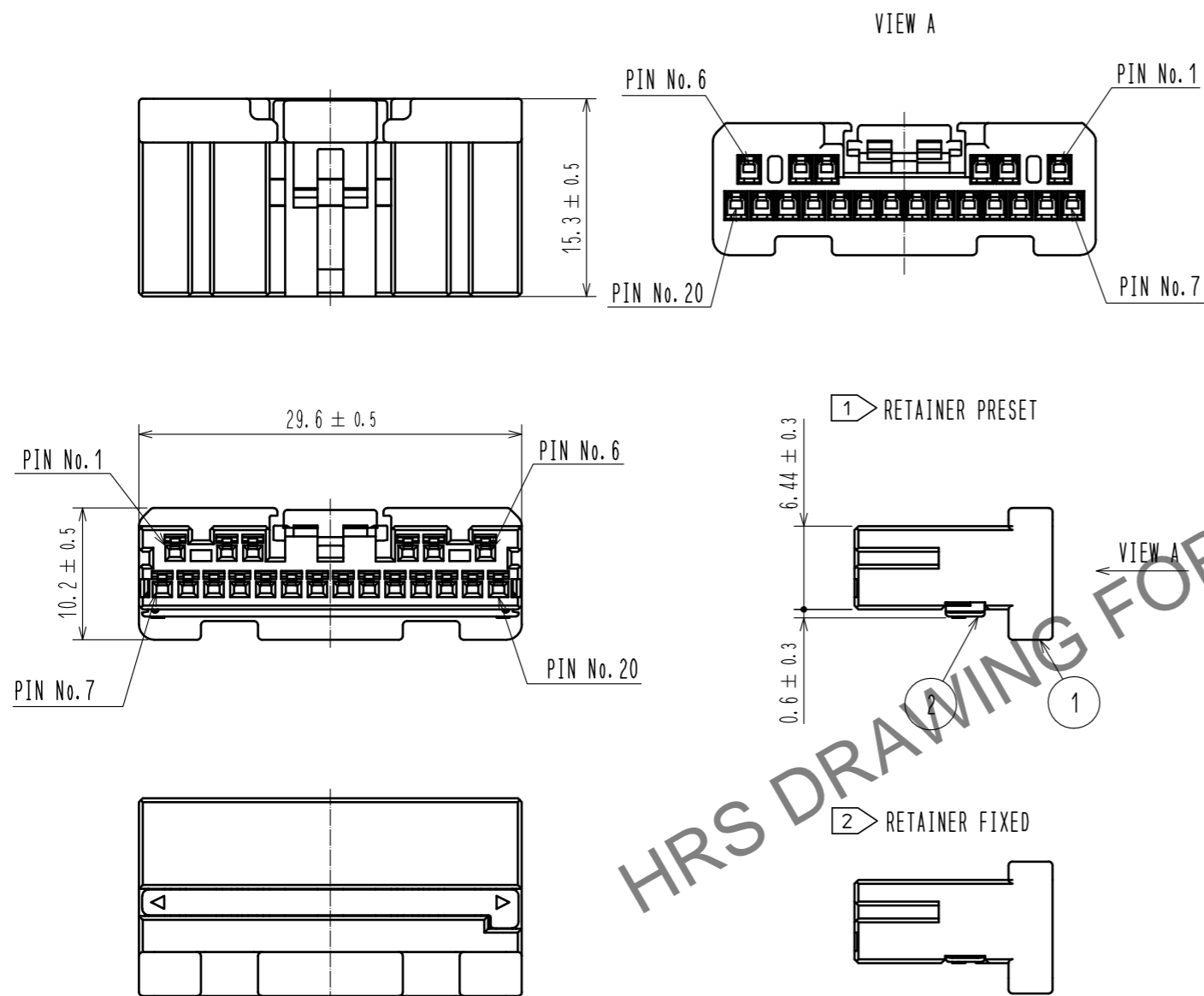


Oct.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.  
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

