JST France

THE QUALITY CONNECTION

JST France

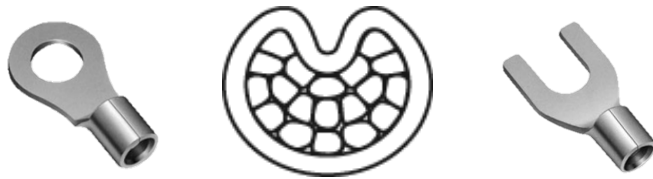# JST FRANCE HAND TOOLS

PRESENTATION

JST *France*

PCK

PCK-02A

For non insulated terminals

TECHNICAL DATAS:

Length: 204 mm / 0.3"

Width: 22 mm / 0.87"

Height: 76 mm / 2.99"
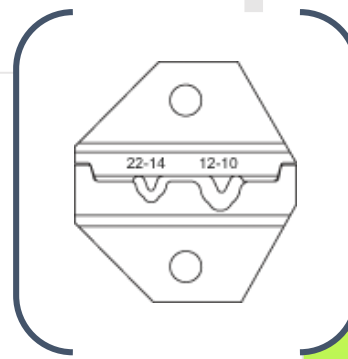
Weight: 50 gr / 1.1 lb

Wire size: 0.33 to 2.08 mm² / AWG# 22 to 14

Crimp dimensions mm / mm²: 0.35-2.5 mm² / 4-6 mm²

Crimp dimensions inch / AWG: AWG# 22-14 / AWG# 12-10

Connector: for uninsulated copper tube & copper sheet connectors
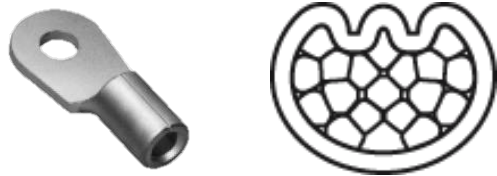
Life cycles: 50 000

- Crimping tool for non insulated connectors, 0.35-6.0 mm²/AWG 22-10, Indent-Crimp.

- High strength, through hardened alloy steel construction

- Unique mechanism significantly reduces hand force requirement over competing crimping tools

- Versatile and easy to customize for right hand or left hand users.

- Non-slip pad holds tool in place when leveraging on a work surface

- Full cycle crimp mechanism to ensure consistent, reliable crimp

- Ratchet release mechanism to clear mis-crimps and obstructions

- Precision eccentric adjustment for consistent performance and ability to calibrate

- Hole in handle allows attachment of safety strap

- Each tool has a unique serial number for traceability

JST *France*

PCK-02I
For DIN Terminals & Splices

TECHNICAL DATAS:

Length: 256 mm / 10.08"

Width: 22 mm / 0.87"
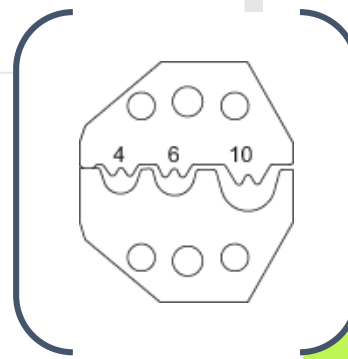
Height: 80 mm / 3.15"

Weight: 550 gr / 1.21 lb

Wire size: 4 to 10mm² / AWG# 12 to 8

Crimp dimensions mm / mm²: 4 / 6 / 10 mm²

Crimp dimensions inch / AWG: AWG# 12 / 10 / 8

Connector: for non insulated DIN46234 non insulated terminals & splices

Description: Life cycles: 50 000

- Crimping tool for non insulated connectors, 4-10 mm²/AWG 12-8, W-Crimp.

- High strength, through hardened alloy steel construction

- Unique mechanism significantly reduces hand force requirement over competing crimping tools

- Versatile and easy to customize for right hand or left hand users.

