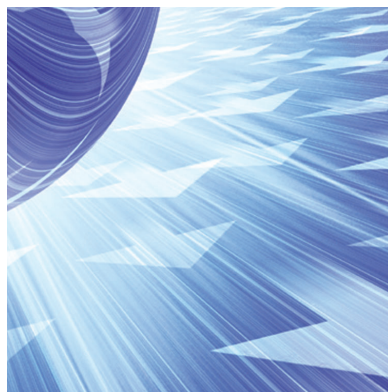


CATALOG



Crimping System



Crimping System



Catalog list

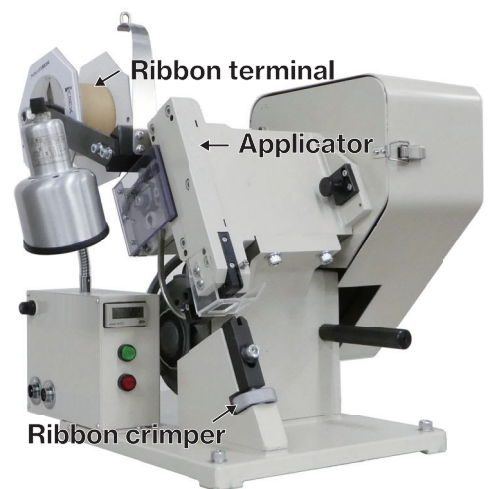
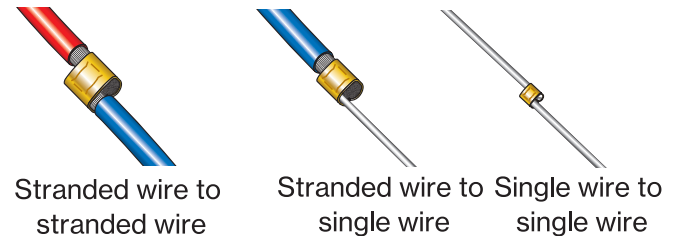
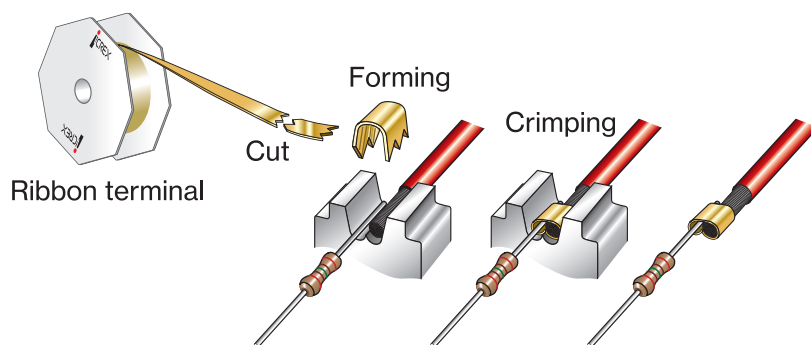
<p>Full custom pin headers</p>	<p>Semi-custom pin headers</p>	<p>Female Headers</p>	<p>Custom SMT Parts & Components</p>
<p>Chain Terminal Insert Systems</p>	<p>Pin Terminals, Lead-Pin</p>	<p>Flexible board connectors</p>	<p>PCB with terminals</p>
<p>Mini Jumpers</p>	<p>Assembly Services</p>	<p>Tube Caps</p>	<p>Problem resolution case studies</p>

Crimping System

Overview

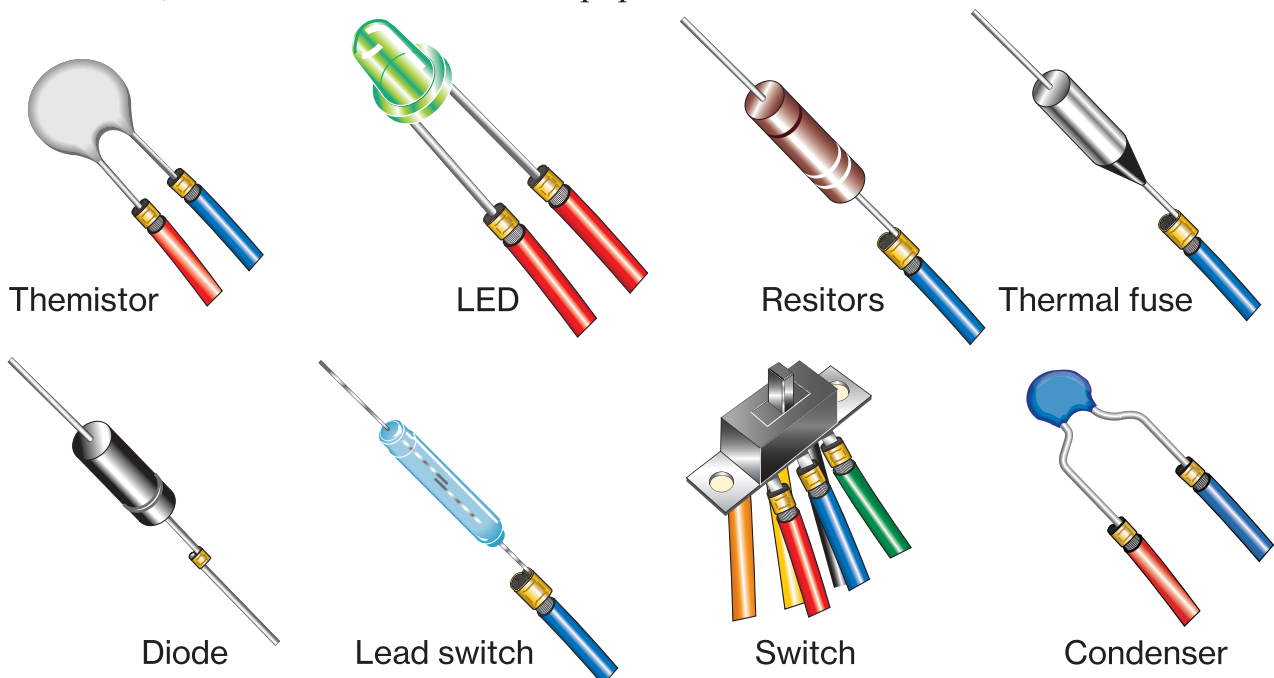
This is an effective crimping system for intermediate joints that connect wires to each other, wires to leads, and lead wires to each other.

