	1.0 (0.04)
VB5-13				4.5 (0.18)	27.2 (1.07)	14.2 (0.56)				
VB5-18				4.5 (0.18)	31.2 (1.23)	18.2 (0.72)				

Updated 2025/4/25

VINYL-INSULATED BLADE TERMINALS (EASY-ENTRY)

- Flat blade design to prevent damage to the wire from over tightening, resulting in a reliable electrical connection
- Insulation support helps to prevent wire damage in bending applications
- Material: Copper tube with tin plated end sleeves with insulation PVC

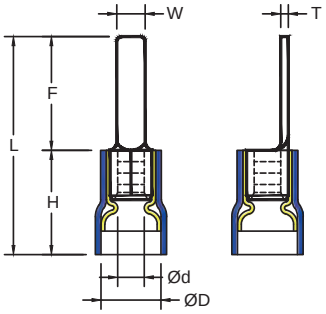


RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	W	L	F	H	Ød	ØD	T
EVB1-9	Red	0.5-1.5	22-16	2.8 (0.11)	19.5 (0.77)	9.0 (0.35)	10.5 (0.41)	1.7 (0.07)	4.1 (0.16)	0.75 (0.03)
EVB1-10				2.3 (0.09)	20.7 (0.81)	10.2 (0.40)				
EVB1-11				3.0 (0.12)	21.6 (0.85)	11.1 (0.44)				
EVB1-14				3.0 (0.12)	25.0 (0.98)	14.5 (0.57)				
EVB1-18				2.3 (0.09)	28.5 (1.12)	18.0 (0.71)				
EVB2-9	Blue	1.5-2.5	16-14	2.8 (0.11)	20.0 (0.79)	9.0 (0.35)	11.0 (0.43)	2.3 (0.09)	4.5 (0.18)	0.8 (0.03)
EVB2-10				2.2 (0.09)	21.0 (0.83)	10.0 (0.39)				
EVB2-13				2.2 (0.09)	24.0 (0.94)	13.0 (0.51)				
EVB2-18				2.2 (0.09)	29.2 (1.15)	18.2 (0.72)				
EVB5-10	Yellow	4-6	12-10	2.8 (0.11)	23.0 (0.91)	10.0 (0.39)	13.0 (0.51)	3.4 (0.13)	6.5 (0.26)	1.0 (0.04)
EVB5-14				4.5 (0.18)	27.2 (1.07)	14.2 (0.56)				
EVB5-18				4.5 (0.18)	31.2 (1.23)	18.2 (0.72)				

VINYL-INSULATED BLADE TERMINALS (DOUBLE CRIMP)

- Flat blade design to prevent damage to the wire from over tightening, resulting in a reliable electrical connection
- Insulation support helps to prevent wire damage in bending applications
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Copper tube with tin plated end sleeves with insulation PVC



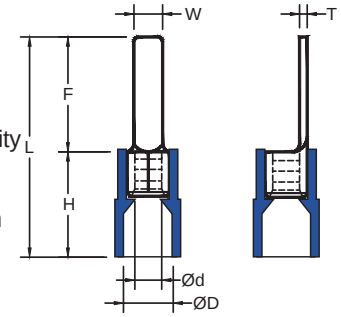
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	W	L	F	H	Ød	ØD	T
EVB1-9C	Red	0.5-1.5	22-16	2.8 (0.11)	19.5 (0.77)	9.0 (0.35)	10.5 (0.41)	1.7 (0.07)	4.5 (0.18)	0.75 (0.03)
EVB1-10C				2.3 (0.09)	20.7 (0.81)	10.2 (0.40)				
EVB1-11C				3.0 (0.12)	21.6 (0.85)	11.1 (0.44)				
EVB1-14C				3.0 (0.12)	25.0 (0.98)	14.5 (0.57)				
EVB1-18C				2.3 (0.09)	28.5 (1.12)	18.0 (0.71)				
EVB2-9C	Blue	1.5-2.5	16-14	2.8 (0.11)	19.5 (0.77)	9.0 (0.35)	10.5 (0.41)	2.3 (0.09)	5.0 (0.20)	0.8 (0.03)
EVB2-10C				2.2 (0.09)	20.5 (0.81)	10.0 (0.39)				
EVB2-13C				2.2 (0.09)	23.5 (0.93)	13.0 (0.51)				
EVB2-18C				2.2 (0.09)	28.7 (1.13)	18.2 (0.72)				
EVB5-10C	Yellow	4-6	12-10	2.8 (0.11)	23.0 (0.91)	10.0 (0.39)	13.0 (0.51)	3.4 (0.13)	6.7 (0.26)	1.0 (0.04)
EVB5-14C				4.5 (0.18)	27.2 (1.07)	14.2 (0.56)				
EVB5-18C				4.5 (0.18)	31.2 (1.23)	18.2 (0.72)				

Updated 2025/4/25

NYLON-INSULATED BLADE TERMINALS (EASY-ENTRY)

- Flat blade design to prevent damage to the wire from over tightening, resulting in a reliable electrical connection
- Insulation support helps to prevent wire damage in bending applications
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- The design of the easy-entry terminal makes the installation process easier
- Material: Copper tube with tin plated end sleeves with insulation Nylon

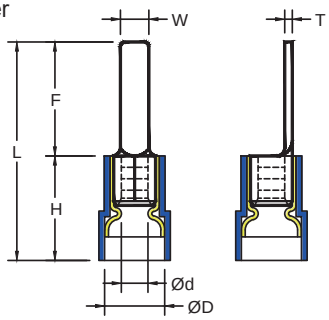


RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	W	L	F	H	Ød	ØD	T
ENB1-9	Red	0.5-1.5	22-16	2.8 (0.11)	20.0 (0.79)	9.0 (0.35)	11.0 (0.43)	1.7 (0.07)	4.1 (0.16)	0.75 (0.03)
ENB1-10				2.3 (0.09)	21.2 (0.83)	10.2 (0.40)				
ENB1-11				3.0 (0.12)	22.1 (0.87)	11.1 (0.44)				
ENB1-14				3.0 (0.12)	25.5 (1.00)	14.5 (0.57)				
ENB1-18				2.3 (0.09)	29.0 (1.14)	18.0 (0.71)				
ENB2-9	Blue	1.5-2.5	16-14	2.8 (0.11)	20.0 (0.79)	9.0 (0.35)	11.0 (0.43)	2.3 (0.09)	4.5 (0.18)	0.8 (0.03)
ENB2-10				2.2 (0.09)	21.0 (0.83)	10.0 (0.39)				
ENB2-13				2.2 (0.09)	24.0 (0.94)	13.0 (0.51)				
ENB2-18				2.2 (0.09)	29.2 (1.15)	18.2 (0.72)				
ENB5-10	Yellow	4-6	12-10	2.8 (0.11)	23.0 (0.91)	10.0 (0.39)	13.0 (0.51)	3.4 (0.13)	6.5 (0.26)	1.0 (0.04)
ENB5-14				4.5 (0.18)	27.2 (1.07)	14.2 (0.56)				
ENB5-18				4.5 (0.18)	31.2 (1.23)	18.2 (0.72)				

NYLON-INSULATED BLADE TERMINALS (DOUBLE CRIMP)

- Flat blade design to prevent damage to the wire from over tightening, resulting in a reliable electrical connection
- Insulation support helps to prevent wire damage in bending applications
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Copper tube with tin plated end sleeves with insulation Nylon



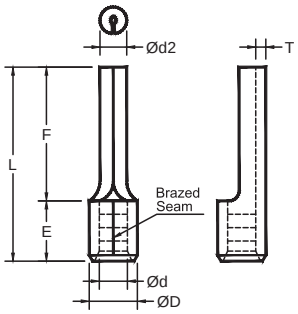
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	W	L	F	H	Ød	ØD	T
ENB1-9C	Red	0.5-1.5	22-16	2.8 (0.11)	20.0 (0.79)	9.0 (0.35)	11.0 (0.43)	1.7 (0.07)	4.5 (0.18)	0.75 (0.03)
ENB1-10C				2.3 (0.09)	21.2 (0.83)	10.2 (0.40)				
ENB1-11C				3.0 (0.12)	22.1 (0.87)	11.1 (0.44)				
ENB1-14C				3.0 (0.12)	25.4 (1.00)	14.5 (0.57)				
ENB1-18C				2.3 (0.09)	29.0 (1.14)	18.0 (0.71)				
ENB2-9C	Blue	1.5-2.5	16-14	2.8 (0.11)	20.0 (0.79)	9.0 (0.35)	11.0 (0.43)	2.3 (0.09)	5.0 (0.20)	0.8 (0.03)
ENB2-10C				2.2 (0.09)	21.0 (0.83)	10.0 (0.39)				
ENB2-13C				2.2 (0.09)	24.0 (0.94)	13.0 (0.51)				
ENB2-18C				2.2 (0.09)	29.2 (1.15)	18.2 (0.72)				
ENB5-10C	Yellow	4-6	12-10	2.8 (0.11)	23.0 (0.91)	10.0 (0.39)	13.0 (0.51)	3.4 (0.13)	6.7 (0.26)	1.0 (0.04)
ENB5-14C				4.5 (0.18)	27.0 (1.06)	14.2 (0.56)				
ENB5-18C				4.5 (0.18)	31.2 (1.23)	18.2 (0.72)				

Updated 2025/4/25

NON-INSULATED PIN TERMINALS

- Solid pin designed to prevent damage to the wire from over tightening, resulting in a reliable electrical connection
- Brazed seam protects terminal barrel from splitting during the crimping process
- Material: Copper

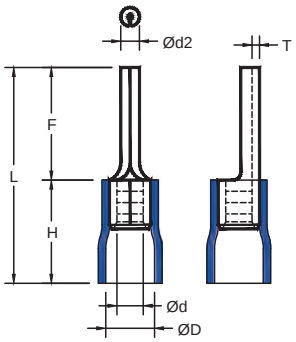


RoHS HF

Part No.	Wire Range		Dimension mm (inch)						
	sq. mm.	AWG	Ød2	L	F	E	Ød	ØD	T
P1-9B	0.5-1.5	22-16	1.9 (0.07)	15.0 (0.59)	10.0 (0.39)	5.0 (0.20)	1.7 (0.07)	3.4 (0.13)	0.75 (0.03)
P1-12B			1.9 (0.07)	17.0 (0.67)	12.0 (0.47)	5.0 (0.20)			
P2-9B	1.5-2.5	16-14	1.9 (0.07)	15.0 (0.59)	10.0 (0.39)	5.0 (0.20)	2.3 (0.09)	4.1 (0.16)	0.8 (0.03)
P2-12B			1.9 (0.07)	17.0 (0.67)	12.0 (0.47)	5.0 (0.20)			
P5-13.5B	4-6	12-10	2.7 (0.11)	20.0 (0.79)	14.0 (0.55)	6.0 (0.24)	3.4 (0.13)	5.6 (0.22)	1.0 (0.04)

VINYL-INSULATED PIN TERMINALS

- Solid pin designed to prevent damage to the wire from over tightening, resulting in a reliable electrical connection
- Insulation support helps to prevent wire damage in bending applications
- Material: Copper tube with tin plated end sleeves with insulation PVC



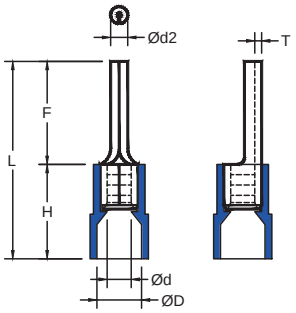
UL RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	Ød2	L	F	H	Ød	ØD	T
VP1-9	Red	0.5-1.5	22-16	1.9 (0.07)	20.0 (0.79)	10.0 (0.39)	10.0 (0.39)	1.7 (0.07)	4.2 (0.17)	0.75 (0.03)
VP1-12				1.9 (0.07)	22.0 (0.87)	12.0 (0.47)				
VP2-9	Blue	1.5-2.5	16-14	1.9 (0.07)	20.0 (0.79)	10.0 (0.39)	10.0 (0.39)	2.3 (0.09)	4.6 (0.18)	0.8 (0.03)
VP2-12				1.9 (0.07)	22.0 (0.87)	12.0 (0.47)				
VP5-13.5	Yellow	4-6	12-10	2.7 (0.11)	27.0 (1.06)	14.0 (0.55)	13.0 (0.51)	3.4 (0.13)	6.6 (0.26)	1.0 (0.04)

Updated 2025/4/25

VINYL-INSULATED PIN TERMINALS (EASY-ENTRY)

- Solid pin designed to prevent damage to the wire from over tightening, resulting in a reliable electrical connection
- Insulation support helps to prevent wire damage in bending applications
- The design of the easy-entry terminal makes the installation process easier
- Material: Copper tube with tin plated end sleeves with insulation PVC

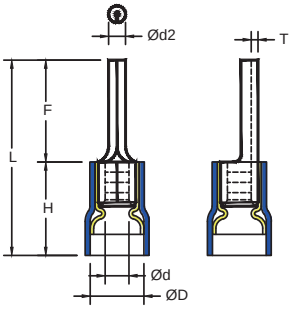


RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	Ød2	L	F	H	Ød	ØD	T
EVP1-9	Red	0.5-1.5	22-16	1.9 (0.07)	20.5 (0.81)	10.0 (0.39)	10.5 (0.41)	1.7 (0.07)	4.1 (0.16)	0.75 (0.03)
EVP1-12				1.9 (0.07)	22.5 (0.89)	12.0 (0.47)				
EVP2-9	Blue	1.5-2.5	16-14	1.9 (0.07)	21.0 (0.83)	10.0 (0.39)	11.0 (0.43)	2.3 (0.09)	4.5 (0.18)	0.8 (0.03)
EVP2-12				1.9 (0.07)	23.0 (0.91)	12.0 (0.47)				
EVP5-13.5	Yellow	4-6	12-10	2.7 (0.11)	27.0 (1.06)	14.0 (0.55)	13.0 (0.51)	3.4 (0.13)	6.5 (0.26)	1.0 (0.04)

VINYL-INSULATED PIN TERMINALS (DOUBLE CRIMP)

