

# PRODUCT DIGEST

Solderless Terminals, Connectors and Crimping/Compression Tools & Equipment



Providing Innovative Electronic Fastening Solutions Since 1941

Our advanced technology, combined with superior customer service and cost-effective solutions, is what has made Nichifu a trusted manufacturer and distributor for more than 80 years.



# 01



# Non-Insulated Terminals & Sleeves

Ring

R

1.25

-

3

Shape of Tongue

Nominal Size

Stud Size (mm)

R:	RING	1.25	-> 1.25 mm <sup>2</sup>
RD:	RING DOUBLE STUD	2	-> 2 mm <sup>2</sup>
CB:	SQUARE RING	3.5	-> 3.5 mm <sup>2</sup>
FT:	FLAG RING		

Spade

1.25

Y

-

3

Nominal Size

Shape of Tongue

Stud Size (mm)

1.25	-> 1.25 mm <sup>2</sup>	Y:	SPADE
2	-> 2 mm <sup>2</sup>	LY:	LOCKING SPADE
3.5	-> 3.5 mm <sup>2</sup>		

## Non-Insulated Terminals & Sleeves

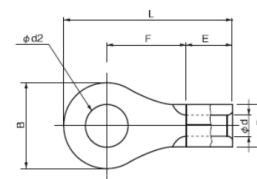
Our Non-Insulated Terminals and Sleeves are made out of 99.96% oxygen-free premium copper to provide excellent protection against impact and abrasion.

80  
Years  
of Innovation

### NON-INSULATED RING TERMINALS



R Type Ring Terminals



Our Non-Insulated Ring Terminals consist of wire sizes from AWG24 to 600MCM and numerous shapes and stud sizes. The brazing part of the tubular is characterized by dots so that the crimping position can be checked.



SCAN/CLICK ME



Square Ring Terminals



RD Type Ring Terminals



Flag Ring Terminals

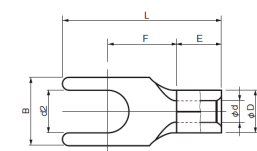


90 Degree Ring Terminals

### NON-INSULATED SPADE TERMINALS



Y Type Spade Terminals



Our Non-Insulated Spade Terminals are made out of oxygen-free premium copper, and offered in a wide variety of shapes for the same wire and stud size. We developed a proprietary method that reduces the bending that occurs during the transportation and operations by increasing the hardness of the terminal (contact point) without changing the hardness of the crimped area.



SCAN/CLICK ME



E Type Spade Terminals



Flange Spade Terminals

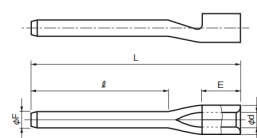


Locking Spade Terminals

### NON-INSULATED PIN TERMINALS



TC/ST Type Pin Terminals



Our Non-Insulated Pin Terminals are made out of oxygen-free premium copper with an unparalleled selection of lengths and thicknesses. We offer a wide variety of non-insulated pin terminals from the standard type where the bar continues from the bottom to the ones where they're located at the center.



SCAN/CLICK ME



TC Type Pin Terminals



TC/ST Type with Insulation Cap



TC Type with Insulation Cap





# Non-Insulated Terminals

Our Non-Insulated Terminals and Sleeves are made out of 99.96% oxygen-free premium copper to provide excellent protection against impact and abrasion.

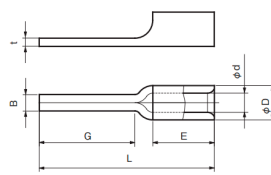
With over 80 years of experience, Nichifu is a leading manufacturer and distributor for a wide range of solderless terminals and various electrical products.

80  
Years  
of Innovation

## NON-INSULATED BLADE TERMINALS



Miniature Blade (BT Type)



Our Non-Insulated Blade Terminals are made out of oxygen-free premium copper with an unparalleled selection of lengths and thicknesses. Nichifu non-insulated blade terminals are available in lipped, miniature, and flat blade styles.