- Non-slip pad holds tool in place when leveraging on a work surface

- Full cycle crimp mechanism to ensure consistent, reliable crimp

- Ratchet release mechanism to clear mis-crimps and obstructions

- Precision eccentric adjustment for consistent performance and ability to calibrate

- Hole in handle allows attachment of safety strap Each tool has a unique serial number for traceability

JST *France*

PCK-05E

For insulated terminals:
red, blue & yellow
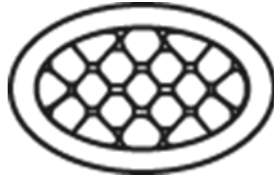
TECHNICAL DATAS:

Length: 256 mm / 10.08"

Width: 22 mm / 0.87"

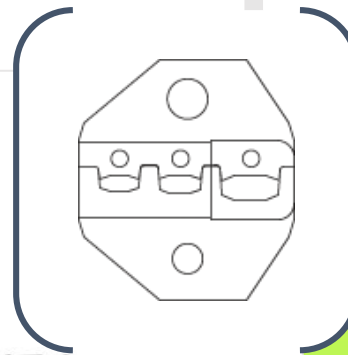Height: 80 mm / 3.15"

Weight: 559 gr / 1.23 lb

Wire size: 0.75-6 mm² / AWG# 22-10

Crimp dimensions mm / mm²: 0.75-1.5 / 1.5-2.5 / 4-6 mm²

Crimp dimensions inch / AWG: #22-16 / #16-14 / #12-10

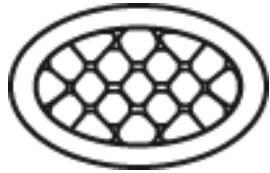Connector: for pre insulated red, blue & yellow

Life cycles: 50 000

- Crimping tool for insulated connectors, 0.75 - 6.0 mm²/AWG 22-10 (red, blue, yellow), Oval-Crimp symmetric. Short and long handle available.

- High strength, through hardened alloy steel construction

- Unique mechanism significantly reduces hand force requirement over competing crimping tools

- Versatile and easy to customize for right hand or left hand users.

- Non-slip pad holds tool in place when leveraging on a work surface

- Full cycle crimp mechanism to ensure consistent, reliable crimp

- Ratchet release mechanism to clear mis-crimps and obstructions

- Precision eccentric adjustment for consistent performance and ability to calibrate

- Hole in handle allows attachment of safety strap

- Each tool has a unique serial number for traceability

- Vinyl Insulation exists in Nylon & in reinforced Insulation conformed to Reach Compliance

PCK-05G
For insulated terminals

TECHNICAL DATAS:

Length: 204 mm / 8.03"

Width: 22 mm / 0.87"

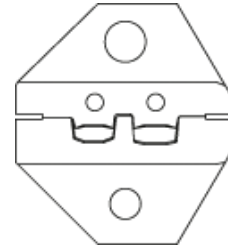Height: 76 mm / 2.99"

Weight: 500 gr / 1.1 lb

Wire size: 0.14 – 1.0 mm² / AWG# 26-16

Crimp dimensions mm / mm²: 0.14 – 1.0 mm²

Crimp dimensions inch / AWG: # 26-16

Connector: for pre insulated red,& blue connectors

Life cycles: 50 000

- Crimping tool for insulated connectors, 0.14 – 1.0 mm²/AWG 26-16 (red, blue), Oval-Crimp

- High strength, through hardened alloy steel construction

- Unique mechanism significantly reduces hand force requirement over competing crimping tools

- Versatile and easy to customize for right hand or left hand users.