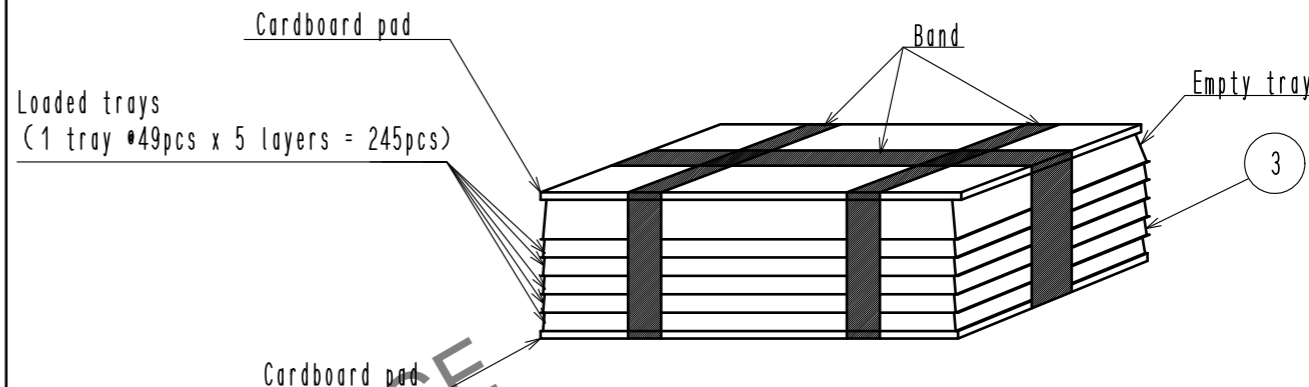
ELV, RoHS COMPLIANT



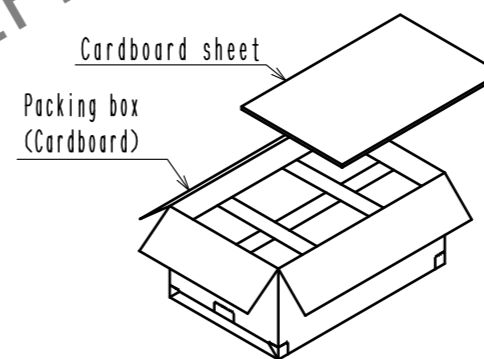
NOTE. 1 RETAINER IS TEMPORARILY ASSEMBLED INTO HOUSING.  
2 RETAINER TO BE COMPLETELY ASSEMBLED INTO POSITION AFTER CONTACT IS INSERTED.

### Packaging Specification

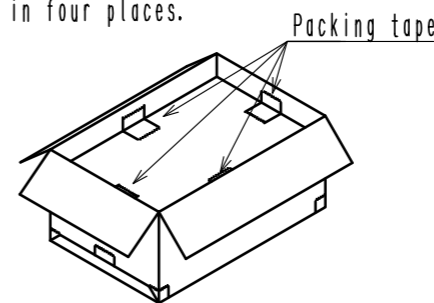
(1) After placing parts in trays, stack in six layers. (Top layer will be empty.)



(2) Place bound trays in box, then place cardboard sheet on top.

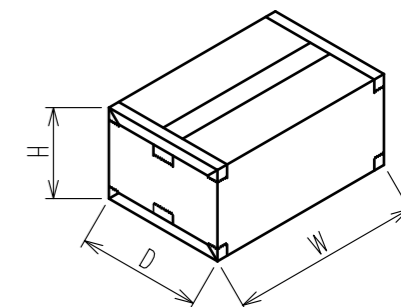


(3) Using packing tape, affix sheet of cardboard to box in four places.



(4) Place lid on box and seal with packing tape.