SCAN/CLICK ME



Blade Terminal (BT Type)



Lipped Blade Terminals (BT Type)

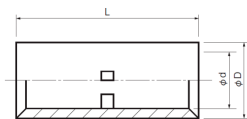


BTC Type

## NON-INSULATED BUTT & PARALLEL CONNECTORS



B Type Butt Connectors



Our Non-Insulated Butt & Parallel Connectors that are seamless and made out of oxygen-free premium copper, are the optimal solution for connecting multi-conductor cables. Nichifu offers a variety of lengths, along with an option for open end connectors.



SCAN/CLICK ME



B Type, Extra Long Butt



P Type Parallel Connectors



E Type Open End Connectors

Others

R

1.25

-

3

Shape of Tongue

Nominal Size

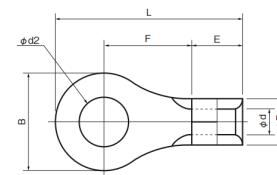
Stud Size (mm)

TC:	PIN	1.25	-> 1.25 mm <sup>2</sup>
BT:	BLADE	2	-> 2 mm <sup>2</sup>
B:	BUTT	3.5	-> 3.5 mm <sup>2</sup>
P:	PARALLEL		etc.

## NON-INSULATED HIGH TEMPERATURE TERMINALS



Female Disconnect (Nickel plated)



Nichifu Non-Insulated High Temperature Terminals are made from solid nickel and can withstand temperatures up to 400°C (752°F). Available in a variety of types, including butt splices, sleeves, and disconnects.



SCAN/CLICK ME



Butt Connectors (Nickel plated)



Parallel Connectors (Nickel plated)

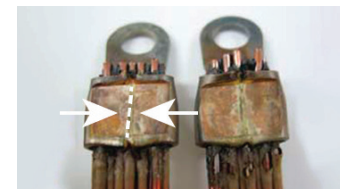


Butt Connectors (Nickel material)



Ring Terminals (Nickel material)

## NO SPLIT IN BRAZED SEAM ON BARREL AFTER RESISTANCE WELDING



After Test Performed by Customer

Nichifu's terminals are designed to be able to withstand resistance welding (wire fusing). Wire fusing is a process used in electronics manufacturing to remove enamel insulation and create a structurally robust connection with minimal electrical resistance. The wire fusing process is a prevalent technique employed in various sectors such as aerospace, automotive, and construction, among others. The image on the left shows that the brazed seam on the barrel has not been split apart.

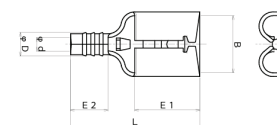


SCAN/CLICK ME

## NON-INSULATED DISCONNECT TERMINALS



Female Disconnect Terminals



Non-Insulated Disconnect Terminals are great for applications that demand frequent reassembly. These terminals are an incredibly versatile option, as they can be easily connected and disconnected. Nichifu offers a variety of non-insulated disconnects for mating with male and female parts, piggyback terminals, 3-way adapters, and flag terminals.



SCAN/CLICK ME



w/ Copper Sleeve on Barrel



Male Disconnect Terminals



w/ Copper Sleeve on Barrel



PiggyBack Disconnect Terminals



w/ Copper Sleeve on Barrel



Flag Disconnect Terminals



3-Way Adapters

02



# Insulated Terminals & Sleeves

TME

X

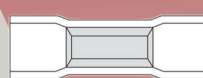
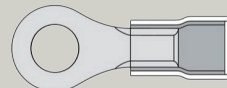
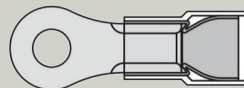
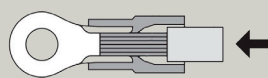
1.25

-

4

Insulator Shape		Insulator Material		Nominal Size		Stud Size (mm)
TME	See below	X	Polycarbonate	0.3	-> 0.3 mm <sup>2</sup>	
TMDE		V	Vinyl	1.25	-> 1.25 mm <sup>2</sup>	
TMD		N	Nylon	2	-> 2 mm <sup>2</sup>	
TM				3.5	-> 3.5 mm <sup>2</sup>	
				5.5	-> 5.5 mm <sup>2</sup>	

TME Type	TMDEN Type	TMD Type	TM Type
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For the complete information on our part number structure including insulated disconnect terminals, please visit the "Resources" page on our website or scan the QR code on the right.