- Solid pin designed to prevent damage to the wire from over tightening, resulting in a reliable electrical connection
- Insulation support helps to prevent wire damage in bending applications
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Copper tube with tin plated end sleeves with insulation PVC



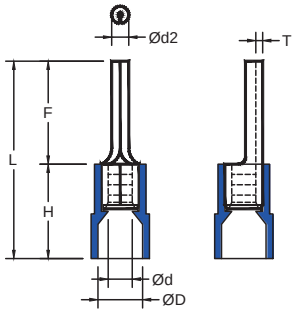
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	Ød2	L	F	H	Ød	ØD	T
EVP1-9C	Red	0.5-1.5	22-16	1.9 (0.07)	20.5 (0.81)	10.0 (0.39)	10.5 (0.41)	1.7 (0.07)	4.5 (0.18)	0.75 (0.03)
EVP1-12C				1.9 (0.07)	22.5 (0.89)	12.0 (0.47)				
EVP2-9C	Blue	1.5-2.5	16-14	1.9 (0.07)	20.5 (0.81)	10.0 (0.39)	10.5 (0.41)	2.3 (0.09)	5.0 (0.20)	0.8 (0.03)
EVP2-12C				1.9 (0.07)	22.5 (0.89)	12.0 (0.47)				
EVP5-13.5C	Yellow	4-6	12-10	2.7 (0.11)	27.0 (1.06)	14.0 (0.55)	13.0 (0.51)	3.4 (0.13)	6.7 (0.26)	1.0 (0.04)

Updated 2025/4/25

NYLON-INSULATED PIN TERMINALS (EASY-ENTRY)

- Solid pin designed to prevent damage to the wire from over tightening, resulting in a reliable electrical connection
- Insulation support helps to prevent wire damage in bending applications
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- The design of the easy-entry terminal makes the installation process easier
- Material: Copper tube with tin plated end sleeves with insulation Nylon

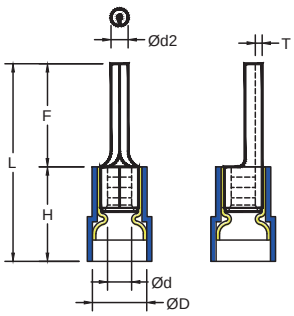


RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	Ød2	L	F	H	Ød	ØD	T
ENP1-9	Red	0.5-1.5	22-16	1.9 (0.07)	21.0 (0.83)	10.0 (0.39)	10.5 (0.41)	1.7 (0.07)	4.1 (0.16)	0.75 (0.03)
ENP1-12				1.9 (0.07)	23.0 (0.91)	12.0 (0.47)				
ENP2-9	Blue	1.5-2.5	16-14	1.9 (0.07)	21.0 (0.83)	10.0 (0.39)	11.0 (0.43)	2.3 (0.09)	4.5 (0.18)	0.8 (0.03)
ENP2-12				1.9 (0.07)	23.0 (0.91)	12.0 (0.47)				
ENP5-13.5	Yellow	4-6	12-10	2.7 (0.11)	27.0 (1.06)	14.0 (0.55)	13.0 (0.51)	3.4 (0.13)	6.5 (0.26)	1.0 (0.04)

NYLON-INSULATED PIN TERMINALS (DOUBLE CRIMP)

- Solid pin designed to prevent damage to the wire from over tightening, resulting in a reliable electrical connection
- Insulation support helps to prevent wire damage in bending applications
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Copper tube with tin plated end sleeves with insulation Nylon



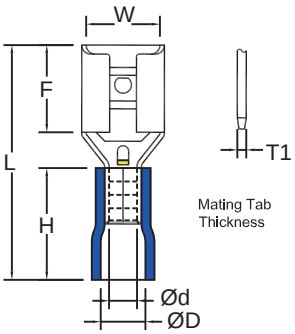
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	Ød2	L	F	H	Ød	ØD	T
ENP1-9C	Red	0.5-1.5	22-16	1.9 (0.07)	21.0 (0.83)	10.0 (0.39)	11.0 (0.43)	1.7 (0.07)	4.5 (0.18)	0.75 (0.03)
ENP1-12C				1.9 (0.07)	23.0 (0.91)	12.0 (0.47)				
ENP2-9C	Blue	1.5-2.5	16-14	1.9 (0.07)	21.0 (0.83)	10.0 (0.39)	11.0 (0.43)	2.3 (0.09)	5.0 (0.20)	0.8 (0.03)
ENP2-12C				1.9 (0.07)	23.0 (0.91)	12.0 (0.47)				
ENP5-13.5C	Yellow	4-6	12-10	2.7 (0.11)	27.0 (1.06)	14.0 (0.55)	13.0 (0.51)	3.4 (0.13)	6.7 (0.26)	1.0 (0.04)

Updated 2025/4/25

VINYL-INSULATED FEMALE DISCONNECTORS

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installation cost
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- Material: Brass, PVC

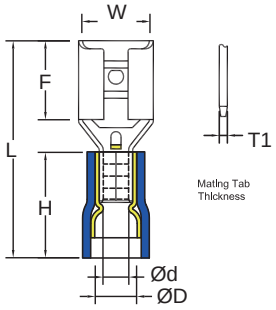


RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	W	L	F	H	Ød	ØD	T1
VF1-2.8	Red	0.5-1.5	22-16	3.2 (0.13)	18.4 (0.72)	6.4 (0.25)	10.0 (0.39)	1.7 (0.07)	4.0 (0.16)	0.8 (0.03)
VF1-4.8				5.0 (0.20)	19.0 (0.75)	6.4 (0.25)				0.8 (0.03)
VF1-5.2				5.7 (0.22)	19.0 (0.75)	5.9 (0.23)				0.5 (0.02)
VF1-6.3				6.6 (0.26)	21.0 (0.83)	7.8 (0.31)				0.8 (0.03)
VF2-2.8	Blue	1.5-2.5	16-14	3.2 (0.13)	18.4 (0.72)	6.4 (0.25)	10.0 (0.39)	2.3 (0.09)	4.5 (0.18)	0.8 (0.03)
VF2-4.8				5.0 (0.20)	19.0 (0.75)	6.4 (0.25)				0.8 (0.03)
VF2-5.2				5.7 (0.22)	19.0 (0.75)	5.9 (0.23)				0.5 (0.02)
VF2-6.3				6.6 (0.26)	21.0 (0.83)	7.8 (0.31)				0.8 (0.03)
VF5-6.3	Yellow	4-6	12-10	6.6 (0.26)	24.0 (0.94)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	5.5 (0.22)	0.8 (0.03)
VF5-9.5				10.0 (0.39)	29.0 (1.14)	12.0 (0.47)				1.2 (0.05)

VINYL-INSULATED FEMALE DISCONNECTORS (DOUBLE CRIMP)

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installation cost
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Brass, PVC



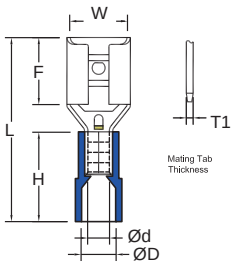
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	W	L	F	H	Ød	ØD	T1
EVF1-2.8C	Red	0.5-1.5	22-16	3.2 (0.13)	18.9 (0.74)	6.4 (0.25)	10.5 (0.41)	1.7 (0.07)	4.1 (0.16)	0.8 (0.03)
EVF1-4.8C				5.0 (0.2)0	19.5 (0.77)	6.4 (0.25)				
EVF1-5.2C				5.7 (0.22)	19.5 (0.77)	5.9 (0.23)				
EVF1-6.3C				6.6 (0.26)	21.5 (0.85)	7.8 (0.31)				
EVF2-2.8C	Blue	1.5-2.5	16-14	3.2 (0.13)	18.9 (0.74)	6.4 (0.25)	10.5 (0.41)	2.3 (0.09)	4.9 (0.19)	0.8 (0.03)
EVF2-4.8C				5.0 (0.20)	19.5 (0.77)	6.4 (0.25)				
EVF2-5.2C				5.7 (0.22)	19.5 (0.77)	5.9 (0.23)				
EVF2-6.3C				6.6 (0.26)	21.5 (0.85)	7.8 (0.31)				
EVF5-2.8C	Yellow	4-6	12-10	3.2 (0.13)	21.4 (0.84)	6.4 (0.25)	13.0 (0.51)	3.4 (0.13)	6.7 (0.26)	0.8 (0.03)
EVF5-4.8C				5.0 (0.20)	22.0 (0.87)	6.4 (0.25)				
EVF5-6.3C				6.6 (0.26)	24.0 (0.94)	7.8 (0.31)				

Updated 2025/4/25

NYLON- INSULATED FEMALE DISCONNECTORS(EASY ENTRY)

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installation cost
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- The design of the easy-entry terminal makes the installation process easier
- Material: Brass, Nylon

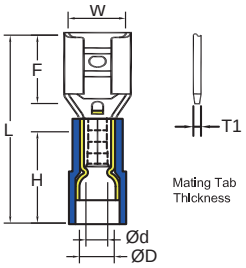


RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	W	L	F	H	Ød	ØD	T1
ENF1-2.8	Red	0.5-1.5	22-16	3.2 (0.13)	19.4 (0.76)	6.4 (0.25)	11.0 (0.43)	1.7 (0.07)	4.1 (0.16)	0.8 (0.03)
ENF1-4.8				5.0 (0.20)	20.0 (0.79)	6.4 (0.25)				
ENF1-5.2				5.7 (0.22)	20.0 (0.79)	5.9 (0.23)				
ENF1-6.3				6.6 (0.26)	22.0 (0.87)	7.8 (0.31)				
ENF1-8				8.2 (0.32)	24.0 (0.94)	10.0 (0.39)				
ENF2-2.8	Blue	1.5-2.5	16-14	3.2 (0.13)	19.4 (0.76)	6.4 (0.25)	11.0 (0.43)	2.3 (0.09)	4.5 (0.18)	0.8 (0.03)
ENF2-4.8				5.0 (0.20)	20.0 (0.79)	6.4 (0.25)				
ENF2-5.2				5.7 (0.22)	20.0 (0.79)	5.9 (0.23)				
ENF2-6.3				6.6 (0.26)	22.0 (0.87)	7.8 (0.31)				
ENF2-8				8.2 (0.32)	24.0 (0.94)	10.0 (0.39)				
ENF5-6.3	Yellow	4-6	12-10	6.6 (0.26)	24.0 (0.94)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	6.5 (0.26)	0.8 (0.03)
ENF5-9.5				10.0 (0.39)	29.0 (1.14)	12.0 (0.47)				1.2 (0.05)

NYLON-INSULATED FEMALE DISCONNECTORS (DOUBLE CRIMP)

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installation cost
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Brass, Nylon



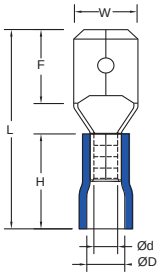
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	W	L	F	H	Ød	ØD	T1
ENF1-2.8C	Red	0.5-1.5	22-16	3.2 (0.13)	19.4 (0.76)	6.4 (0.25)	11.0 (0.43)	1.7 (0.07)	4.1 (0.16)	0.8 (0.03)
ENF1-4.8C				5.0 (0.20)	20.0 (0.79)	6.4 (0.25)				
ENF1-5.2C				5.7 (0.22)	20.0 (0.79)	5.9 (0.23)				
ENF1-6.3C				6.6 (0.26)	22.0 (0.87)	7.8 (0.31)				
ENF1-8C				8.2 (0.32)	24.0 (0.94)	10.0 (0.39)				
ENF2-2.8C	Blue	1.5-2.5	16-14	3.2 (0.13)	19.4 (0.76)	6.4 (0.25)	11.0 (0.43)	2.3 (0.09)	4.9 (0.19)	0.8 (0.03)
ENF2-4.8C				5.0 (0.20)	20.0 (0.79)	6.4 (0.25)				
ENF2-5.2C				5.7 (0.22)	20.0 (0.79)	5.9 (0.23)				
ENF2-6.3C				6.6 (0.26)	22.0 (0.87)	7.8 (0.31)				
ENF2-8C				8.2 (0.32)	24.0 (0.94)	10.0 (0.39)				
ENF5-6.3C	Yellow	4-6	12-10	6.6 (0.26)	24.0 (0.94)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	6.7 (0.26)	0.8 (0.03)
ENF5-9.5C				10.0 (0.39)	29.0 (1.14)	12.0 (0.47)				1.2 (0.05)

Updated 2025/4/25

VINYL-INSULATED MALE DISCONNECTORS

- Male tab couples with female disconnects
- Male tab can be inserted and removed from the female disconnect without the use of tools for lower installation cost
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Material: Brass, PVC

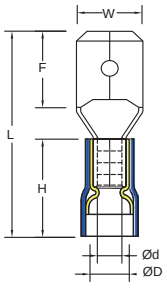


RoHS

Part No.	Color	Wire Range		Dimension mm (inch)					
		sq. mm.	AWG	W	L	F	H	Ød	ØD
VM1-2.8	Red	0.5-1.5	22-16	2.8 (0.11)	18.8 (0.74)	6.6 (0.26)	10.0 (0.39)	1.7 (0.07)	4.0 (0.16)
VM1-4.8				4.8 (0.19)	18.8 (0.74)	6.6 (0.26)			
VM1-6.3				6.3 (0.25)	21.0 (0.83)	7.8 (0.31)			
VM2-2.8	Blue	1.5-2.5	16-14	2.8 (0.11)	18.8 (0.74)	6.6 (0.26)	10.0 (0.39)	2.3 (0.09)	4.5 (0.18)
VM2-4.8				4.8 (0.19)	18.8 (0.74)	6.6 (0.26)			
VM2-6.3				6.3 (0.25)	21.0 (0.83)	7.8 (0.31)			
VM5-6.3	Yellow	4-6	12-10	6.3 (0.25)	24.0 (0.94)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	5.5 (0.22)

VINYL-INSULATED MALE DISCONNECTORS (DOUBLE CRIMP)

- Male tab can be inserted and removed from the female disconnect without the use of tools for lower installation cost
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Brass, PVC