- Non-slip pad holds tool in place when leveraging on a work surface

- Full cycle crimp mechanism to ensure consistent, reliable crimp

- Ratchet release mechanism to clear miscrimps and obstructions

- Precision eccentric adjustment for consistent performance and ability to calibrate

- Hole in handle allows attachment of safety strap Each tool has a unique serial number for traceability

PCK-06H

For Tab on flag terminals
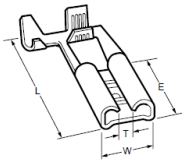
TECHNICAL DATAS:

Length: 204 mm / 8.03"

Width: 22 mm / 0.87"

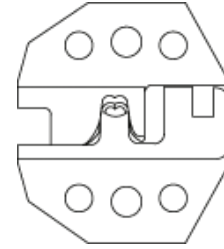Height: 76 mm / 2.99"

Weight: 560 gr / 1.23 lb

Wire size: 1-2.5 mm² / AWG# 18-14

Crimp dimensions mm / mm²: 1.0-2.5 mm²

Crimp dimensions inch / AWG: #18-14

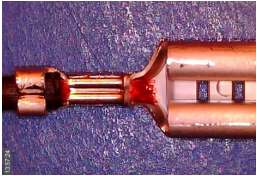Connector: for SF0-2.5-250N & SF0-2.5T-250N terminals

Life cycles: 50 000

- Crimping tool for : **SF0-2.5-250N** / **SF0-2.5T-250N**

- High strength, through hardened alloy steel construction

- Unique mechanism significantly reduces hand force requirement over competing crimping tools

- Versatile and easy to customize for right hand or left hand users.

- Non-slip pad holds tool in place when leveraging on a work surface

- Full cycle crimp mechanism to ensure consistent, reliable crimp

- Ratchet release mechanism to clear mis-crimps and obstructions

- Precision eccentric adjustment for consistent performance and ability to calibrate

- Hole in handle allows attachment of safety strap Each tool has a unique serial number for traceability

JST *France*

PCK-07E

For Chain Terminals / Splices

TECHNICAL DATAS:

Length: 256 mm / 10.08"

Width: 22 mm / 0.87"
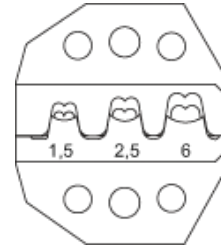
Height: 80 mm / 3.15"

Weight: 560 gr / 1.23 lb

Wire size: 0.5 to 6 mm² / AWG# 22 to 10

Crimp dimensions mm / mm²: 0.5-1.5 / 1.5-2.5 / 4-6 mm²

Crimp dimensions inch / AWG: # 22-16 / 16-14 / 12-10

Connector: for ring tongue & tab on terminals

Life cycles: 50 000

- Crimping tool for : **SRB-2.5-( ) / SRT-2.5-( ) / STO-1.0-110N / STO-1.0-187N / STO-1.0-250N / STO-2.5-250N**

- High strength, through hardened alloy steel construction

- Unique mechanism significantly reduces hand force requirement over competing crimping tools

- Versatile and easy to customize for right hand or left hand users.

- Non-slip pad holds tool in place when leveraging on a work surface

- Full cycle crimp mechanism to ensure consistent, reliable crimp

- Ratchet release mechanism to clear mis-crimps and obstructions

- Precision eccentric adjustment for consistent performance and ability to calibrate

- Hole in handle allows attachment of safety strap Each tool has a unique serial number for traceability

JST *France*

PCR

PCR-01B
For SPH-002-P0.5S terminal

TECHNICAL DATAS:

<u>Length:</u> 190 mm / 7.48"

<u>Width:</u> 21 mm / 0.83"

<u>Height:</u> 74 mm / 2.91"

<u>Weight:</u> 317 gr / 0.7 lb (hand tool + die+ locator)

<u>Wire size:</u> 0.08 to 0.22 mm² / AWG# 28 to 24

<u>Crimp dimensions mm / mm²:</u> 0.08-0.22 mm²

<u>Crimp dimensions inch / AWG:</u> AWG# 28-24

<u>Connector:</u> for **SPH-002-P0.5S** : contact from JST **PH** serie
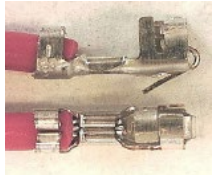
<u>Life cycles:</u> 50 000

- Equipped with a locator which optimizes contact installation & wire insertion. It simply achieves the crimp cycle.