## Insulated Terminals & Sleeves

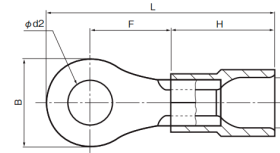
We offer an extensive selection of vinyl, nylon, heat-shrink, and eco-friendly polycarbonate terminals to work with marine, automotive, industrial, and a variety of other industry applications.



### INSULATED RING TERMINALS



Polycarbonate Ring Terminals



Our Insulated Ring Terminals are made out of oxygen-free premium copper, and are offered in a wide variety of shapes for the same wire and stud size. These terminals are covered with insulators made of environmentally friendly polycarbonate or nylon to prevent corrosion, keep connections secure, and prevent overall damage.



SCAN/CLICK ME



Nylon Insulated Ring Terminals

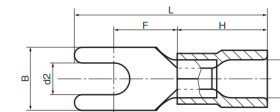


Large Ring Terminals

### INSULATED SPADE TERMINALS



Polycarbonate Spade



Our Insulated Spade Terminals (also known as fork terminals) are made out of oxygen-free premium copper, and are commonly applied in electrical systems to prevent wires from fraying. These terminals are covered with a nylon or environmentally-friendly polycarbonate, ROH10 compliance material that does not generate toxic halogen gas or corrosive gas when burned.



SCAN/CLICK ME



Polycarbonate Locking Spade



Polycarbonate Flange Spade



Nylon Spade

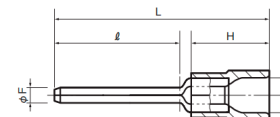


Nylon Locking Spade

### INSULATED PIN TERMINALS



Polycarbonate Insulated Pin



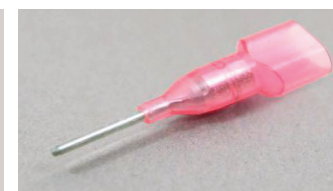
Our Insulated Pin terminals are made out of oxygen-free premium copper, and commonly used to connect wires to terminal blocks. These terminals are covered with a nylon or environmentally-friendly polycarbonate, ROH10 compliance material that does not generate toxic halogen gas or corrosive gas when burned.



SCAN/CLICK ME



Straight Insulated Pin (Single)



Straight Insulated Pin (Twin)



Nylon Pin w/ Extra Copper Sleeve





# Insulated Terminals

We offer an extensive selection of vinyl, nylon, heat-shrink, and eco-friendly polycarbonate terminals to work with marine, automotive, industrial, and a variety of other industry applications.

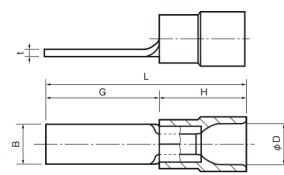
With over 80 years of experience, Nichifu is a leading manufacturer and distributor for a wide range of solderless terminals and various electrical products.

80  
Years  
of Innovation

## INSULATED BLADE TERMINALS



Polycarbonate Insulated Blades



Made with oxygen-free premium copper, our Insulated Blade Terminals are durable, long-lasting, and easy to attach to or remove from hardware. These terminals are covered with a nylon or environmentally-friendly polycarbonate, ROH10 compliance material that does not generate toxic halogen gas or corrosive gas when burned.



SCAN/CLICK ME



Polycarbonate Lipped Blades



Nylon Insulated Blades

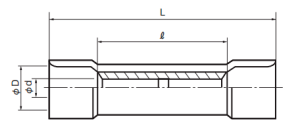


Nylon Insulated Lipped Blades

## INSULATED BUTT & PARALLEL CONNECTORS



Straight Butt Connectors



Made with oxygen-free premium copper, our Insulated Butt & Parallel Connectors are used to connect, mate, or terminate a single wire or set of wires. These terminals are covered with a nylon or environmentally-friendly polycarbonate, ROH10 compliance material that does not generate toxic halogen gas or corrosive gas when burned.