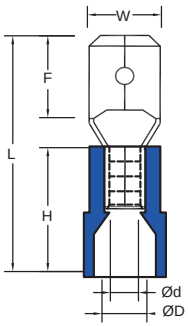
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)					
		sq. mm.	AWG	W	L	F	H	Ød	ØD
EVM1-2.8C	Red	0.5-1.5	22-16	2.8 (0.11)	19.3 (0.76)	6.6 (0.26)	10.5 (0.41)	1.7 (0.07)	4.1 (0.16)
EVM1-4.8C				4.8 (0.19)	19.3 (0.76)	6.6 (0.26)			
EVM1-6.3C				6.3 (0.25)	21.5 (0.85)	7.8 (0.31)			
EVM2-2.8C	Blue	1.5-2.5	16-14	2.8 (0.11)	19.3 (0.76)	6.6 (0.26)	10.5 (0.41)	2.3 (0.09)	4.9 (0.19)
EVM2-4.8C				4.8 (0.19)	19.3 (0.76)	6.6 (0.26)			
EVM2-6.3C				6.3 (0.25)	21.5 (0.85)	7.8 (0.31)			
EVM5-6.3C	Yellow	4-6	12-10	6.3 (0.25)	24.0 (0.94)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	6.7 (0.26)

Updated 2025/4/25

NYLON-INSULAMED MALE DISCONNECTORS (EASY-ENTRY)

- Male tab can be inserted and removed from the female disconnect without the use of tools for lower installation cost
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- The design of the easy-entry terminal makes the installation process easier
- Material: Brass, Nylon

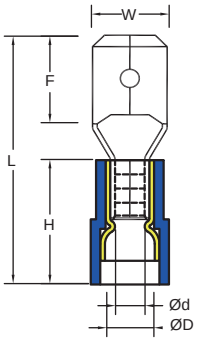


RoHS

Part No.	Color	Wire Range		Dimension mm (inch)					
		sq. mm.	AWG	W	L	F	H	Ød	ØD
ENM1-2.8	Red	0.5-1.5	22-16	2.8 (0.11)	19.8 (0.78)	6.6 (0.26)	11.0 (0.43)	1.7 (0.07)	4.1 (0.16)
ENM1-4.8				4.8 (0.19)	19.8 (0.78)	6.6 (0.26)			
ENM1-6.3				6.3 (0.25)	22.0 (0.87)	7.8 (0.31)			
ENM2-2.8	Blue	1.5-2.5	16-14	2.8 (0.11)	19.8 (0.78)	6.6 (0.26)	11.0 (0.43)	2.3 (0.09)	4.5 (0.18)
ENM2-4.8				4.8 (0.19)	19.8 (0.78)	6.6 (0.26)			
ENM2-6.3				6.3 (0.25)	22.0 (0.87)	7.8 (0.31)			
ENM5-6.3	Yellow	4-6	12-10	6.3 (0.25)	24.0 (0.94)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	6.5 (0.26)

NYLON-INSULATED MALE DISCONNECTORS (DOUBLE CRIMP)

- Male tab can be inserted and removed from the female disconnect without the use of tools for lower installation cost
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Brass, Nylon



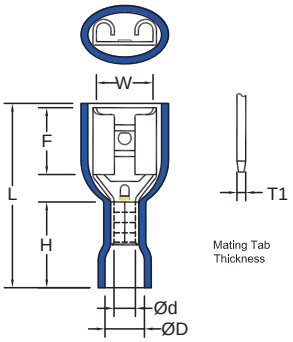
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)					
		sq. mm.	AWG	W	L	F	H	Ød	ØD
ENM1-2.8C	Red	0.5-1.5	22-16	2.8 (0.11)	19.8 (0.78)	6.6 (0.26)	11.0 (0.43)	1.7 (0.07)	4.1 (0.16)
ENM1-4.8C				4.8 (0.19)	19.8 (0.78)	6.6 (0.26)			
ENM1-6.3C				6.3 (0.25)	22.0 (0.87)	7.8 (0.31)			
ENM2-2.8C	Blue	1.5-2.5	16-14	2.8 (0.11)	19.8 (0.78)	6.6 (0.26)	11.0 (0.43)	2.3 (0.09)	5.0 (0.20)
ENM2-4.8C				4.8 (0.19)	19.8 (0.78)	6.6 (0.26)			
ENM2-6.3C				6.3 (0.25)	22.0 (0.87)	7.8 (0.31)			
ENM5-6.3C	Yellow	4-6	12-10	6.3 (0.25)	24.0 (0.94)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	6.5 (0.26)

Updated 2025/4/25

VINYL-FULLY INSULATED FEMALE DISCONNECTORS

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installation cost
- Fully insulated design provides protection from electrical shorts
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- Material: Brass, PVC

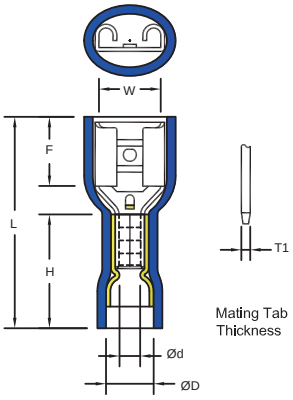


RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	W	L	F	H	Ød	ØD	T1
FVF1-4.8	Red	0.5-1.5	22-16	5.0 (0.20)	20.0 (0.79)	6.4 (0.25)	10.5 (0.41)	1.7 (0.07)	4.0 (0.16)	0.8 (0.03)
FVF1-6.3				6.6 (0.26)	22.0 (0.87)	7.8 (0.31)				
FVF2-4.8	Blue	1.5-2.5	16-14	5.0 (0.20)	20.0 (0.79)	6.4 (0.25)	10.5 (0.41)	2.3 (0.09)	4.5 (0.18)	0.8 (0.03)
FVF2-6.3				6.6 (0.26)	22.0 (0.87)	7.8 (0.31)				
FVF5-6.3	Yellow	4-6	12-10	6.6 (0.26)	24.5 (0.96)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	5.5 (0.22)	0.8 (0.03)

VINYL-FULLY INSULATED FEMALE DISCONNECTORS (DOUBLE CRIMP)

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installation cost
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Brass, PVC



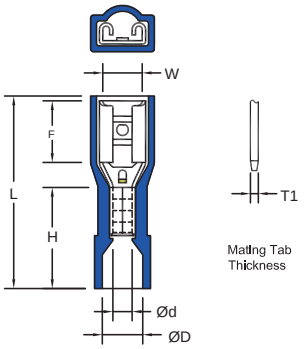
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	W	L	F	H	Ød	ØD	T1
FEVF1-2.8C	Red	0.5-1.5	22-16	3.2 (0.13)	19.4 (0.76)	6.4 (0.25)	10.5 (0.41)	1.7 (0.07)	4.1 (0.16)	0.8 (0.03)
FEVF1-4.8C				5.0 (0.20)	20.0 (0.79)	6.4 (0.25)				
FEVF1-5.2C				5.7 (0.22)	20.0 (0.79)	5.9 (0.23)				
FEVF1-6.3C				6.6 (0.26)	22.0 (0.87)	7.8 (0.31)				
FEVF2-2.8C	Blue	1.5-2.5	16-14	3.2 (0.13)	19.4 (0.76)	6.4 (0.25)	10.5 (0.41)	2.3 (0.09)	4.9 (0.19)	0.8 (0.03)
FEVF2-4.8C				5.0 (0.20)	20.0 (0.79)	6.4 (0.25)				
FEVF2-5.2C				5.7 (0.22)	20.0 (0.79)	5.9 (0.23)				
FEVF5-6.3C	Yellow	4-6	12-10	6.6 (0.26)	24.5 (0.96)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	6.7 (0.26)	0.8 (0.03)
FEVF5-9.5C				10.0 (0.39)	29.5 (1.16)	12.0 (0.47)			6.6 (0.26)	0.5 (0.02)

Updated 2025/4/25

NYLON-FULLY INSULATED FEMALE DISCONNECTORS (EASY-ENTRY)

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installation cost
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- The design of the easy-entry terminal makes the installation process easier
- Material: Brass, Nylon



RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	W	L	F	H	Ød	ØD	T1
FENF1-4.8	Red	0.5-1.5	22-16	5.0 (0.20)	20.2 (0.80)	6.4 (0.25)	11.0 (0.43)	1.7 (0.07)	4.2 (0.17)	0.8 (0.03)
FENF2-4.8	Blue	1.5-2.5	16-14	5.0 (0.20)	20.2 (0.80)	6.4 (0.25)	11.0 (0.43)	2.3 (0.09)	5.0 (0.20)	0.8 (0.03)

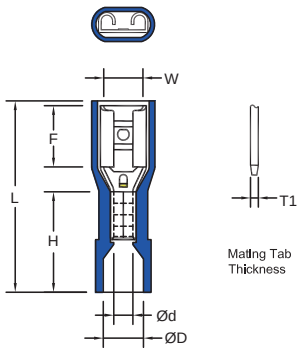


FIG-1

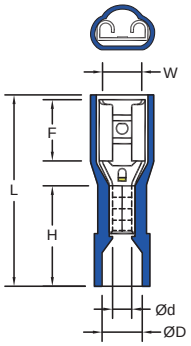


FIG-2

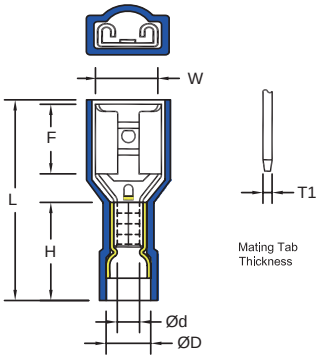
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)							FIG
		sq. mm.	AWG	W	L	F	H	Ød	ØD	T1	
FENF1-6.3	Red	0.5-1.5	22-16	6.6 (0.26)	22.5 (0.89)	7.8 (0.31)	11.0 (0.43)	1.7 (0.07)	4.2 (0.17)	0.8 (0.03)	1
FENF2-6.3	Blue	1.5-2.5	16-14	6.6 (0.26)	22.5 (0.89)	7.8 (0.31)	11.0 (0.43)	2.3 (0.09)	5.0 (0.20)	0.8 (0.03)	1
FENF5-6.3	Yellow	4-6	12-10	6.6 (0.26)	24.5 (0.96)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	6.6 (0.26)	0.8 (0.03)	2

Updated 2025/4/25

NYLON-FULLY INSULATED FEMALE DISCONNECTORS (DOUBLE CRIMP)

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installation cost
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Brass, Nylon



RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	W	L	F	H	Ød	ØD	T1
FENF1-4.8C	Red	0.5-1.5	22-16	5.0 (0.20)	20.2 (0.8)	6.4 (0.25)	11.0 (0.43)	1.7 (0.07)	4.2 (0.17)	0.8 (0.03)
FENF2-4.8C	Blue	1.5-2.5	16-14	5.0 (0.20)	20.2 (0.8)	6.4 (0.25)	11.0 (0.43)	2.3 (0.09)	5.0 (0.20)	0.8 (0.03)

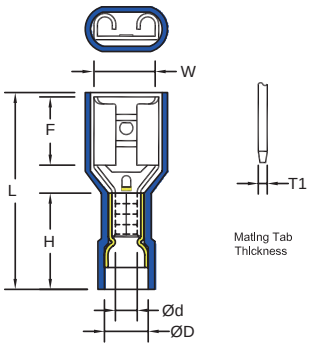


FIG-1

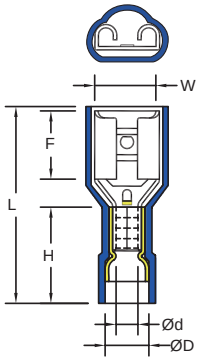


FIG-2

RoHS

Part No.	Color	Wire Range		Dimension mm (inch)							FIG
		sq. mm.	AWG	W	L	F	H	Ød	ØD	T1	
FENF1-6.3C	Red	0.5-1.5	22-16	6.6 (0.26)	22.5 (0.89)	7.8 (0.31)	11.0 (0.43)	1.7 (0.07)	4.2 (0.17)	0.8 (0.03)	1
FENF2-6.3C	Blue	1.5-2.5	16-14	6.6 (0.26)	22.5 (0.89)	7.8 (0.31)	11.0 (0.43)	2.3 (0.09)	5.0 (0.20)	0.8 (0.03)	1
FENF5-6.3C	Yellow	4-6	12-10	6.6 (0.26)	24.5 (0.96)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	6.6 (0.26)	0.8 (0.03)	2

Updated 2025/4/25

NYLON-FULLY INSULATED MALE DISCONNECTORS (EASY-ENTRY)

- Male tab can be inserted and removed from the female disconnect without the use of tools for lower installation cost
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- The design of the easy-entry terminal makes the installation process easier
- Material: Brass, Nylon

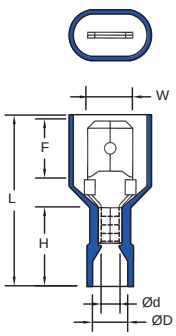


FIG-1

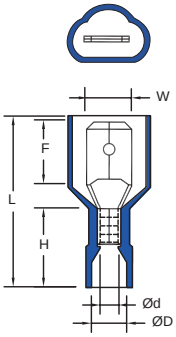


FIG-2

RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						FIG
		sq. mm.	AWG	W	L	F	H	Ød	ØD	
FENM1-6.3	Red	0.5-1.5	22-16	6.3 (0.25)	24.0 (0.94)	7.8 (0.31)	11.0 (0.43)	1.7 (0.07)	4.2 (0.17)	1
FENM2-6.3	Blue	1.5-2.5	16-14	6.3 (0.25)	24.0 (0.94)	7.8 (0.31)	11.0 (0.43)	2.3 (0.09)	5.0 (0.20)	1
FENM5-6.3	Yellow	4-6	12-10	6.3 (0.25)	25.0 (0.98)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	6.6 (0.26)	2

NYLON-FULLY INSULATED MALE DISCONNECTORS (EASY-ENTRY)

- Male tab can be inserted and removed from the female disconnect without the use of tools for lower installation cost
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- The design of the easy-entry terminal makes the installation process easier
- Material: Brass, Nylon