ICREX's crimping system is a highly reliable connection system consisting of a ribbon terminal that serves as a crimping terminal, an applicator that changes the ribbon terminal to a crimping terminal, and a crimping machine ribbon crimper that moves the applicator.



Main uses

ICREX's crimping systems is used in a variety of fields, including home appliances, automobiles, and telecommunications equipment.

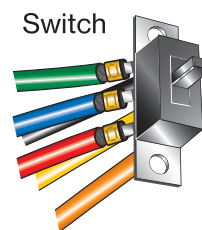


Crimping System

Features

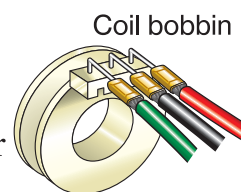
- Stability of quality

Compared with manual soldering, which has a large variation in quality due to the degree of skill, crimping systems do not require skill because they are mechanically connected. Extremely little variations in quality caused by operators, and stable connections can be obtained.



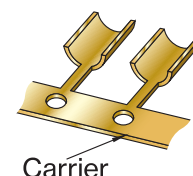
- Diversity of parts to be crimped

When crimping with a crimping system (ribbon crimper), the workpiece does not interfere with the carrier of the molding terminal or adjacent terminals, as in the case of crimping the molded terminal. Since only a workpiece to be crimped to a lower mold called a crimper is set, crimping of various workpieces is possible. Various workpieces can be connected such as a switch or a connection between the coil bobbin lead wire and the wire.



- Scrap press

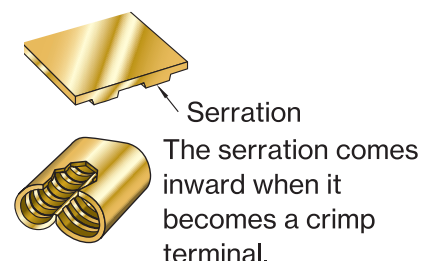
Crimping with ribbon terminals does not require carriers like molded terminals, so scrap does not occur.



Ribbon terminals

The ribbon terminal is a strip-shaped terminal wound around a reel that attaches to the crimper ribbon crimper.

Wave-shaped serrations are applied to increase the area of contact with the workpiece to be crimped. This serration improves electrical properties such as contact resistance and mechanical properties such as tensile strength.



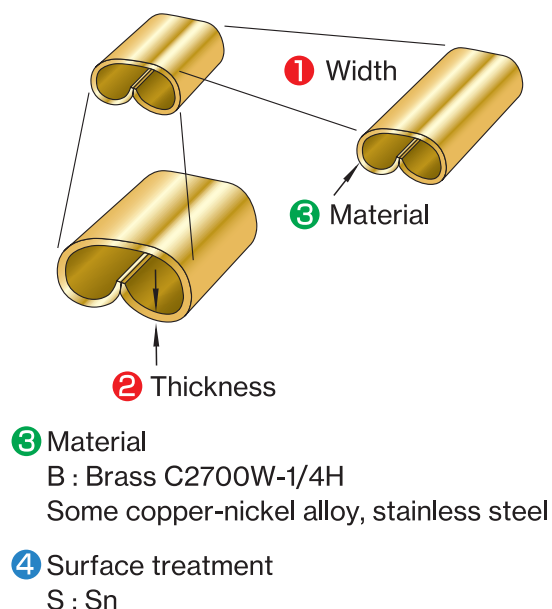
◆ Types of ribbon terminal

Ribbon terminal part number				
2	30	-	B	S
① Width	② Thickness		③ Material	④ Surface treatment
	0.2 --> 20			
	0.3 --> 30			