- PCR frame length provides optimum low handle force for miniature connectors

- Unique "snap on" locator design for full visibility of connector and wire insertion

- Parallel action for precision and consistent crimp results

- Full cycle crimp mechanism to ensure consistent, reliable crimp

- Ratchet release mechanism to clear mis-crimps and obstructions

- Precision eccentric adjustment for consistent performance and ability to calibrate

- Tool-less die closure adjustment for maintenance and calibration

- Small size makes it easy to use in confined work areas

- Hole in handle allows attachment of safety strap Each tool has a unique serial number for traceability

JST France

PCR-02A
For SXH-001T-P0.6
terminal

TECHNICAL DATAS:

Length: 190 mm / 7.48"

Width: 21 mm / 0.83"

Height: 74 mm / 2.91"

Weight: 317 gr / 0.7 lb (hand tool + die+ locator)

Wire size: 0.13 to 0.33 mm² / AWG# 26 to 22

Crimp dimensions mm / mm²: 0.13 to 0.33 mm²

Crimp dimensions inch / AWG: # 26 to 22

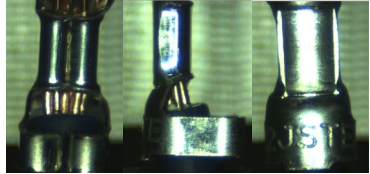Connector: for **SXH-001T-P0.6** : contact from JST **XH** serie

Life cycles: 50 000

- Equipped with a locator which optimizes contact installation & wire insertion. It simply achieves the crimp cycle.

- PCR frame length provides optimum low handle force for miniature connectors

- Unique "snap on" locator design for full visibility of connector and wire insertion

- Parallel action for precision and consistent crimp results

- Full cycle crimp mechanism to ensure consistent, reliable crimp

- Ratchet release mechanism to clear mis-crimps and obstructions

- Precision eccentric adjustment for consistent performance and ability to calibrate

- Tool-less die closure adjustment for maintenance and calibration

- Small size makes it easy to use in confined work areas

- Hole in handle allows attachment of safety strap Each tool has a unique serial number for traceability

PCR-03D
For SVH-21T-P1.1 terminal

TECHNICAL DATAS:

Length: 190 mm / 7.48"

Width: 21 mm / 0.83"

Height: 74 mm / 2.91"

Weight: 317 gr / 0.7 lb (hand tool + die+ locator)

Wire size: 0.33 to 0.83 mm² / AWG# 22 to 18

Crimp dimensions mm / mm²: 0.33 to 0.83 mm²

Crimp dimensions inch / AWG: # 22 to 18

Connector: for **SVH-21T-P1.1** : contact from JST **VH** serie

Life cycles: 50 000

- Equipped with a locator which optimizes contact installation & wire insertion. It simply achieves the crimp cycle.

- PCR frame length provides optimum low handle force for miniature connectors

- Unique "snap on" locator design for full visibility of connector and wire insertion

- Parallel action for precision and consistent crimp results

- Full cycle crimp mechanism to ensure consistent, reliable crimp

- Ratchet release mechanism to clear mis-crimps and obstructions

- Precision eccentric adjustment for consistent performance and ability to calibrate

- Tool-less die closure adjustment for maintenance and calibration

- Small size makes it easy to use in confined work areas

- Hole in handle allows attachment of safety strap Each tool has a unique serial number for traceability

PCR-04AB
For PHD, PA & PAL series

TECHNICAL DATAS:

Length: 190 mm / 7.48"

Width: 21 mm / 0.83"

Height: 74 mm / 2.91"

Weight: 317 gr / 0.7 lb (hand tool + die+ locator)

Wire size: 0.08 to 0.33 mm² / AWG# 28 to 22

Crimp dimensions mm / mm²: 0.08 to 0.33 mm²

Crimp dimensions inch / AWG: # 28 to 22

Connector: for **SPHD-001T-P0.5** / **SPHD-002T-P0.5** / **SPA-001T-P0.5** / **SPAL-001T-P0.5** / **SPAL-002T-P0.5** : terminals from JST **PHD, PA & PAL** series

Life cycles: 50 000

- Equipped with two locators which optimize contact installation & wire insertion. It simply achieves the crimp cycle.