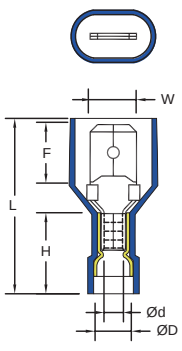


FIG-1

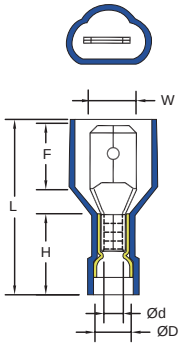


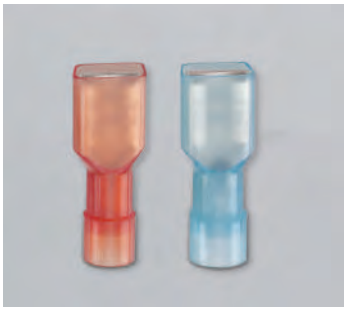
FIG-2

RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						FIG
		sq. mm.	AWG	W	L	F	H	Ød	ØD	
FENM1-6.3C	Red	0.5-1.5	22-16	6.3 (0.25)	24.0 (0.94)	7.8 (0.31)	11.0 (0.43)	1.7 (0.07)	4.2 (0.17)	1
FENM2-6.3C	Blue	1.5-2.5	16-14	6.3 (0.25)	24.0 (0.94)	7.8 (0.31)	11.0 (0.43)	2.3 (0.09)	5.0 (0.20)	1
FENM5-6.3C	Yellow	4-6	12-10	6.3 (0.25)	25.0 (0.98)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	6.6 (0.26)	2

Updated 2025/4/25

NYLON-FULLY (SQUARE) INSULATED FEMALE DISCONNECTORS (EASY-ENTRY)



- Disconnect can be inserted and removed from the male tab without the use of tools for lower installation cost
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- The design of the easy-entry terminal makes the installation process easier
- Material: Brass, Nylon

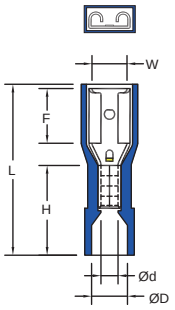


FIG-1

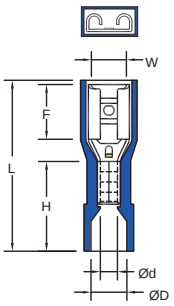
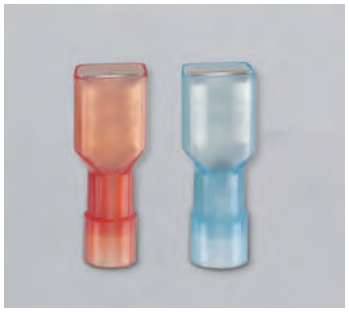


FIG-2

RoHS

Part No.	Color	Wire Range		Dimension mm (inch)							FIG
		sq. mm.	AWG	W	L	F	H	Ød	ØD	T1	
FENSF1-2.8	Red	0.5-1.5	22-16	3.2 (0.13)	19.5 (0.77)	6.4 (0.25)	11.0 (0.43)	1.7 (0.07)	4.2 (0.17)	0.8 (0.03)	1
FENSF1-6.3	Red	1.5-2.5	16-14	6.6 (0.26)	22.0 (0.87)	7.8 (0.31)	11.0 (0.43)	1.7 (0.07)	4.2 (0.17)	0.8 (0.03)	1
FENSF2-6.3	Blue	4-6	12-10	6.6 (0.26)	22.0 (0.87)	7.8 (0.31)	11.0 (0.43)	2.3 (0.09)	5.0 (0.20)	0.8 (0.03)	2

NYLON-FULLY (SQUARE) INSULATED FEMALE DISCONNECTORS (DOUBLE CRIMP)



- Disconnect can be inserted and removed from the male tab without the use of tools for lower installation cost
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Brass, Nylon

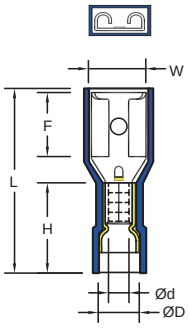
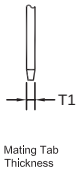


FIG-1



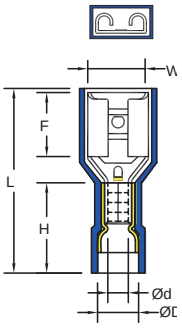


FIG-2

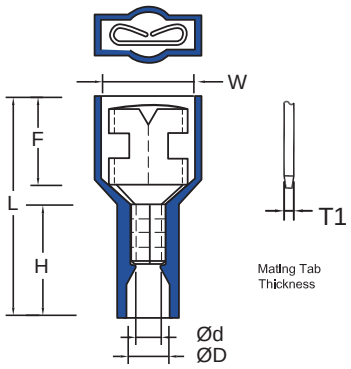
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)							FIG
		sq. mm.	AWG	W	L	F	H	Ød	ØD	T1	
FENSF1-2.8C	Red	0.5-1.5	22-16	3.2 (0.13)	19.5 (0.77)	6.4 (0.25)	11.0 (0.43)	1.7 (0.07)	4.2 (0.17)	0.8 (0.03)	1
FENSF1-6.3C	Red	1.5-2.5	16-14	6.6 (0.26)	22.0 (0.87)	7.8 (0.31)	11.0 (0.43)	1.7 (0.07)	4.2 (0.17)	0.8 (0.03)	1
FENSF2-6.3C	Blue	4-6	12-10	6.6 (0.26)	22.0 (0.87)	7.8 (0.31)	11.0 (0.43)	2.3 (0.09)	5.0 (0.20)	0.8 (0.03)	2

Updated 2025/4/25

NYLON-FULLY INSULATED FEMALE DISCONNECTORS (EASY-ENTRY)

- Male tab can be inserted and removed from the female disconnect without the use of tools for lower installation cost
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- The design of the easy-entry terminal makes the installation process easier
- Material: Brass, Nylon

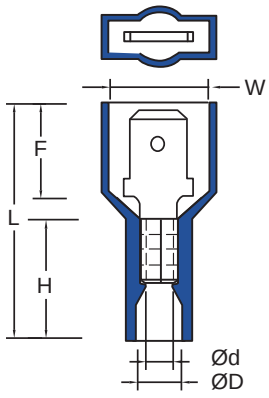


RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	W	L	F	H	Ød	ØD	T1
FENF1-6.3A	Red	0.5-1.5	22-16	6.6 (0.26)	22.5 (0.89)	7.8 (0.31)	12.0 (0.47)	1.7 (0.07)	4.0 (0.16)	0.8 (0.03)
FENF2-6.3A	Blue	1.5-2.5	16-14	6.6 (0.26)	22.5 (0.89)	7.8 (0.31)	12.0 (0.47)	2.3 (0.09)	4.5 (0.18)	0.8 (0.03)
FENF5-6.3A	Yellow	4-6	12-10	6.6 (0.26)	23.5 (0.93)	7.8 (0.31)	12.0 (0.47)	3.4 (0.13)	5.0 (0.20)	0.8 (0.03)

NYLON-FULLY INSULATED MALE DISCONNECTORS (EASY-ENTRY)

- Male tab can be inserted and removed from the female disconnect without the use of tools for lower installation cost
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- The design of the easy-entry terminal makes the installation process easier
- Material: Brass, Nylon



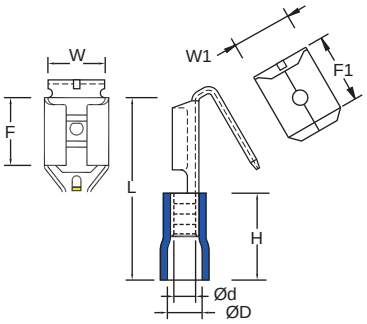
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)					
		sq. mm.	AWG	W	L	F	H	Ød	ØD
FENM1-6.3A	Red	0.5-1.5	22-16	6.3 (0.25)	24.5 (0.96)	7.8 (0.31)	11.0 (0.43)	1.7 (0.07)	4.0 (0.16)
FENM2-6.3A	Blue	1.5-2.5	16-14	6.3 (0.25)	24.5 (0.96)	7.8 (0.31)	11.0 (0.43)	2.3 (0.09)	4.5 (0.18)
FENM5-6.3A	Yellow	4-6	12-10	6.3 (0.25)	26.0 (1.02)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	5.0 (0.20)

Updated 2025/4/25

VINYL-INSULATED PIGGYBACK DISCONNECTORS

- Combination of female disconnect and male tab allows versatility in points of connection
- Multiple connection points allow additional circuits to be added to existing equipment without expensive rework
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Material: Brass, PVC

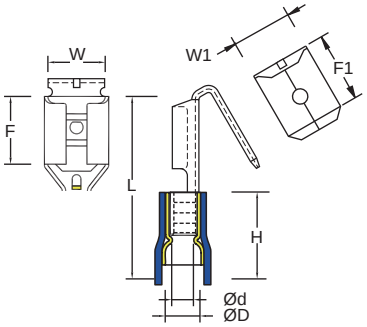


RoHS

Part No.	Color	Wire Range		Dimension mm (inch)							
		sq. mm.	AWG	W	L	F	H	Ød	ØD	W1	F1
VPB1-6.4	Red	0.5-1.5	22-16	6.6 (0.26)	21.0 (0.83)	7.8 (0.31)	10.0 (0.39)	1.7 (0.07)	4.0 (0.16)	6.3 (0.25)	8.0 (0.31)
VPB2-6.4	Blue	1.5-2.5	16-14	6.6 (0.26)	21.0 (0.83)	7.8 (0.31)	10.0 (0.39)	2.3 (0.09)	4.5 (0.18)	6.3 (0.25)	8.0 (0.31)
VPB5-6.4	Yellow	4-6	12-10	6.6 (0.26)	24.0 (0.94)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	5.5 (0.22)	6.3 (0.25)	8.0 (0.31)

VINYL- INSULATED PIGGYBACK DISCONNECTORS (DOUBLE CRIMP)

- Combination of female disconnect and male tab allows versatility in points of connection
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Brass, PVC



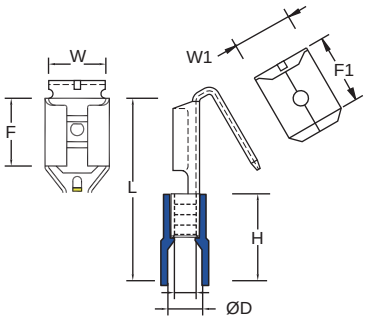
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)							
		sq. mm.	AWG	W	L	F	H	Ød	ØD	W1	F1
VPB1-6.3C	Red	0.5-1.5	22-16	6.6 (0.26)	21.5 (0.85)	7.8 (0.31)	10.5 (0.41)	1.7 (0.07)	4.0 (0.16)	6.3 (0.25)	8.0 (0.31)
VPB2-6.3C	Blue	1.5-2.5	16-14	6.6 (0.26)	21.5 (0.85)	7.8 (0.31)	10.5 (0.41)	2.3 (0.09)	4.9 (0.19)	6.3 (0.25)	8.0 (0.31)
VPB5-6.3C	Yellow	4-6	12-10	6.6 (0.26)	24 (0.94)	7.8 (0.31)	13 (0.51)	3.4 (0.13)	6.6 (0.26)	6.3 (0.25)	8.0 (0.31)

Updated 2025/4/25

NYLON- INSULATED PIGGYBACK DISCONNECTORS (EASY-ENTRY)

- Combination of female disconnect and male tab allows versatility in points of connection
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- The design of the easy-entry terminal makes the installation process easier
- Material: Brass, Nylon

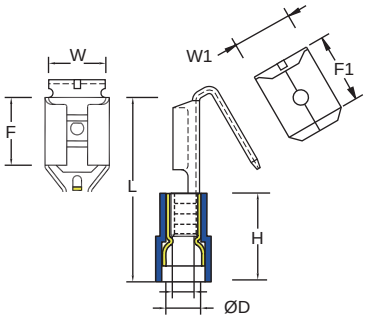


RoHS

Part No.	Color	Wire Range		Dimension mm (inch)							
		sq. mm.	AWG	W	L	F	H	Ød	ØD	W1	F1
ENPB1-6.3	Red	0.5-1.5	22-16	6.6 (0.26)	22.0 (0.87)	7.8 (0.31)	11.0 (0.43)	1.7 (0.07)	4.1 (0.16)	6.3 (0.25)	8.0 (0.31)
ENPB2-6.3	Blue	1.5-2.5	16-14	6.6 (0.26)	22.0 (0.87)	7.8 (0.31)	11.0 (0.43)	2.3 (0.09)	4.5 (0.18)	6.3 (0.25)	8.0 (0.31)
ENPB5-6.3	Yellow	4-6	12-10	6.6 (0.26)	24.0 (0.94)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	6.5 (0.26)	6.3 (0.25)	8.0 (0.31)

NYLON- FULLY INSULATED PIGGYBACK DISCONNECTORS (DOUBLE CRIMP)

- Combination of female disconnect and male tab allows versatility in points of connection
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Brass, Nylon



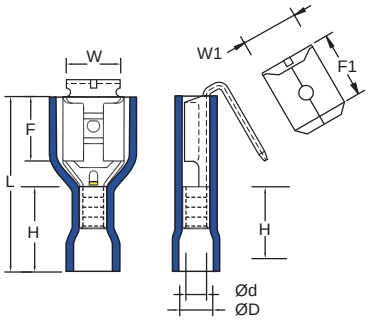
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)							
		sq. mm.	AWG	W	L	F	H	Ød	ØD	W1	F1
ENPB1-6.3C	Red	0.5-1.5	22-16	6.6 (0.26)	22.0 (0.87)	7.8 (0.31)	11.0 (0.43)	1.7 (0.07)	4.1 (0.16)	6.3 (0.25)	8.0 (0.31)
ENPB2-6.3C	Blue	1.5-2.5	16-14	6.6 (0.26)	22.0 (0.87)	7.8 (0.31)	11.0 (0.43)	2.3 (0.09)	4.9 (0.19)	6.3 (0.25)	8.0 (0.31)
ENPB5-6.3C	Yellow	4-6	12-10	6.6 (0.26)	24.0 (0.94)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	6.7 (0.26)	6.3 (0.25)	8.0 (0.31)