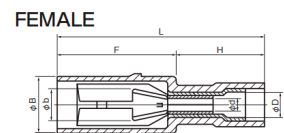


SCAN/CLICK ME

## INSULATED BULLET & RECEPTACLE CONNECTORS



Bullet & Receptacle Connectors



Often used for wiring in automotive applications, insulated bullet connectors, or receptacle connectors, feature a simple form factor to provide safe and reliable connections.

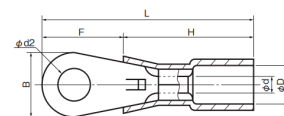


SCAN/CLICK ME

## HEAT-SHRINK RING TERMINALS & BUTT CONNECTORS



Heat-Shrink Ring Terminals



Nichifu Heat-Shrink Ring Terminals and Butt Connectors are ideal for applications that require high performance and longevity. Heat-shrink terminals are lined with glue to seal wires when heated, and are the most durable type of insulation for terminals and connectors.

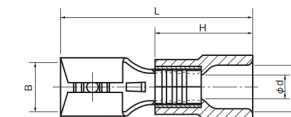


SCAN/CLICK ME

## HALF-INSULATED DISCONNECT TERMINALS



Half-Insulated Disconnects



Disconnect terminals are ideal for applications that require frequent reassembly. These terminals are an incredibly versatile option, as they can be easily connected and disconnected. We offer a variety of half-insulated options for connecting male and/or female parts.

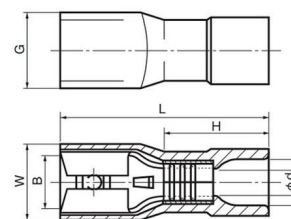


SCAN/CLICK ME

## FULLY INSULATED DISCONNECT TERMINALS



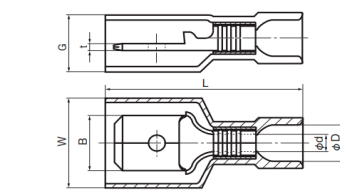
Fully Insulated Disconnect - F



For applications that require frequent reassembly, disconnect terminals are the ideal choice. These terminals are an incredibly versatile option, as they can be easily connected and disconnected. We offer a variety of fully insulated options for connecting male and/or female parts.



SCAN/CLICK ME



Fully Insulated Disconnect - M



w/ Copper Sleeve on Barrel - F



w/ Copper Sleeve on Barrel - M

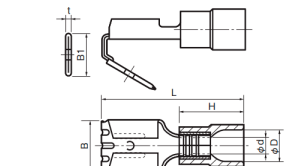


w/ Extra Copper Sleeve - F

## INSULATED PIGGYBACK DISCONNECT TERMINALS



Piggyback Disconnect



Piggyback disconnect terminals are used when multiple connections are required. The piggyback terminal is designed to allow another disconnect terminal to be connected to its tab.

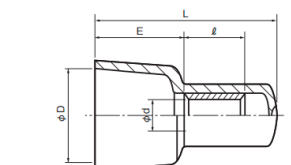


SCAN/CLICK ME

## CLOSED END CONNECTORS



CE Type



Our Closed-End Connectors are made out of oxygen-free premium copper. They are designed for quick and easy crimping to create a permanent connection and are frequently used for the internal wiring of home appliances and other applications. Available in V-0 flame-retardant.



SCAN/CLICK ME



# 03



## High-Voltage Applications

Both compression terminals and clamp connectors are used to form connections in power management applications. Different from standard connectors that are attached to conductors with crimping tools, these connectors are clamped or compressed onto conductors using hydraulic tools and dies. We offer clamp connectors, compression terminals, shunt wires, and copper-tube terminals in a range of styles and sizes.

## High Voltage Applications

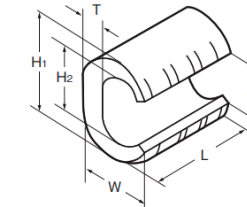
We offer clamp connectors, compression terminals, shunt wires, and copper-tube terminals in a range of styles and sizes.