- Same characteristics as the other PCR

- **One hand tool for 5 different terminals**

- **PHD**:

SPHD-001T-P0.5 / Wire section: 0.13 -0.33mm² / AWG# 26-22

SPHD-002T-P0.5 / Wire section: 0.08 - 0.21mm² / AWG# 28-24

- **PA**:

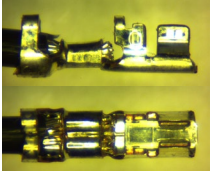SPA-001T-P0.5 / Wire section: 0.13 -0.33mm² / AWG# 26-22

- **PAL**:

SPAL-001T-P0.5 / Wire section: 0.13-0.33 mm² / AWG# 26-22

SPAL-002T-P0.5 / Wire section: 0.08-0.21 mm² / AWG# 28-24

JST France

PCR-LBTA
For SLBTAD-01T-M0.5 terminal

TECHNICAL DATAS:

Length: 190 mm / 7.48"

Width: 21 mm / 0.83"

Height: 74 mm / 2.91"

Weight: 317 gr / 0.7 lb (hand tool + die+ locator)

Wire size: 0.22 to 0.5 mm² / AWG# 24 to 20

Crimp dimensions mm / mm²: 0.22 to 0.5 mm²

Crimp dimensions inch / AWG: # 24 to 20

Connector: for **SLBTAD-01T-M0.5** : contact from JST **LBT A type** serie
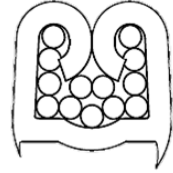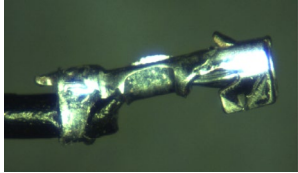
Life cycles: 50 000

- Equipped with a locator which optimizes contact installation & wire insertion. It simply achieves the crimp cycle.

- PCR frame length provides optimum low handle force for miniature connectors

- Unique "snap on" locator design for full visibility of connector and wire insertion

- Parallel action for precision and consistent crimp results

- Full cycle crimp mechanism to ensure consistent, reliable crimp

- Ratchet release mechanism to clear mis-crimps and obstructions

- Precision eccentric adjustment for consistent performance and ability to calibrate

- Tool-less die closure adjustment for maintenance and calibration

- Small size makes it easy to use in confined work areas

- Hole in handle allows attachment of safety strap Each tool has a unique serial number for traceability

JST France

PCC

PCC-05C
For SSUH-003T-P0.15 terminal

TECHNICAL DATAS:

<u>Length:</u> 190 mm / 7.48"

<u>Width:</u> 21 mm / 0.83"

<u>Height:</u> 74 mm / 2.91"

<u>Weight:</u> 317 gr / 0.7 lb (hand tool + die+ locator)

<u>Wire size:</u> 0.08 to 0.22 mm² / AWG# 28 to 24

<u>Crimp dimensions mm / mm²:</u> 0.08-0.22 mm²

<u>Crimp dimensions inch / AWG:</u> AWG# 28-24

<u>Connector:</u> for **SSUH-003T-P0.15** : contact from JST **SUH** serie

<u>Life cycles:</u> 50 000

- Equipped with a locator which optimizes contact installation & wire insertion. It simply achieves the crimp cycle.