Updated 2025/4/25

VINYL- FULLY INSULATED PIGGYBACK DISCONNECTORS

- Combination of female disconnect and male tab allows versatility in points of connection
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- Material: Brass, PVC

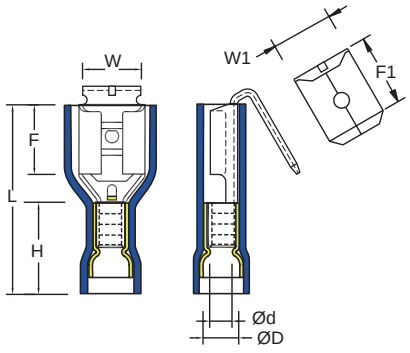


RoHS

Part No.	Color	Wire Range										
		sq. mm.	AWG	W	L	F	H	Ød	ØD	W1	F1
FVPB1-6.3	Red	0.5-1.5	22-16	6.6 (0.26)	22.0 (0.87)	7.8 (0.31)	10.5 (0.41)	1.7 (0.07)	4.0 (0.16)	6.3 (0.25)	8.0 (0.31)
FVPB2-6.3	Blue	1.5-2.5	16-14	6.6 (0.26)	22.0 (0.87)	7.8 (0.31)	10.5 (0.41)	2.3 (0.09)	4.5 (0.18)	6.3 (0.25)	8.0 (0.31)
FVPB5-6.3	Yellow	4-6	12-10	6.6 (0.26)	24.5 (0.96)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	5.5 (0.22)	6.3 (0.25)	8.0 (0.31)

VINYL- FULLY INSULATED PIGGYBACK DISCONNECTORS (DOUBLE CRIMP)

- Combination of female disconnect and male tab allows versatility in points of connection
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Brass, PVC



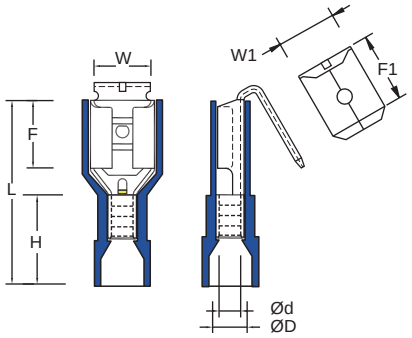
RoHS

Part No.	Color	Wire Range									
		sq. mm.	AWG	W	L	F	H	Ød	ØD	W1	F1
FEVPB1-6.3C	Red	0.5-1.5	22-16	6.6 (0.26)	22.0 (0.87)	7.8 (0.31)	10.5 (0.41)	1.7 (0.07)	4.1 (0.16)	6.3 (0.25)	8.0 (0.31)
FEVPB2-6.3C	Blue	1.5-2.5	16-14	6.6 (0.26)	22.0 (0.87)	7.8 (0.31)	10.5 (0.41)	2.3 (0.09)	4.9 (0.19)	6.3 (0.25)	8.0 (0.31)
FEVPB5-6.3C	Yellow	4-6	12-10	6.6 (0.26)	24.5 (0.96)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	6.7 (0.26)	6.3 (0.25)	8.0 (0.31)

Updated 2025/4/25

NYLON- FULLY INSULATED PIGGYBACK DISCONNECTORS (EASY-ENTRY)

- Combination of female disconnect and male tab allows versatility in points of connection
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- The design of the easy-entry terminal makes the installation process easier
- Material: Brass, Nylon

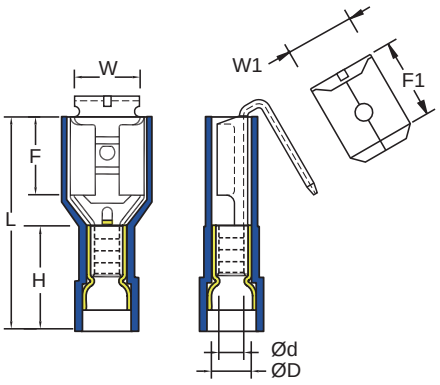


RoHS

Part No.	Color	Wire Range									
		sq. mm.	AWG	W	L	F	H	Ød	ØD	W1	F1
FENPB1-6.3	Red	0.5-1.5	22-16	6.6 (0.26)	22.5 (0.89)	7.8 (0.31)	11.0 (0.43)	1.7 (0.07)	4.2 (0.17)	6.3 (0.25)	8.0 (0.31)
FENPB2-6.3	Blue	1.5-2.5	16-14	6.6 (0.26)	22.5 (0.89)	7.8 (0.31)	11.0 (0.43)	2.3 (0.09)	5.0 (0.20)	6.3 (0.25)	8.0 (0.31)
FENPB5-6.3	Yellow	4-6	12-10	6.6 (0.26)	24.5 (0.96)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	6.6 (0.26)	6.3 (0.25)	8.0 (0.31)

NYLON- FULLY INSULATED PIGGYBACK DISCONNECTORS (DOUBLE CRIMP)

- Ccombination of female disconnect and male tab allows versatility in points of connection
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Brass, Nylon



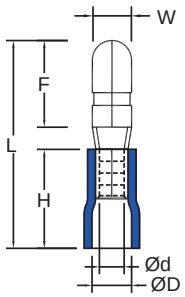
RoHS

Part No.	Color	Wire Range									
		sq. mm.	AWG	W	L	F	H	Ød	ØD	W1	F1
FENPB1-6.3C	Red	0.5-1.5	22-16	6.6 (0.26)	22.5 (0.89)	7.8 (0.31)	11.0 (0.43)	1.7 (0.07)	4.2 (0.17)	6.3 (0.25)	8.0 (0.31)
FENPB2-6.3C	Blue	1.5-2.5	16-14	6.6 (0.26)	22.5 (0.89)	7.8 (0.31)	11.0 (0.43)	2.3 (0.09)	5.0 (0.20)	6.3 (0.25)	8.0 (0.31)
FENPB5-6.3C	Yellow	4-6	12-10	6.6 (0.26)	24.5 (0.96)	7.8 (0.31)	13.0 (0.51)	3.4 (0.13)	6.6 (0.26)	6.3 (0.25)	8.0 (0.31)

Updated 2025/4/25

VINYL-INSULATED BULLET DISCONNECTORS

- Male bullet connector couples with female one
- Male bullet connector can be inserted and removed from the female disconnect without the use of tools for lower installation cost
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Material: Brass, PVC

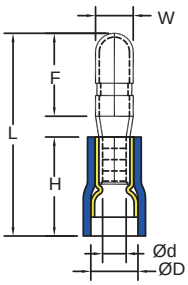


RoHS

Part No.	Color	Wire Range		Dimension mm (inch)					
		sq. mm.	AWG	ØW	L	F	H	Ød	ØD
VBM1-4	Red	0.5-1.5	22-16	4.0 (0.16)	21.0 (0.83)	8.7 (0.34)	10.0 (0.39)	1.7 (0.07)	4.0 (0.16)
VBM2-4	Blue	1.5-2.5	16-14	4.0 (0.16)	21.0 (0.83)	8.7 (0.34)	10.0 (0.39)	2.3 (0.09)	4.5 (0.18)
VBM2-5				5.0 (0.20)	21.0 (0.83)	8.9 (0.35)			
VBM5-5	Yellow	4-6	12-10	5.0 (0.20)	24.0 (0.94)	8.9 (0.35)	13.0 (0.51)	3.4 (0.13)	5.5 (0.22)

VINYL-INSULATED BULLET DISCONNECTORS (DOUBLE CRIMP)

- Male bullet connector can be inserted and removed from the female disconnect without the use of tools of lower installation cost
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Brass, PVC



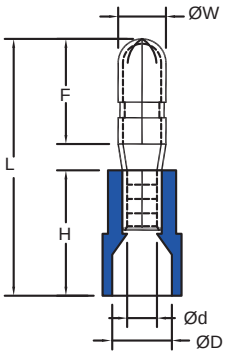
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)					
		sq. mm.	AWG	ØW	L	F	H	Ød	ØD
EVBM1-4C	Red	0.5-1.5	22-16	4.0 (0.16)	21.5 (0.85)	8.7 (0.34)	10.5 (0.41)	1.7 (0.07)	4.0 (0.16)
EVBM2-4C	Blue	1.5-2.5	16-14	4.0 (0.16)	21.5 (0.85)	8.7 (0.34)	10.5 (0.41)	2.3 (0.09)	4.9 (0.19)
EVBM2-5C				5.0 (0.20)	21.5 (0.85)	8.9 (0.35)			
EVBM5-5C	Yellow	4-6	12-10	5.0 (0.20)	24.0 (0.94)	8.9 (0.35)	13.0 (0.51)	3.4 (0.13)	6.7 (0.26)

Updated 2025/4/25

NYLON-INSULATED BULLET DISCONNECTORS (EASY-ENTRY)

- Male bullet connector can be inserted and removed from the female disconnect without the use of tools of lower installation cost
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- The design of the easy-entry terminal makes the installation process easier
- Material: Brass, Nylon

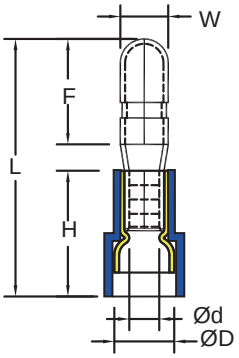


RoHS

Part No.	Color	Wire Range		Dimension mm (inch)					
		sq. mm.	AWG	ØW	L	F	H	Ød	ØD
ENBM1-4	Red	0.5-1.5	22-16	4.0 (0.16)	22.0 (0.87)	8.7 (0.34)	11.0 (0.43)	1.7 (0.07)	4.1 (0.16)
ENBM2-4	Blue	1.5-2.5	16-14	4.0 (0.16)	22.0 (0.87)	8.7 (0.34)	11.0 (0.43)	2.3 (0.09)	4.5 (0.18)
ENBM2-5				5.0 (0.20)	22.0 (0.87)	8.9 (0.35)			
ENBM5-5	Yellow	4-6	12-10	5.0 (0.20)	24.0 (0.94)	8.9 (0.35)	13.0 (0.51)	3.4 (0.13)	6.5 (0.26)

NYLON-INSULATED BULLET DISCONNECTORS (DOUBLE CRIMP)

- Male bullet connector can be inserted and removed from the female disconnect without the use of tools of lower installation cost
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Brass, Nylon



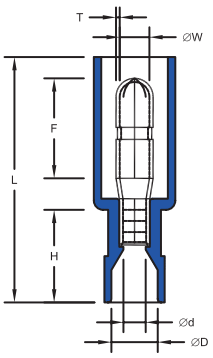
RoHS

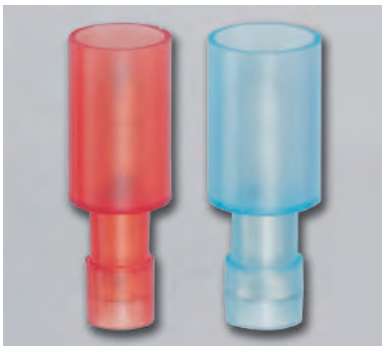
Part No.	Color	Wire Range		Dimension mm (inch)					
		sq. mm.	AWG	ØW	L	F	H	Ød	ØD
ENBM1-4C	Red	0.5-1.5	22-16	4.0 (0.16)	22.0 (0.87)	8.7 (0.34)	11.0 (0.43)	1.7 (0.07)	4.1 (0.16)
ENBM2-4C	Blue	1.5-2.5	16-14	4.0 (0.16)	22.0 (0.87)	8.7 (0.34)	11.0 (0.43)	2.3 (0.09)	4.9 (0.19)
ENBM2-5C				5.0 (0.20)	22.0 (0.87)	8.9 (0.35)			
ENBM5-5C	Yellow	4-6	12-10	5.0 (0.20)	24.0 (0.94)	8.9 (0.35)	13.0 (0.51)	3.4 (0.13)	6.7 (0.26)

Updated 2025/4/25

NYLON-FULLY INSULATED BULLET DISCONNECTORS (EASY-ENTRY)

- Male bullet connector can be inserted and removed from the female disconnect without the use of tools of lower installation cost
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- The design of the easy-entry terminal makes the installation process easier
- Material: Brass, Nylon



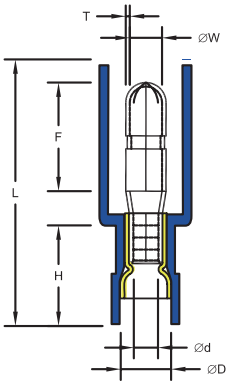


RoHS

Part No.	Color	Wire Range		Dimension mm (inch)					
		sq. mm.	AWG	ØW	L	F	H	Ød	ØD
FENBM1-4	Red	0.5-1.5	22-16	3.9 (0.15)	26.5 (1.04)	10.7 (0.42)	10.0 (0.39)	1.7 (0.07)	4.2 (0.17)
FENBM2-4	Blue	1.5-2.5	16-14	3.9 (0.15)	26.5 (1.04)	10.7 (0.42)	10.0 (0.39)	2.3 (0.09)	5.0 (0.20)

NYLON-FULLY INSULATED BULLET DISCONNECTORS (DOUBLE CRIMP)

- Male bullet connector can be inserted and removed from the female disconnect without the use of tools of lower installation cost
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Brass, Nylon



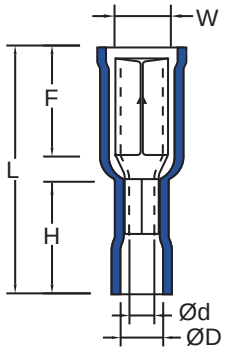
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)					
		sq. mm.	AWG	ØW	L	F	H	Ød	ØD
FENBM1-4C	Red	0.5-1.5	22-16	3.9 (0.15)	26.5 (1.04)	10.7 (0.42)	10.0 (0.39)	1.7 (0.07)	4.2 (0.17)
FENBM2-4C	Blue	1.5-2.5	16-14	3.9 (0.15)	26.5 (1.04)	10.7 (0.42)	10.0 (0.39)	2.3 (0.09)	5.0 (0.20)