W=(365)mm  
D=(267)mm  
H=(126)mm



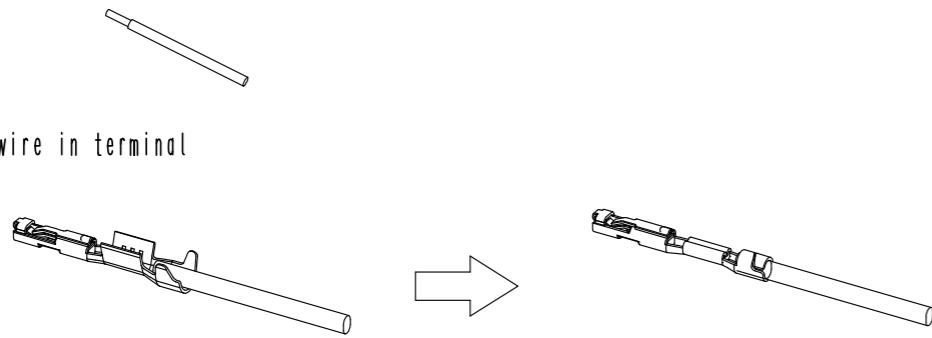
2	PA	NATURAL			
1	PA	BLACK	3	POLYSTYRENE	
NO.	MATERIAL	FINISH . REMARKS	NO.	MATERIAL	FINISH . REMARKS
UNITS mm		SCALE 2 : 1	COUNT 4	DESCRIPTION OF REVISIONS DIS-T-00006879	DESIGNED YH. MAMADA
					CHECKED HH. TSUKUMO
					DATE 20201019
<b>HRS</b>	HIROSE ELECTRIC CO., LTD.	APPROVED : HK. UMEHARA 20190323	CHECKED : HK. UMEHARA 20190323	DESIGNED : YH. MAMADA 20190323	DRAWN : DS. HIROWATARI 20190323
					DRAWING NO. EDC-368641-00-00
					PART NO. ZE05-20DS-HU/R
					CODE NO. CL752-2206-0-00

# ASSEMBLY PROCESS

① Strip the cable

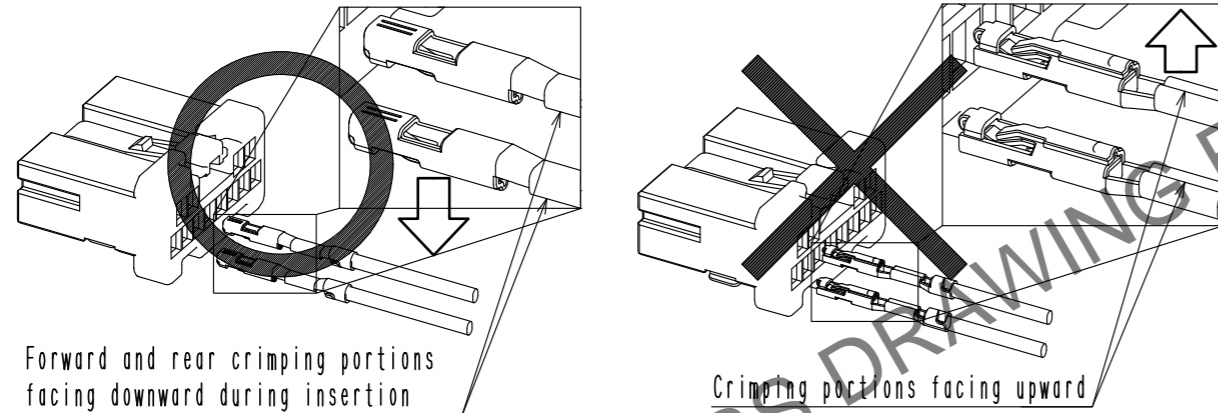
Note: Please refer to the Crimp Quality Standard (p.4) for details on strip length.

② Crimp wire in terminal



NOTE 1: Please use the Hirose crimp tool.  
NOTE 2: Please refer to the Crimp Quality Standard to confirm terminal compatibility and check crimp condition.

③ Insert contact and push until a click is heard.  
\*Please take care to ensure that the terminal is inserted in the correct orientation.