### CLAMP CONNECTORS



Clamp Connectors & Covers

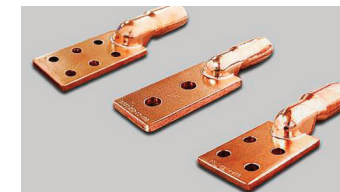


Nichifu Clamp Connectors are compliant with branch wire sizes up to 700 mm<sup>2</sup> and are available for use with clamp connector covers. Our clamp connectors include chamfered edges for protecting the wire as well as stamped lines to show the proper position for crimp dies.

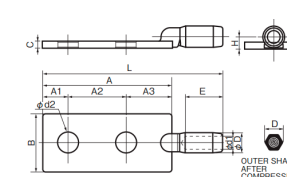


SCAN/CLICK ME

### COMPRESSION TERMINALS



Compression Terminals



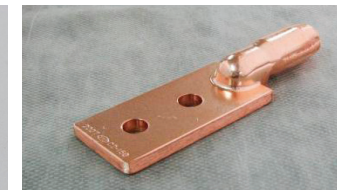
Compression terminals are commonly used to connect the terminals or electrical equipment and wires that require extra secure connections under harsh conditions such as wind, rain, or ice. These terminals are highly conductive and are compliant with copper stranded wire sizes up to 1600 mm<sup>2</sup>. The product is compliant with JIS-C2804-1961.



SCAN/CLICK ME



C1 Type



C2 Type

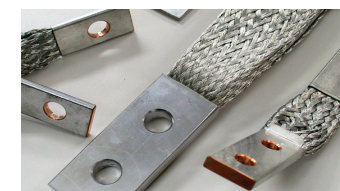


C4-C Type

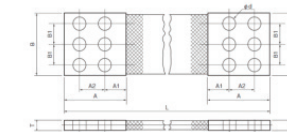


C6-C Type

### FLEXIBLE COPPER BRAIDED CONNECTORS



Flexible Braided Connectors



Our Flexible Copper Braided Connectors, which are typically custom-made, are used to connect large-capacity power transformers to busbars, and busbars to busbars. They help to provide a low-resistance path for electrical circuits and prevent attachment parts from loosening due to vibrations and absorb and alleviate vibrations caused by earthquakes or high temperature applications.

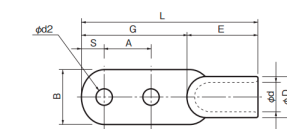


SCAN/CLICK ME

### TUBULAR TERMINALS



Tubular Terminals



Available in single hole and double hole configurations, tubular terminals (also known as sleeves) are manufactured using highly conductive copper to be resistant to corrosion. Our tubular terminals are ideally suited for connecting electrical copper wire to equipment terminals or to another conductor.



SCAN/CLICK ME



# 04



## Connectors

Electrical connectors are a necessary component in any electrical system. These parts are comprised of a male end and/or a female end to connect various cables and form a functioning circuit.

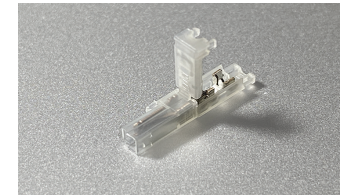
We offer a wide selection of electrical connectors, including easy lock connectors, insulation displacement connectors, push-in wire connectors, plug joint connectors, and ferrules.

## Connectors

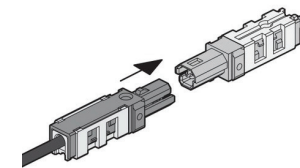
Electrical connectors are comprised of a male end and/or a female end to connect various cables and form a functioning circuit.