Updated 2025/4/25

VINYL-FULLY INSULATED RECEPTACLE DISCONNECTORS

- Disconnect can be inserted and removed from the male bullet without the use of tools for lower installation cost
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- Material: Brass, PVC

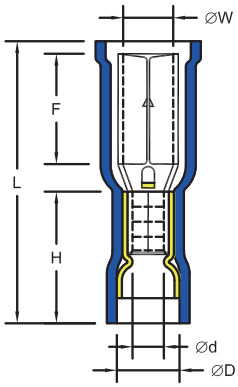


RoHS

Part No.	Color	Wire Range		Dimension mm (inch)					
		sq. mm.	AWG	ØW	L	F	H	Ød	ØD
FVBF1-4	Red	0.5-1.5	22-16	3.9 (0.15)	22.5 (0.89)	8.7 (0.34)	10.5 (0.41)	1.7 (0.07)	4.0 (0.16)
FVBF2-4	Blue	1.5-2.5	16-14	3.9 (0.15)	22.5 (0.89)	8.7 (0.34)	10.5 (0.41)	2.3 (0.09)	4.5 (0.18)
FVBF2-5				4.9 (0.19)	22.5 (0.89)	8.8 (0.35)			
FVBF5-5	Yellow	4-6	12-10	4.9 (0.19)	25.0 (0.98)	8.8 (0.35)	13.0 (0.51)	3.4 (0.13)	5.5 (0.22)

VINYL-FULLY INSULATED RECEPTACLE DISCONNECTORS (DOUBLE CRIMP)

- Disconnect can be inserted and removed from the male bullet without the use of tools of lower installation cost
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Brass, PVC



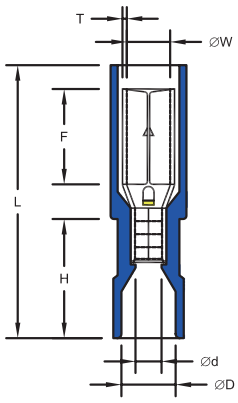
RoHS

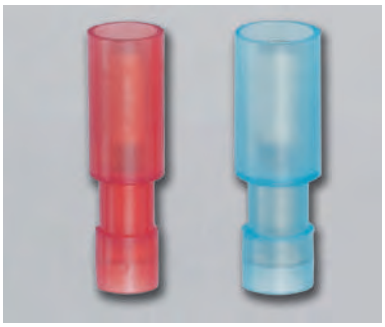
Part No.	Color	Wire Range		Dimension mm (inch)					
		sq. mm.	AWG	ØW	L	F	H	Ød	ØD
FEVBF1-4C	Red	0.5-1.5	22-16	3.9 (0.15)	22.5 (0.89)	8.7 (0.34)	10.5 (0.41)	1.7 (0.07)	4.1 (0.16)
FEVBF2-4C	Blue	1.5-2.5	16-14	3.9 (0.15)	22.5 (0.89)	8.7 (0.34)	10.5 (0.41)	2.3 (0.09)	4.9 (0.19)
FEVBF2-5C				4.9 (0.19)	22.5 (0.89)	8.8 (0.35)			
FEVBF5-5C	Yellow	4-6	12-10	4.9 (0.19)	25.0 (0.98)	8.8 (0.35)	13.0 (0.51)	3.4 (0.13)	6.7 (0.26)

Updated 2025/4/25

NYLON-FULLY INSULATED RECEPTACLE DISCONNECTORS (EASY-ENTRY)

- Disconnect can be inserted and removed from the male bullet without the use of tools of lower installation cost
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- The design of the easy-entry terminal makes the installation process easier
- Material: Brass, Nylon



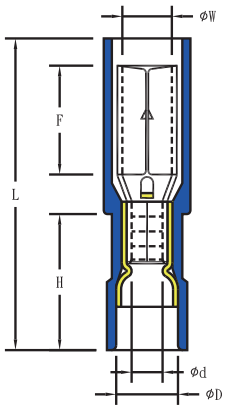


RoHS

Part No.	Color	Wire Range		Dimension mm (inch)					
		sq. mm.	AWG	ØW	L	F	H	Ød	ØD
FENBF1-4	Red	0.5-1.5	22-16	4.0 (0.16)	25.2 (0.99)	8.7 (0.34)	11.0 (0.43)	1.7 (0.07)	4.0 (0.16)
FENBF2-4	Blue	1.5-2.5	16-14	4.0 (0.16)	25.2 (0.99)	8.7 (0.34)	11.0 (0.43)	2.3 (0.09)	5.0 (0.20)

NYLON-FULLY INSULATED RECEPTACLE DISCONNECTORS (DOUBLE CRIMP)

- Disconnect can be inserted and removed from the male bullet without the use of tools of lower installation cost
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- The design of the easy-entry terminal makes the installation process easier
- Provide better conductivity and contact area
- Material: Brass, Nylon



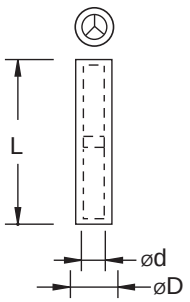
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)					
		sq. mm.	AWG	ØW	L	F	H	Ød	ØD
FENBF1-4C	Red	0.5-1.5	22-16	4.0 (0.16)	25.2 (0.99)	8.7 (0.34)	11.0 (0.43)	1.7 (0.07)	4.2 (0.17)
FENBF2-4C	Blue	1.5-2.5	16-14	4.0 (0.16)	25.2 (0.99)	8.7 (0.34)	11.0 (0.43)	2.3 (0.09)	5.0 (0.20)

Updated 2025/4/25

NON-INSULATED BUTT CONNECTORS

- Designed to splice two solid or stranded wires together to repair or lengthen wires
- Brazed seam protects terminal barrel from splitting during the crimping process
- Material: Copper



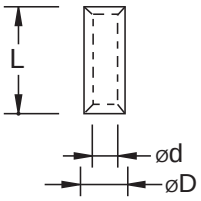
RoHS HF

Part No.	Wire Range		Dimension mm (inch)		
	sq. mm.	AWG	Ød	L	ØD
I1	0.5-1.5	22-16	1.8 (0.07)	15.0 (0.59)	3.3 (0.13)
I2	1.5-2.5	16-14	2.4 (0.09)	15.0 (0.59)	4.0 (0.16)
I5	4-6	12-10	3.6 (0.14)	15.0 (0.59)	5.5 (0.22)
I8	8	8	4.6 (0.18)	21.0 (0.83)	7.0 (0.28)
I14	14	6	5.9 (0.23)	26.0 (1.02)	8.9 (0.35)
I22	22	4	7.7 (0.30)	29.0 (1.14)	11.4 (0.45)
I38	38	2	9.4 (0.37)	32.0 (1.26)	13.3 (0.52)
I60	60	1/0	11.4 (0.45)	36.0 (1.42)	15.4 (0.61)
I70	70	2/0	13.3 (0.52)	37.0 (1.46)	17.5 (0.69)
I80	80	3/0	14.5 (0.57)	38.0 (1.50)	19.4 (0.76)
I100	100	4/0	16.4 (0.65)	38.0 (1.50)	22.0 (0.87)
I150	150	250/300	19.5 (0.77)	54.0 (2.13)	26.5 (1.04)
I180	180	300/350	21.0 (0.83)	57.0 (2.24)	28.5 (1.12)
I200	200	400/500	24.0 (0.94)	63.0 (2.48)	32.5 (1.28)
I325	325	500/600	28.0 (1.1)	72.0 (2.83)	37.0 (1.46)

Updated 2025/4/25

NON-INSULATED PARALLEL CONNECTORS

- Designed to splice two solid or stranded wires together to repair or lengthen wires
- Brazed seam protects terminal barrel from splitting during the crimping process
- Material: Copper

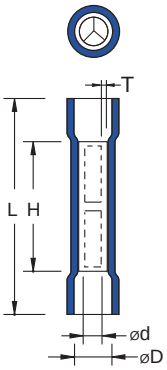


RoHS HF

Part No.	Wire Range		Dimension mm (inch)		
	sq. mm.	AWG	Ød	L	ØD
IS1	0.5-1.5	22-16	1.8 (0.07)	8.0 (0.31)	3.3 (0.13)
IS2	1.5-2.5	16-14	2.4 (0.09)	8.0 (0.31)	4.0 (0.16)
IS5	4-6	12-10	3.6 (0.14)	8.5 (0.33)	5.5 (0.22)
IS8	8	8	4.6 (0.18)	9.5 (0.37)	7.0 (0.28)
IS14	14	6	5.8 (0.23)	11.0 (0.43)	9.0 (0.35)
IS22	22	4	7.7 (0.30)	13.5 (0.53)	11.4 (0.45)
IS38	38	2	9.4 (0.37)	16.5 (0.65)	13.3 (0.52)
IS60	60	1/0	11.4 (0.45)	18.5 (0.73)	15.4 (0.61)
IS70	70	2/0	13.3 (0.52)	19.0 (0.75)	17.5 (0.69)
IS80	80	3/0	14.5 (0.57)	19.5 (0.77)	19.4 (0.76)
IS100	100	4/0	16.4 (0.65)	20.0 (0.79)	22.0 (0.87)
IS150	150	250/300	19.5 (0.77)	27.0 (1.06)	26.5 (1.04)
IS180	180	300/350	21.0 (0.83)	28.5 (1.12)	28.5 (1.12)
IS200	200	400/500	24.0 (0.94)	32.0 (1.26)	32.5 (1.28)
IS325	325	500/600	28.0 (1.10)	37.0 (1.46)	37.0 (1.46)

VINYL-INSULATED BUTT SPLICE CONNECTORS

- Expanded wire entry designed to accommodate wires with a larger insulation thickness
- Designed to splice two solid or stranded wires together to repair or lengthen wires
- Brazed seam protects terminal barrel from splitting during the crimping process
- Internal wire stop assures proper length of insertion into terminal barrel
- Material: Copper tube with tin plated end sleeves with insulation PVC



UL E318893 RoHS LISTED

Part No.	Material	Color	Wire Range		Dimension mm (inch)		
			sq. mm.	AWG	L	Ød	ØD
VI1	Copper Plate	Red	0.5-1.5	22-16	25.0 (0.98)	1.7 (0.07)	4.2 (0.17)
VI1T	Copper Tubular				25.0 (0.98)	1.7 (0.07)	4.2 (0.17)
VI2	Copper Plate	Blue	1.5-2.5	16-14	25.0 (0.98)	2.3 (0.09)	4.9 (0.19)
VI2T	Copper Tubular				25.0 (0.98)	2.3 (0.09)	4.9 (0.19)
VI5	Copper Plate	Yellow	4-6	12-10	25.0 (0.98)	3.4 (0.13)	6.6 (0.26)
VI5T	Copper Tubular				26.0 (1.02)	3.4 (0.13)	6.6 (0.26)

Updated 2025/4/25

NYLON-INSULATED BUTT SPLICE CONNECTORS (COPPER TUBULAR)

- Designed to splice two solid or stranded wires together to repair or lengthen wires
- Insulation support helps to prevent wire damage in bending applications
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- Material: Copper tube with tin plated end sleeves with insulation Nylon

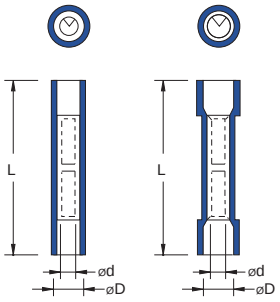
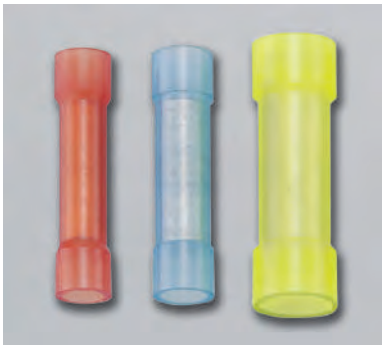


FIG-1 FIG-2

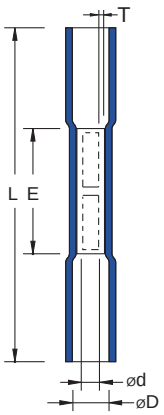


RoHS

Part No.	Color	Wire Range		Dimension mm (inch)			FIG
		sq. mm.	AWG	L	Ød	ØD	
NI0.5		0.5-1.5	22-16	20.0 (0.79)	1.2 (0.05)	2.0 (0.08)	1
NI1	Red	0.5-1.5	22-16	26.0 (1.02)	1.7 (0.07)	4.1 (0.16)	2
NI2	Blue	1.5-2.5	16-14	26.0 (1.02)	2.3 (0.09)	4.5 (0.18)	2
NI5	Yellow	4-6	12-10	27.0 (1.06)	3.4 (0.13)	6.5 (0.26)	2

HEAT SHRINKABLE-BUTT SPLICE CONNECTORS

- Designed to splice two solid or stranded wires together to repair or lengthen wires
- Insulation support helps to prevent wire damage in bending applications
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- Provides excellent electrical insulation, sealing, waterproof, corrosion resistance and temperature resistance
- Material: Copper tube with tin plated end sleeves with insulation high density PE



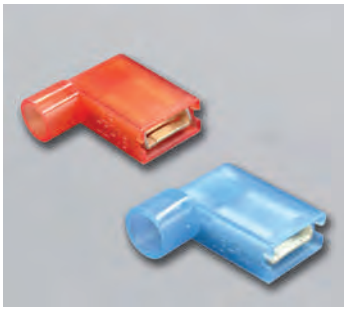
RoHS HF

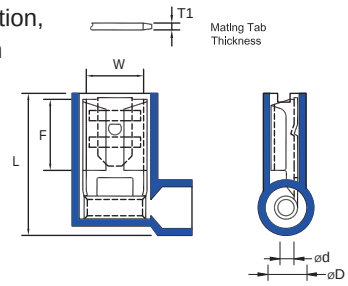
Part No.	Color	Wire Range		Dimension mm (inch)		
		sq. mm.	AWG	Ød	L	E
HI1	Red	0.5-1.5	22-16	1.7 (0.07)	37.0 (1.46)	15.0 (0.59)
HI2	Blue	1.5-2.5	16-14	2.3 (0.09)	37.0 (1.46)	15.0 (0.59)
HI5	Yellow	4-6	12-10	3.4 (0.13)	41.0 (1.61)	15.0 (0.59)