① Width ② Thickness

Size		Thickness		
		0.2mm	0.3mm	0.4mm
Width	2mm (Part No.)	△ (220)	○ (230)	○ (240)
	3mm (Part No.)			△ (340)
	4mm (Part No.)		○ (430)	△ (440)

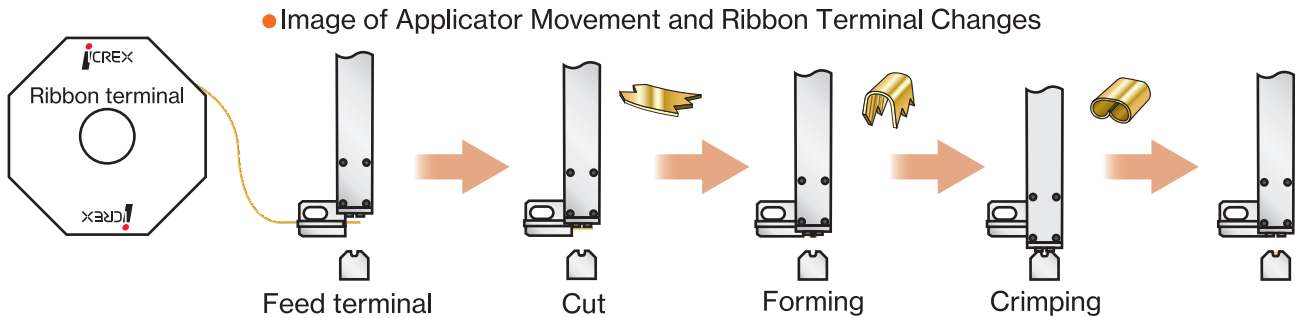
○ Standard △ Semi-standard



Crimping System

Applicators

The applicator is a tool that attaches the ribbon terminal to the crimper ribbon crimper that cuts, forms, and makes it into a crimp terminal. The size of the crimp terminal varies depending on the applicator. The size of the workpiece to be crimped determines the model number of the applicator.



◆ Applicators and crimping range

Part No.	Workpiece to be crimped	
	Cross section mm ²	Single wire (two) mm
100	0.02 ~ 0.08	0.10 (two) to 0.22 (two)
125	0.06 ~ 0.26	0.20 (two) to 0.41 (two)
150	0.20 ~ 0.40	0.36 (two) to 0.50 (two)
175	0.25 ~ 0.48	0.40 (two) to 0.55 (two)
225	0.46 ~ 1.00	0.54 (two) to 0.80 (two)
255	0.90 ~ 1.60	0.75 (two) to 1.00 (two)
295	1.40 ~ 2.30	0.95 (two) to 1.20× (two)
360	2.10 ~ 3.10	1.15 (two) to 1.40 (two)

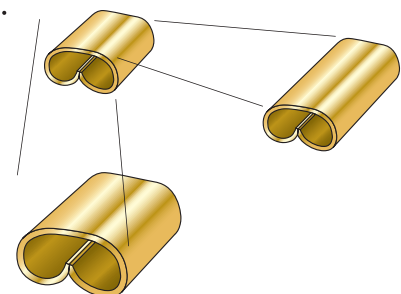
Figures vary depending on the thicknesses of the terminals used, so please use them as reference values.

After sample production and testing, we will determine the model number of the applicator.

◆ Crimp terminal shape

The applicator of the crimper ribbon crimper can be replaced. The size of the crimp terminal can be changed depending on the applicator used. By replacing the applicator, it is possible to correspond to crimp terminals of various sizes, and it is possible to increase the type of workpiece to be crimped.

In addition to the standard crimp terminal shape, the shape of the terminal can be made special by the applicator.



Diversity in breadth and size

● Offset type



This is used when the single wire diameter is different, mainly when the single wire is crimped to each other.

● Elliptical shape



Used to organize the shielded wires of coaxial cables, etc.

● Standard



Most crimping can be done with this standard shape.

Crimping System

Crimping system ribbon crimper

This machine connects the workpiece in approximately 0.2 seconds while moving the applicator and using the ribbon terminal as a crimp terminal.

◆Crimping system ribbon crimper specifications

- Part No. : RIM-201
- External dimensions : Width / 370mm
Depth / 370mm (420mm)
Height / 385mm (470mm)
*The dimensions given above do not include the work light.
*Figures in brackets () are dimensions with terminal reel attached.
- Weight : 37kg
- Switch : Foot switch
- Counter : Resettable Six digits
- Power supply : AC100V 50/60Hz



Ribbon crimper RIM-201

Crimping characteristics and crimp height

The correlations between crimp height and electrical properties (contact resistance) and mechanical properties (withdraw strength) are as illustrated below. A good mechanical property range will also have good electrical properties. Crimping operation is usually managed in terms of crimp height. If F_w is cable strength and F_r the required withdraw strength, the crimp height of the operation range will be between H_{c1} and H_{c2} .