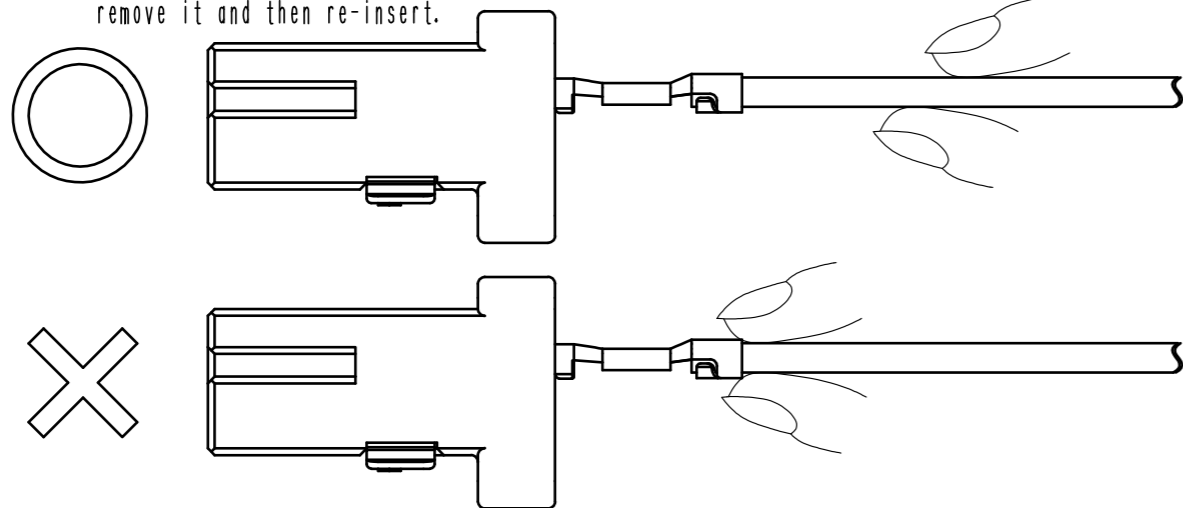


Forward and rear crimping portions facing downward during insertion

Crimping portions facing upward

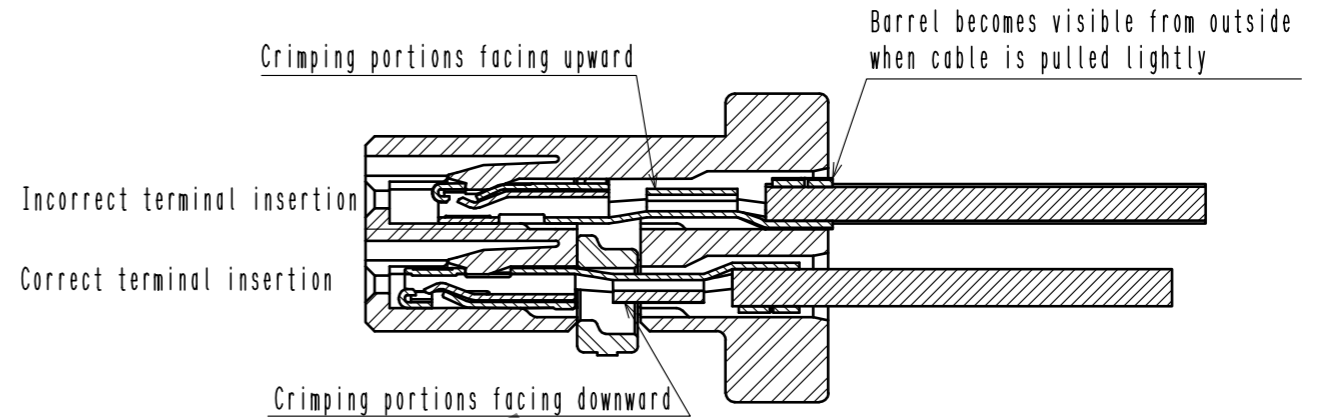
NOTE 1: Holding the cable, please insert straight into the housing. Do not use more than 10N of force during this process.  
\*Even in the incorrect orientation, holding the cable at the crimped terminal and applying a force in excess of 10N can result in insertion.

NOTE 2: If the crimped terminal does not enter the housing smoothly the first time, remove it and then re-insert.