### INSULATION DISPLACEMENT CONNECTORS (IDC)



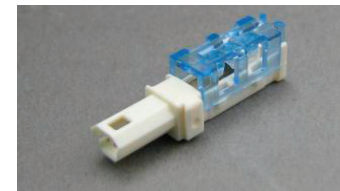
NDC 3026



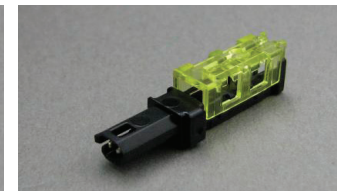
IDC or insulation displacement connectors, are used to form a connection between stranded wires and solid wires. Made from eco-friendly polycarbonate material and can be easily installed using simple pliers. Eliminate the process of stripping and crimping contacts onto a wire with the NDC series, wire to wire Insulation Displacement Connector (IDC).



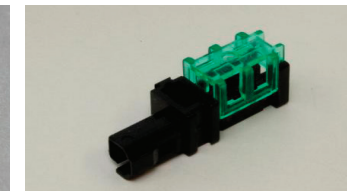
SCAN/CLICK ME



NDC 2824



NDC 2420



NDC 2018A

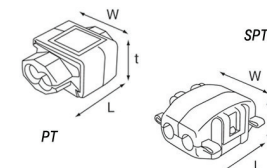


NDB 2018

### PUSH-IN WIRE CONNECTORS



QLXL-3



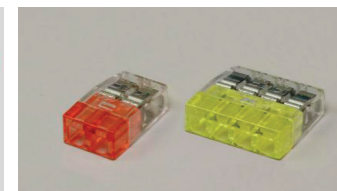
Nichifu offers a variety of quick-lock push-in connectors as well as plier tap connectors that incorporate a stable 2-point contact spring that allows for an easy insertion that doesn't disconnect easily. Our Push-In Wires offer a corrugated conductive plate to expand the contact area with the wire which helps to improve the conductivity level.



SCAN/CLICK ME



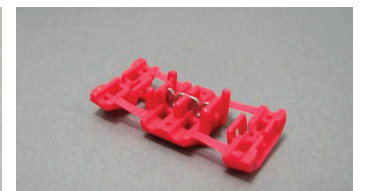
QLX Series



QLX SQ & QLX MC Series

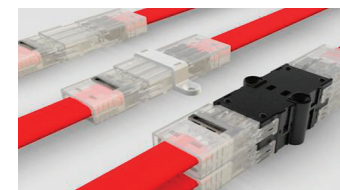


Plier Tap (PT)

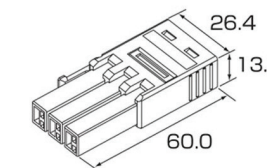


Plier Tap (SPTV)

### PLUG JOINT CONNECTORS



Plug Joint Connectors



Plug joint connectors can be easily connected, reused, or rewired without the need for an electrician. They are efficient for prefabricated building wiring applications, as the wires are usually installed when the wall, floor, or roof is manufactured in the factory.



SCAN/CLICK ME



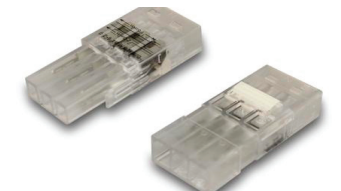
NPJ P01-3P



NPJ B01-3P



NPJ B02-3P



Mini Plug Joint Connectors



05



# Insulated & Non-Ins. Chain Terminals

ICT

BX

1.25

-

4

Insulator Shape		Insulator Material		Nominal Size		Stud Size (mm)
ICT	Terminals &	BX	Polycarbonate	0.3	-> 0.3 mm <sup>2</sup>	
ICTD	Disconnects	V	Vinyl	1.25	-> 1.25 mm <sup>2</sup>	
ICCE	Closed End	N	Nylon	2	-> 2 mm <sup>2</sup>	
ICB	Butt Connectors			5.5	-> 5.5 mm <sup>2</sup>	
CT	Non-Insulated					

## Standard Color

	ICT 0.3/0.5	ICT 1.25	ICT 2	ICT 5.5
Vinyl	Yellow	Red	Blue	Yellow
Nylon	Translucent Yellow	Translucent Red	Translucent Blue	Translucent Yellow

## Insulated & Non-Ins. Chain Terminals

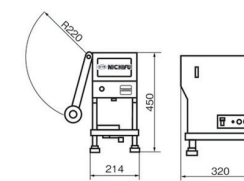
Nichifu has been offering high quality ICT (Insulated Chain Terminal) since 1983. We offer an extensive selection of chain terminals including rings, spades, butts, disconnects, pins, blades, and more for a variety of applications.