Updated 2025/4/25

NYLON INSULATED FLAG FEMALE DISCONNECTORS (EASY-ENTRY)

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installation cost
- Better mechanical strength, high temperature resistance, chemical corrosion resistance and durability
- Effectively prevent electric shock hazards caused by current short circuit or accidental touch
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications.
- The design of the easy-entry terminal makes the installation process easier
- Material: Brass, Nylon





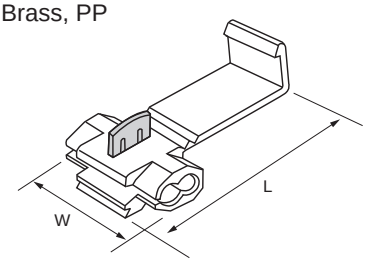
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)						
		sq. mm.	AWG	ØW	W	L	F	Ød	ØD	T
FENL1-6.3	Red	0.5-1.5	22-16	4.0 (0.16)	6.6 (0.26)	16 (0.63)	7.8 (0.31)	1.7 (0.07)	4.4 (0.17)	0.8 (0.03)
FENL2-6.3	Blue	1.5-2.5	16-14	4.0 (0.16)	6.6 (0.26)	16 (0.63)	7.8 (0.31)	2.3 (0.09)	5.0 (0.20)	0.8 (0.03)

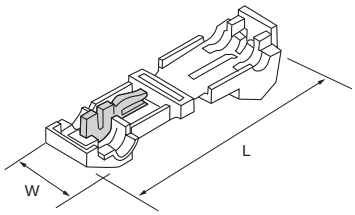
QUICK SPLICES

- Metal connector can cut through the insulation of both wires and make a firm electrical connection between them, all in one action
- The folding cover of the connector can be closed to provide further protection of the connection
- Material: Brass, PP

QST Type



QSA Type



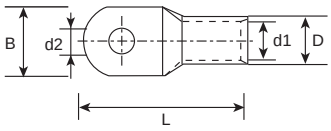
RoHS

Part No.	Color	Wire Range		Dimension mm (inch)	
		sq. mm.	AWG	W	L
QST1	Red	0.5-1.5	22-18	19.5 (0.77)	30.5 (1.20)
QST2	Blue	1.5-2.5	16-14	19.5 (0.77)	30.5 (1.20)
QST5	Yellow	4-6	12-10	20.0 (0.79)	32.0 (1.26)
QSA1	Red	0.5-1.5	22-18	9.5 (0.37)	38.0 (1.50)
QSA2	Blue	1.5-2.5	16-14	9.5 (0.37)	38.0 (1.50)

Updated 2025/4/25

COPPER/CABLE LUGS

- Made from superior grade of cooper to ensure most efficient electrical conductivity
- Surface is electrolytically tin-plated to avoid oxidation
- Comply with DIN 46234 for wire containment
- Cooper tube is special designed to reach the most strength to resist vibration and pull out
- The length of lug barrel is designed to allow easy and accurate crimping operation
- Material: Copper



RoHS HF

Part No.	Wire Range		Dimension mm (inch)						
	sq. mm.	AWG	B	Ød2	L	F	E	Ød	ØD
SC10-6	10	8	10.0 (0.39)	6.4 (0.25)	25.0 (0.98)	10.0 (0.39)	9.0 (0.35)	4.5 (0.18)	6.2 (0.24)
SC10-8	10	8	12.6 (0.50)	8.4 (0.33)	26.0 (1.02)	10.0 (0.39)	9.0 (0.35)	4.5 (0.18)	6.2 (0.24)
SC16-8	16	6	12.6 (0.50)	8.4 (0.33)	30.0 (1.18)	11.0 (0.43)	12.0 (0.47)	5.4 (0.21)	7.1 (0.28)
SC25-8	25	4	12.6 (0.50)	8.4 (0.33)	3.0 (1.18)	11.0 (0.43)	12.0 (0.47)	6.8 (0.27)	8.8 (0.35)
SC35-8	35	2	15.0 (0.59)	8.4 (0.33)	35.0 (1.38)	14.0 (0.55)	13.0 (0.51)	8.2 (0.32)	10.6 (0.42)
SC35-10	35	2	15.0 (0.59)	10.5 (0.41)	35.0 (1.38)	14.0 (0.55)	13.0 (0.51)	8.2 (0.32)	10.6 (0.42)
SC50-8	50	1/0	18.0 (0.71)	8.4 (0.33)	43.0 (1.69)	17.0 (0.67)	16.0 (0.63)	9.5 (0.37)	12.4 (0.49)
SC50-10	50	1/0	18.0 (0.71)	10.5 (0.41)	43.0 (1.69)	17.0 (0.67)	16.0 (0.63)	9.5 (0.37)	12.4 (0.49)
SC50-12	50	1/0	19.0 (0.75)	13.0 (0.51)	43.0 (1.69)	17.0 (0.67)	16.0 (0.63)	9.5 (0.37)	12.4 (0.49)
SC70-10	70	2/0	21.0 (0.83)	10.5 (0.41)	50.0 (1.97)	18.0 (0.71)	20.0 (0.79)	11.2 (0.44)	14.7 (0.58)
SC95-10	95	3/0	25.5 (1.00)	10.5 (0.41)	55.0 (2.17)	22.0 (0.87)	20.0 (0.79)	13.5 (0.53)	17.4 (0.69)
SC95-12	95	3/0	25.5 (1.00)	13.0 (0.51)	55.0 (2.17)	22.0 (0.87)	20.0 (0.79)	13.5 (0.53)	17.4 (0.69)
SC120-10	120	4/0	28.0 (1.10)	10.5 (0.41)	60.0 (2.36)	24.0 (0.94)	22.0 (0.87)	15.0 (0.59)	19.4 (0.76)
SC120-12	120	4/0	28.0 (1.10)	13.0 (0.51)	60.0 (2.36)	24.0 (0.94)	22.0 (0.87)	15.0 (0.59)	19.4 (0.76)
SC120-14	120	4/0	28.0 (1.10)	15.0 (0.59)	60.0 (2.36)	24.0 (0.94)	22.0 (0.87)	15.0 (0.59)	19.4 (0.76)
SC150-12	150	250/300	30.5 (1.20)	13.0 (0.51)	69.0 (2.72)	27.0 (1.06)	26.0 (1.02)	16.5 (0.65)	21.2 (0.83)
SC150-14	150	250/300	30.5 (1.20)	15.0 (0.59)	69.0 (2.72)	27.0 (1.06)	26.0 (1.02)	16.5 (0.65)	21.2 (0.83)
SC150-16	150	250/300	30.5 (1.20)	17.0 (0.67)	69.0 (2.72)	27.0 (1.06)	26.0 (1.02)	16.5 (0.65)	21.2 (0.83)
SC185-12	185	300/350	34.0 (1.34)	13.0 (0.51)	78.0 (3.07)	29.0 (1.14)	32.0 (1.26)	18.5 (0.73)	23.5 (0.93)
SC185-14	185	300/350	34.0 (1.34)	15.0 (0.59)	78.0 (3.07)	29.0 (1.14)	32.0 (1.26)	18.5 (0.73)	23.5 (0.93)
SC185-16	185	300/350	3.0 (1.34)	17.0 (0.67)	78.0 (3.07)	29.0 (1.14)	32.0 (1.26)	18.5 (0.73)	23.5 (0.93)
SC240-14	240	400/450	38.5 (1.52)	15.0 (0.59)	92.0 (3.62)	34.0 (1.34)	38.0 (1.5)	21.0 (0.83)	26.5 (1.04)
SC240-16	240	400/450	38.5 (1.52)	17.0 (0.67)	92.0 (3.62)	34.0 (1.34)	38.0 (1.5)	21.0 (0.83)	26.5 (1.04)
SC300-14	300	500	43.5 (1.71)	15.0 (0.59)	101.0 (3.98)	37.0 (1.46)	42.0 (1.65)	23.5 (0.93)	30.0 (1.18)
SC300-16	300	500	43.5 (1.71)	17.0 (0.67)	101.0 (3.98)	37.0 (1.46)	42.0 (1.65)	23.5 (0.93)	30.0 (1.18)

Updated 2025/4/25

CHOICE AND CRIMPING OF TERMINALS

Choice of The Connector

In order to obtain a connection that can be guaranteed for a long time it is necessary to select the connector suitable to the application field and strictly conformed to the section of the cable to be crimped (see the table below). In the large range of Hua Wei's products you will certainly find the ideal solution for every requirement.

Conductor		
AWG	Area (sq.mm)	Diameter (mm)
22	0.324	0.643
21	0.412	0.724
20	0.519	0.813
19	0.567	0.912
18	0.811	1.02
17	1.04	1.15
16	1.31	1.29
15	1.65	1.45
14	2.08	1.63
13	2.63	1.83
12	3.31	2.05
11	4.17	2.3
10	5.26	2.59

Conductor		
AWG	Area (sq.mm)	Diameter (mm)
9	6.63	2.91
8	8.37	3.26
7	10.6	3.66
6	13.3	4.12
5	16.7	4.62
4	21.2	5.19
3	26.7	5.82
2	33.6	6.54
1	42.4	7.35
1/0	53.5	8.25
2/0	67.4	9.26
3/0	85.01	10.4
4/0	107.2	11.68

Conductor		
MCM	Area (sq.mm)	Diameter (mm)
250	126.6	12.7
300	152.1	13.92
350	177.6	14.04
400	202.2	15.04
450	228	16.05
500	253.4	17.95
550	278.9	18.85
600	304.3	19.69
650	329.4	20.47
750	380	21.99
800	404.4	22.73
1000	506.8	25.43
1250	633.8	28.43

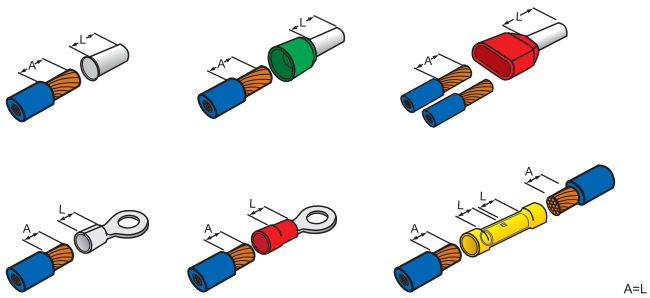
Stripping

Every crimping operation requires that the cable is first stripped without deforming the wires and for a length as indicated bellow:

Section (sq.mm)	Stripping Tolerance (± mm)
0.5-2.5	0.8
4.0-6.0	1.2
10-120	1.6
150-630	3.2

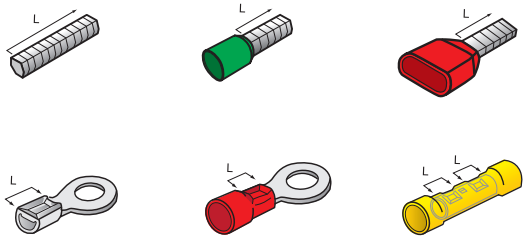
Assembling

Fit into the connector the cable with a round section for the complete length of the stripped area. Verifiy that there are not wires out of the connector. If you need to use sectorals cables you must arrange a previous rounded crimping operation of the cable as follow:



Using The Crimping Tool to Crimp The Terminals

Make the crimping operation shown as the drawing bellow:



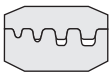
L: Section to be crimped

Updated 2025/4/11

TOOLS

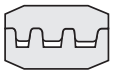
Due to the high quality of their components, to the ruggedness and simple working, they are particularly suggested for industrial uses. Dies are made of microcasted steel and handles of pressed steel with insulation of plastic material for soft and ergonomic handling. Possibility to adjust the crimping force throught the central pin. Equipped with safety device and automatic unclamping to prevent the accidental opening of the dies before the complete execution of the crimping operation, so that uniformity of the connections is always guaranteed.

TOOLS FOR CORD-END TERMINALS



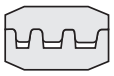
GIT-516E1

- For terminals with wire range: 0.5~4 mm² (22-12 AWG)
- Length: 230 mm (9.06 inch)
- Weight: 600 g (1.32 lbs)



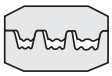
GIT-516E2

- For terminals with wire range: 6~16 mm² (10-6 AWG)
- Length: 230 mm (9.06 inch)
- Weight: 600 g (1.32 lbs)



GIT-516E3

- For terminals with wire range: 10~25 mm² (8-4 AWG)
- Length: 230 mm (9.06 inch)
- Weight: 600 g (1.32 lbs)

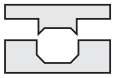


GIT-516E4

- For terminals with wire range: 25~50 mm² (4-1/0 AWG)
- Length: 240 mm (9.45 inch)
- Weight: 600 g (1.32 lbs)

GIT-518

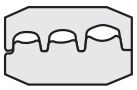
- For terminals with wire range: 50~150 mm² (250/300 AWG)
- Length: 380 mm (14.96 inch)
- Weight: 3,180 g (7.01 lbs)



Updated 2025/4/11

TOOLS

TOOLS FOR TERMINALS



GIT-516T1

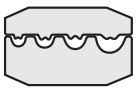
- For insulated terminals and connectors
- Applicable range: 0.5~6 mm² (20-10 AWG)
  - 0.5~1.5 mm² (20-16 AWG)
  - 2.5 mm² (14 AWG)
  - 4~6 mm² (12-10 AWG)
- Length: 230 mm (9.06 inch)
- Weight: 600 g (1.32 lbs)

GIT-516T2

- For insulated terminals and connectors
- Applicable range: 10~16 mm² (8-6 AWG)
- Length: 230 mm (9.06 inch)
- Weight: 600 g (1.32 lbs)

GIT-516T3

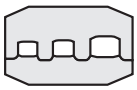
- For non-insulated terminals
- Applicable range: 1.5~10 mm² (16-8 AWG)
- Length: 230 mm (9.06 inch)
- Weight: 600 g (1.32 lbs)