- PCR frame length provides optimum low handle force for miniature connectors

- Unique "snap on" locator design for full visibility of connector and wire insertion

- Parallel action for precision and consistent crimp results

- Full cycle crimp mechanism to ensure consistent, reliable crimp

- Ratchet release mechanism to clear mis-crimps and obstructions

- Precision eccentric adjustment for consistent performance and ability to calibrate

- Tool-less die closure adjustment for maintenance and calibration

- Small size makes it easy to use in confined work areas

- Hole in handle allows attachment of safety strap Each tool has a unique serial number for traceability
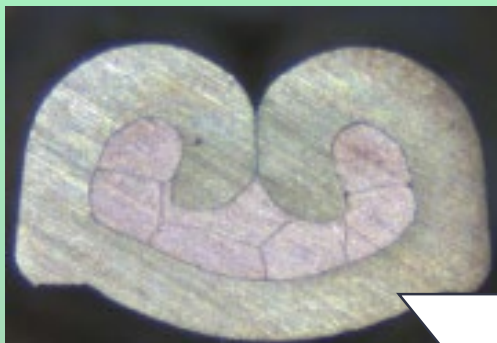
INNOVATION TOOLING RANGE
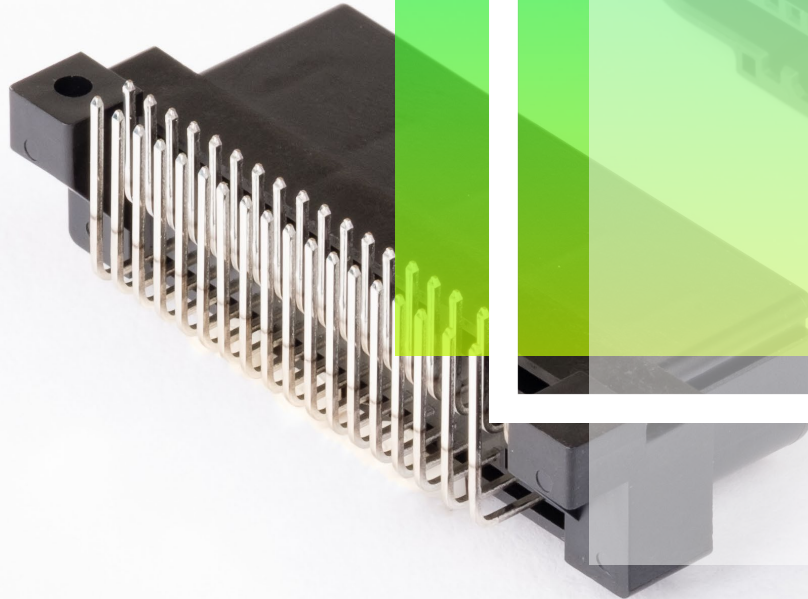
FOR YOUR WTW & WTB CONNECTIONS

Because bad crimping has an electrical impact and bad consequences on your connection, JST France decided to focus on offering his knowledge by providing adapted crimp tools to his whole range and customer's needs.

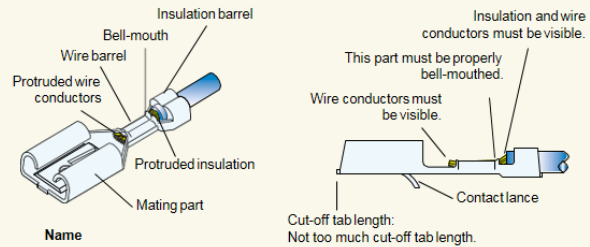Crimping is not only binding one wire to one terminal & a bad one can also cause severe defects.
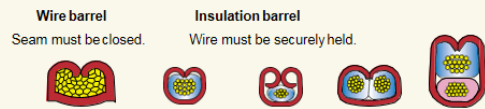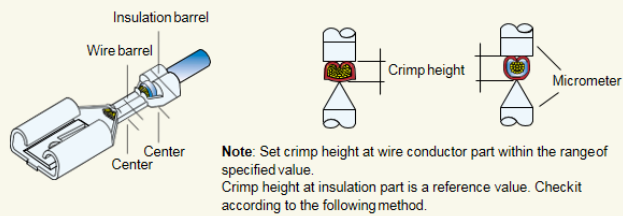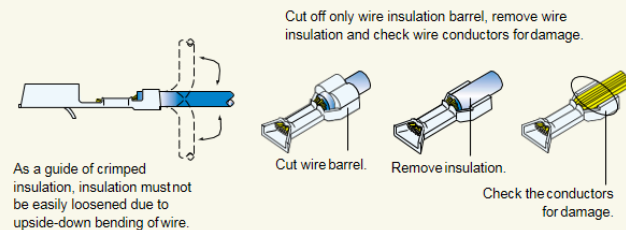
Good Ones