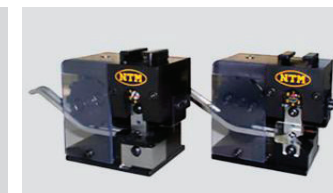
### ICT CRIMPING MACHINES



ICT Pneumatic Crimping Machine



ICT Electric Crimping Machine



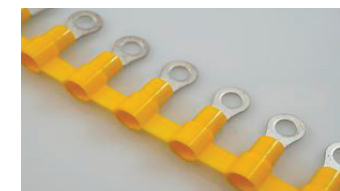
Applicators for Crimping Machines

Nichifu is the first in the industry to introduce chain terminals in various shapes. Its unparalleled quality can be achieved only by using Nichifu's original crimping machine NCA/ NCM and its applicator. It offers stable crimping operations for workers of all skill levels with a capacity of crimping up to 1,200 pieces per hour.

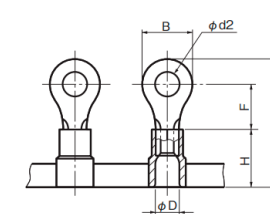


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### INSULATED & NON-INSULATED CHAIN TERMINALS (ICT & CT)



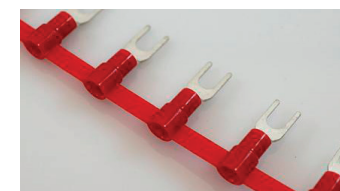
ICT - Rings



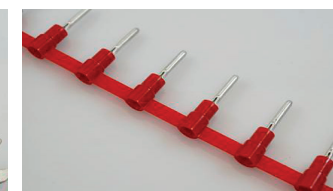
We offer an extensive selection of insulated and non-insulated chain terminals including rings, spades, butts, disconnects, pins, blades, and more for a variety of applications. Nichifu has developed a unique feature for non-insulated chain terminals where the crimping is performed from the top of the connecting band, and the crimping process is completed when the connecting band breaks.



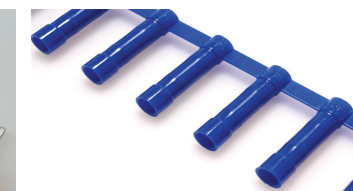
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ICT - Spades



ICT - Pins & Blades



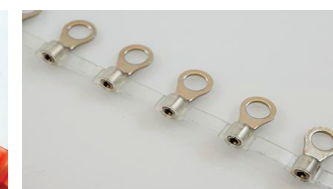
ICT - Butts



ICT - Closed Ends



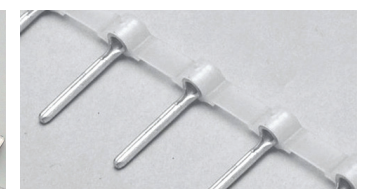
ICT - Disconnects



CT - Rings



CT - Spades



CT - Pins & Blades



# 06



## Crimping Machines & Tools

Nichifu offers a variety of crimping machines and tools. Designed to help complete wiring jobs and projects more efficiently.



## Crimping Machines and Tools

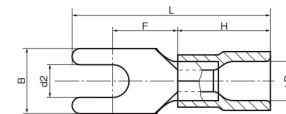
Nichifu offers a variety of crimping machines and tools. Designed to help complete wiring jobs and projects more efficiently.



### PNEUMATIC CRIMPING TOOLS



NA 10



Our Pneumatic Crimping Machines are designed to help complete crimping jobs more consistently and effortlessly in a shorter timeframe. Applicable air pressure is 0.5MPa or more. Use our recommended tools/dies for the UL/CSA listed terminals/connectors to be in compliance with the UL listing or the CSA certification.