GIT-516T4

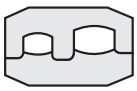
- For non-insulated terminals
- Applicable range: 2.5~16 mm² (14-6 AWG)
- Length: 230 mm (9.06 inch)
- Weight: 600 g (1.32 lbs)

TOOLS FOR C SERIES CLOSED-END CRIMP CONNECTORS



GIT-517C1

- Suitable wire range: 0.5~6 mm² (20-10 AWG)
- Length: 230 mm (9.06 inch)
- Weight: 600 g (1.32 lbs)



GIT-517C5

- Suitable wire range: 4~10 mm² (12-8 AWG)
- Length: 230 mm (9.06 inch)
- Weight: 600 g (1.32 lbs)

Updated 2025/4/11

SECURITY SEALS







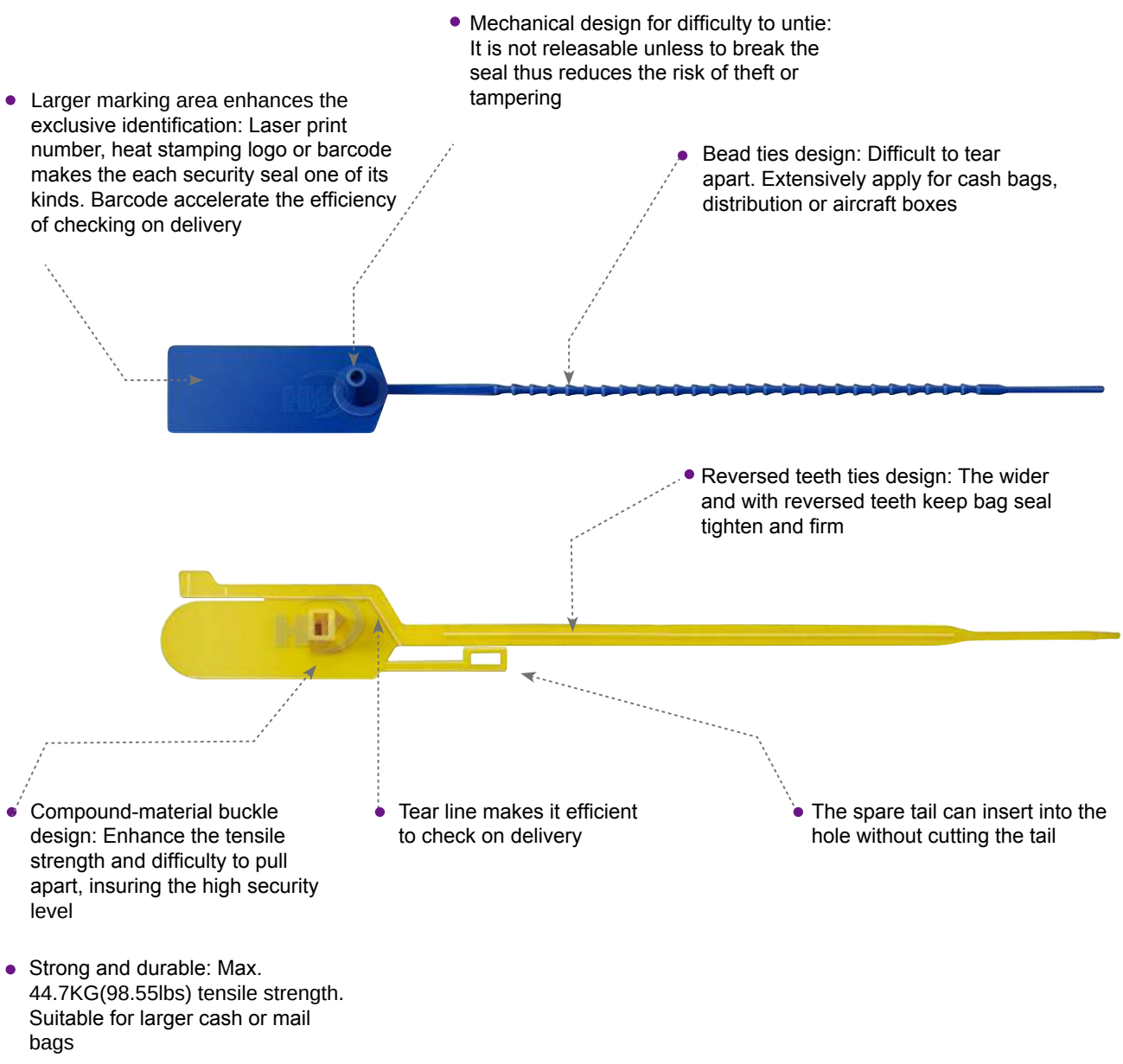

FEATURES OF SECURITY SEALS

Security Seals: The Best Safety Solution for Airlines, Logistics, and Banks

Although the security seals and cable ties look alike, but its design for safety level and unique identification meet the security regulation of customhouse and logistic industry. The characteristic of preventing theft, tampering and smuggling update the global logistic efficiency and security.

Applications:

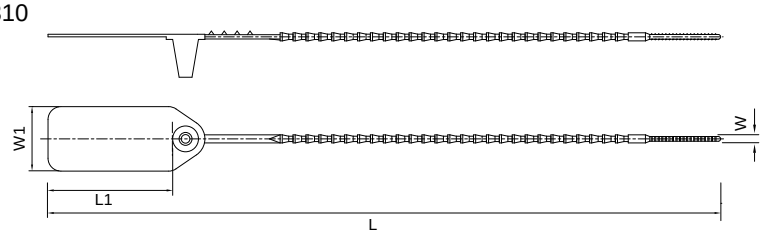
- Banks: Cash bags
- Airlines: Dining boxes, duty-free goods boxes
- Logistics: Delivery boxes, container and vehicle door
- Post office/ Express delivery: Parcel bags
- Special industries: Medical waste process boxes, chemical barrels, fire extinguishers
- All professions: Classified document bags, confidential packages



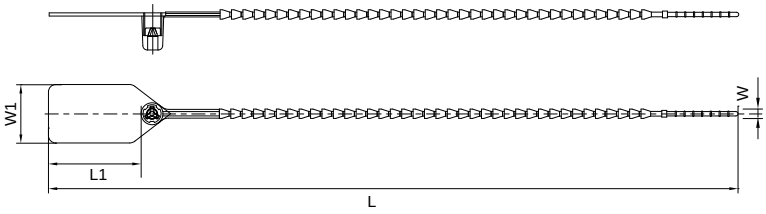
BAG SEALS

- Large marker area for detail logo or idenfication numbers
- Material: Polyamide 6 or PP
- Color: All colors are available

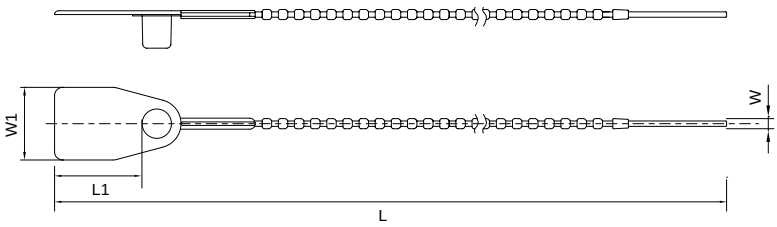
HLP-310



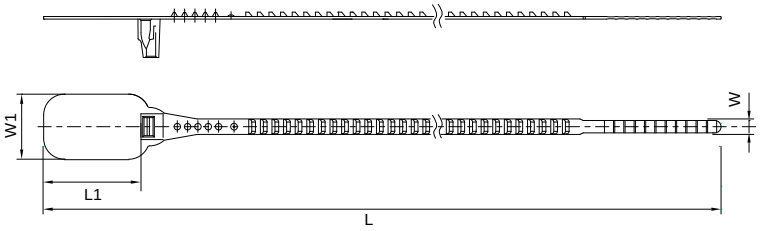
HLP-235

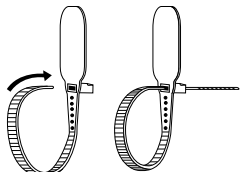


HLX-310

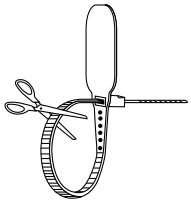


HLP-330





1. Loop tail around item to be sealed. Insert tail end through the locking chamber and pull tight.



2. Break seal using appropriate cutters.

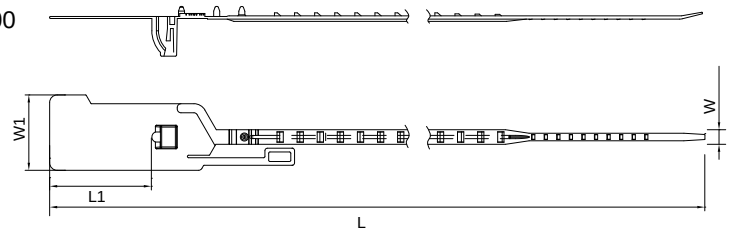
RoHS HF

Part No.	Length mm (inch)	Width mm (inch)	Marker Area		Max.Bundle ø mm (inch)	Min. Loop Tensile Strength		
			L1 mm (inch)	W1 mm (inch)		N	kgf	lbf
HL-310	313 (12.32)	3.8 (0.15)	56.0 (2.20)	30.3 (1.19)	65.6 (2.58)	235	24.0	53
HLP-235	237 (9.33)	3.2 (0.13)	32.0 (1.26)	20.1 (0.79)	48.0 (1.89)	126	12.8	28
HLX-310	318 (12.52)	3.8 (0.15)	29.5 (1.16)	27.2 (1.07)	68.0 (2.68)	231	23.6	52
HLP-330	330 (12.99)	6.0 (0.24)	38.0 (1.50)	25.2 (0.99)	67.0 (2.64)	201	20.5	45

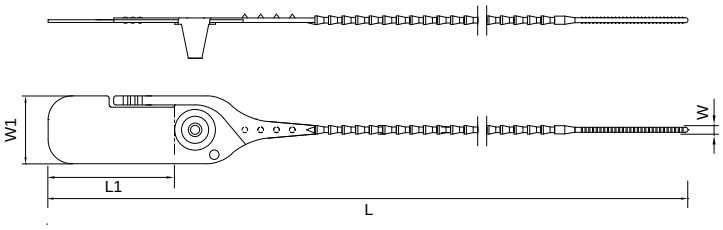
MULTI-PURPOSE BAG SEALS

- Large marker area for detail logo or idenfication numbers
- Remove seal by pulling along tear line
- Material: Polyamide 6 or PP
- Color: All colors are available

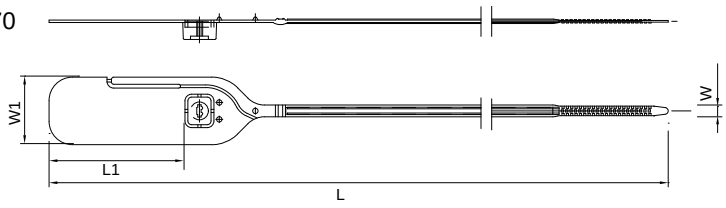
HLP-300



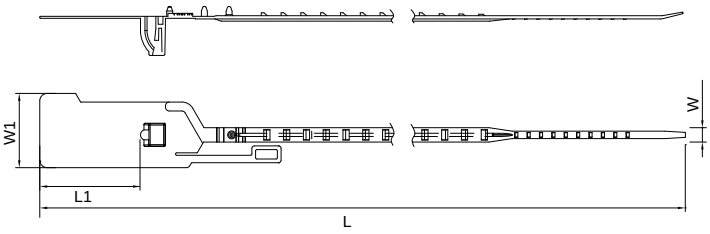
HL-430



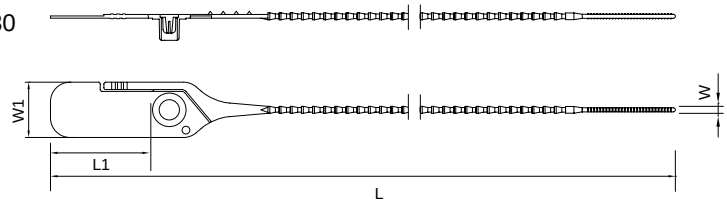
HLP-370

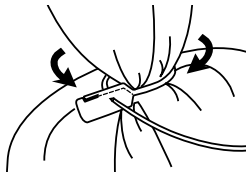


HLP-420

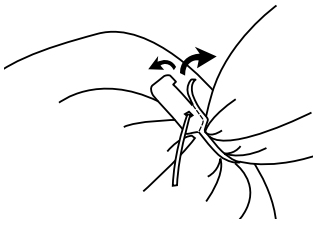


HLX-430





1. Loop tail around item to be sealed. Insert tail end through the locking chamber and pull tight.



2. Just pull along tear line to remove the seal.

RoHS HF

Part No.	Length mm (inch)	Width mm (inch)	Marker Area		Max.Bundle ø mm (inch)	Min. Loop Tensile Strength		
			L1 mm (inch)	W1 mm (inch)		N	kgf	lbf
HLP-300	302 (11.89)	5.8 (0.23)	41.0 (1.61)	30.3 (1.19)	50.0 (1.97)	392	40.0	88
HL-430	435 (17.13)	3.8 (0.15)	56.0 (2.20)	30.0 (1.18)	99.0 (3.90)	235	24.0	53
HLP-370	370 (12.09)	5.4 (0.22)	60.5 (2.38)	30.7 (1.21)	71.0 (2.80)	235	24.0	53
HLP-420	422 (16.61)	5.8 (0.23)	41.0 (1.61)	30.3 (1.19)	88.0 (3.46)	438	44.7	98
HLX-430	433 (17.05)	3.8 (0.15)	55.0 (2.17)	29.7 (1.17)	93.0 (3.66)	328	33.4	74

HUA WEI INDUSTRIAL CO., LTD.

HEADQUARTERS

NO.1, GONGYEQU 26TH RD., NANTUN DIST.,
TAICHUNG CITY, 40850, TAIWAN
TEL: +886-4-23597777
FAX: +886-4-23596705~6
Email: service@hwlok.com
http://www.hwlok.com

FACTORIES

Taichung, Taiwan
Dongguan, China
Chonburi, Thailand
Rayong, Thailand

XX302-027-EN600H0001-17D