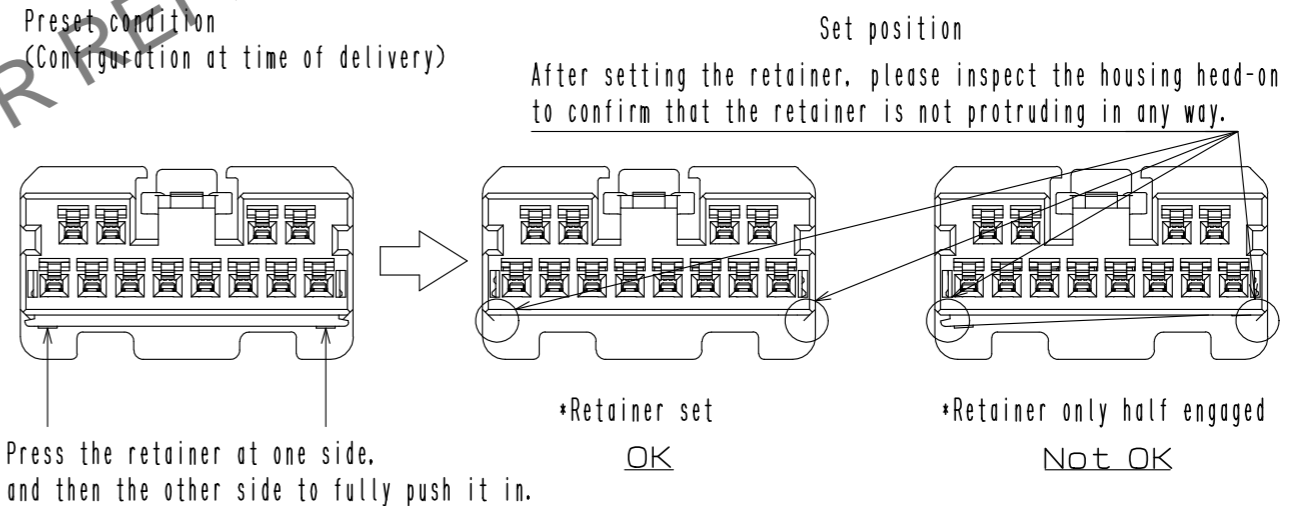


⚠ NOTE 3: Do not bend or twist the cable. Doing so may cause damage or deformation of the female housing and/or terminal.

④ After insertion, confirm that the terminal has been inserted correctly by pulling lightly on the cable.

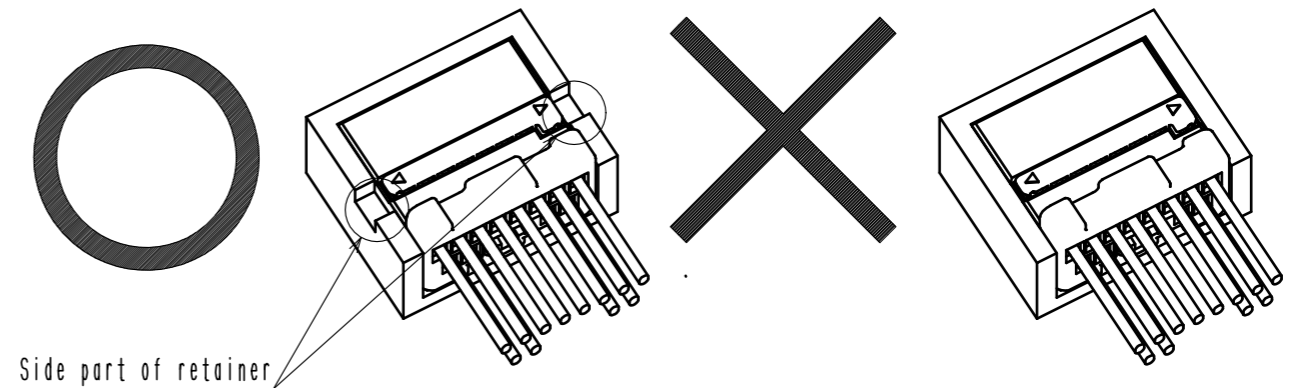


⑤ Press preset retainer until a click is heard. Please press the retainer at one side, and then the other side to fully push it in.



Press the retainer at one side, and then the other side to fully push it in.

⚠ In the event that a jig will be used for setting of the retainer, please ensure that there is clearance on either side of the retainer. Using a jig that does not allow such clearance may result in damage to the female housing of the time of retainer insertion.