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NA 3



NA 20B



Applicators



Dies

### HYDRAULIC CRIMPING & COMPRESSION TOOLS



Hydraulic Heads



Hydraulic Heads

Nichifu offers a variety of Hydraulic Crimping & Compression Tools for a wide range of outputs (54KN to 490KN) and applications. Hydraulic crimping and compression tools are essential for secure and reliable connections.



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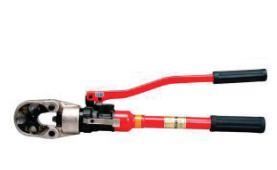
Motor Driven Hydraulic Pumps



Hydraulic Pumps



Powered Hydraulic Crimping Tools



Hydraulic Hand Crimping Tools

### HAND CRIMPING TOOLS



NH 1



NH 13

Nichifu offers a wide range of easy-to-use, reliable Hand Crimping Tools suitable for a variety of insulated and non-insulated terminals, sleeves and connectors (e.g., ring, spade, pin, disconnect, butt & parallel, bullet & receptacle, closed end, and disconnect).



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NH 32



NH 38



NH 69



NH 89





# Cable Accessories

Nichifu offers a variety of cable glands and cable ties, insulation caps, wire twisters, torque screwdrivers, and more. Find the cable accessories and tools you need to finish the job faster and more efficiently.

Ferrules are rings that are used to reinforce a wire or bind two or more wires together. These components can also protect wires and cables from damage caused by excessive strain. Nichifu offers single wire and twin wire ferrules.

## Cable Accessories

Nichifu offers a variety of cable glands and cable ties, insulation caps, wire twisters, torque screwdrivers, and more. Designed to help complete wiring jobs and projects more efficiently.



### WIRE TWISTERS



Twister with Stand & Foot Switch



Pneumatic Wire Twister

Our wire twisters are available in pneumatic and electric, both with stand and foot switch options. They're often used in the pre-crimping process of closed end connectors used for terminal connections - mainly utilized in the production lines of household appliances and lighting fixtures. Also available in fine wires up to AWG36.



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### CABLE GLANDS & CABLE TIES



Cable Glands



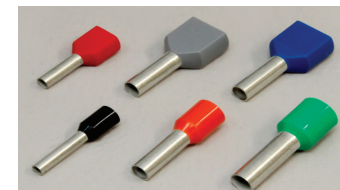
Cable Ties

Cable Glands attach and secure the end of an electrical cable to the equipment to provide support and less strain. Our standard nylon cable ties are available in natural or UV black color and in different sizes and lengths to suit your requirements.

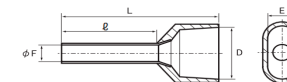


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### FERRULES



Ferrules



Ferrules are rings that are used to reinforce a wire or bind two or more wires together. These components can also protect wires and cables from damage caused by excessive strain. Nichifu offers single wire and twin wire ferrules.



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Single Wire Ferrules



Twin Wire Ferrules



Chain Ferrules

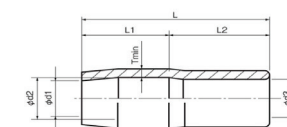


Chain Ferrules

### INSULATION CAPS



Insulation Caps



Browse our selection of insulation caps and covers including insulation caps for female disconnects, insulation caps for bullets, insulation cap for receptacles, pin terminal caps, insulation caps, joint covers, end caps, and tire wraps.



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## Our Commitment to Safety & Sustainability

We understand the importance of safety when working with electrical systems, which is why we manufacture our extensive inventory according to stringent international standards. Nichifu is an ISO9001 certified manufacturer. All of our products are listed by the UL/CSA and developed and tested according to Japanese Industrial Standards, both of which you can find stamped on our products as proof of approval.

Not only do we guarantee quality and safety, but we also share a commitment to sustainable production. From our reusable wiring components to our new line of eco-friendly polycarbonate terminals, we provide a range of products designed to deliver superior quality, while also catering to the evolving needs of our environment. As a global manufacturer, Nichifu continuously strives to adopt renewable technologies to improve the quality of our products and the greater world.

NICHIFU AMERICA, INC

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