CRIMPING

Correct crimping

Name

- Insulation barrel
- Bell-mouth
- Wire barrel
- Protruded wire conductors
- Protruded insulation
- Mating part

- Insulation and wire conductors must be visible.
- This part must be properly bell-mouthed.
- Wire conductors must be visible.
- Contact lance
- Cut-off tab length: Not too much cut-off tab length.

Cross section at crimped part

Wire barrel
Seam must be closed.

Insulation barrel
Wire must be securely held.

Crimp height measurement

- Insulation barrel
- Wire barrel
- Center
- Center

Crimp height

Micrometer

Note: Set crimp height at wire conductor part within the range of specified value.
Crimp height at insulation part is a reference value. Check it according to the following method.

Check of insulation part

Cut off only wire insulation barrel, remove wire insulation and check wire conductors for damage.

As a guide of crimped insulation, insulation must not be easily loosened due to upside-down bending of wire.

Cut wire barrel.

Remove insulation.

Check the conductors for damage.

Incorrect crimping

Appearance defect

- Bend up
- Deformation of contact lance
- Bend down
- Twist
- Rolling
- Deformation of mating part
- Uncrimped conductor
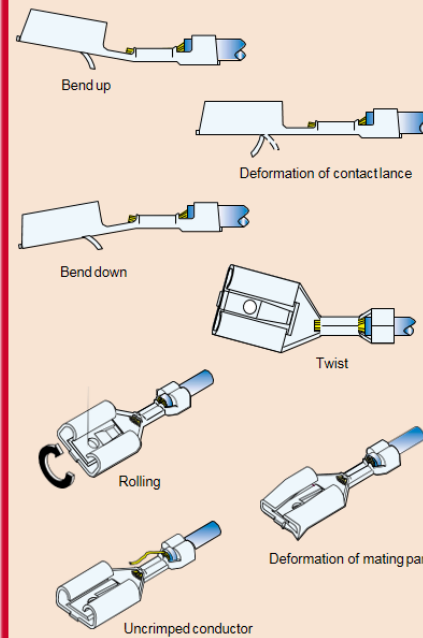
Cross section at crimped part of wire barrel

- Large burr
- Opening of seam
- One-sided burr
- Protruding of wire conductor

Bell-mouth

- No bell-mouth
- Too much bell-mouth
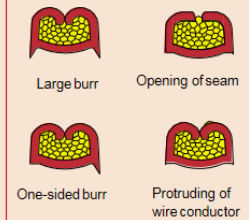
Cross section at crimped part of insulation barrel

Insufficient crimping
Insulation is not securely held.
Insulation barrel length is short.

Excessive crimping
Insulation is excessively pressed.
Wire conductors have damage or deformation.
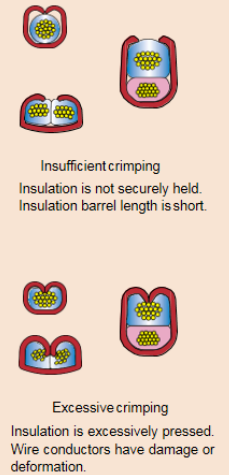
Wire conductors protruding length

Conductors protrude excessively.

Conductors do not protrude enough.
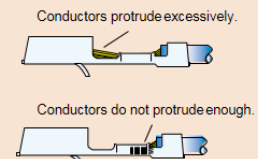
Wire insulation protruding length

Wire insulation is crimped at the wire barrel.

Wire insulation is incompletely crimped at the insulation barrel.

Cut-off tab length

No cut-off tab length.

Too much cut-off tab length.

THANK YOU

www.jst.fr

JST France