Side part of retainer

\*Retainer set  
OK

\*Retainer only half engaged  
Not OK

<b>HRS</b>	DRAWING NO.	EDC-368641-00-00
	PART NO.	ZE05-20DS-HU/R
	CODE NO.	CL752-2206-0-00
		2/4

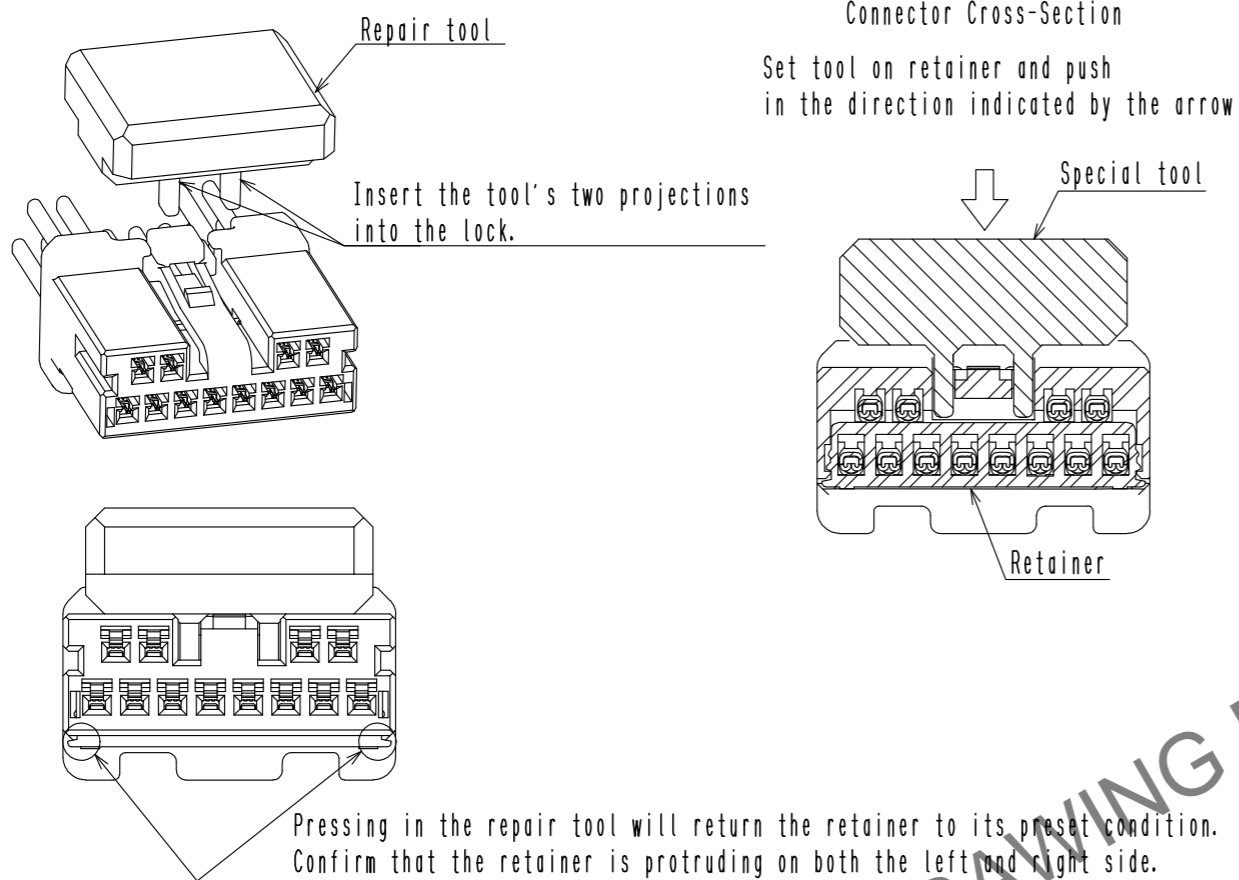
Oct.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved. In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

Oct.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.  
 In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

# REPAIR PROCESS

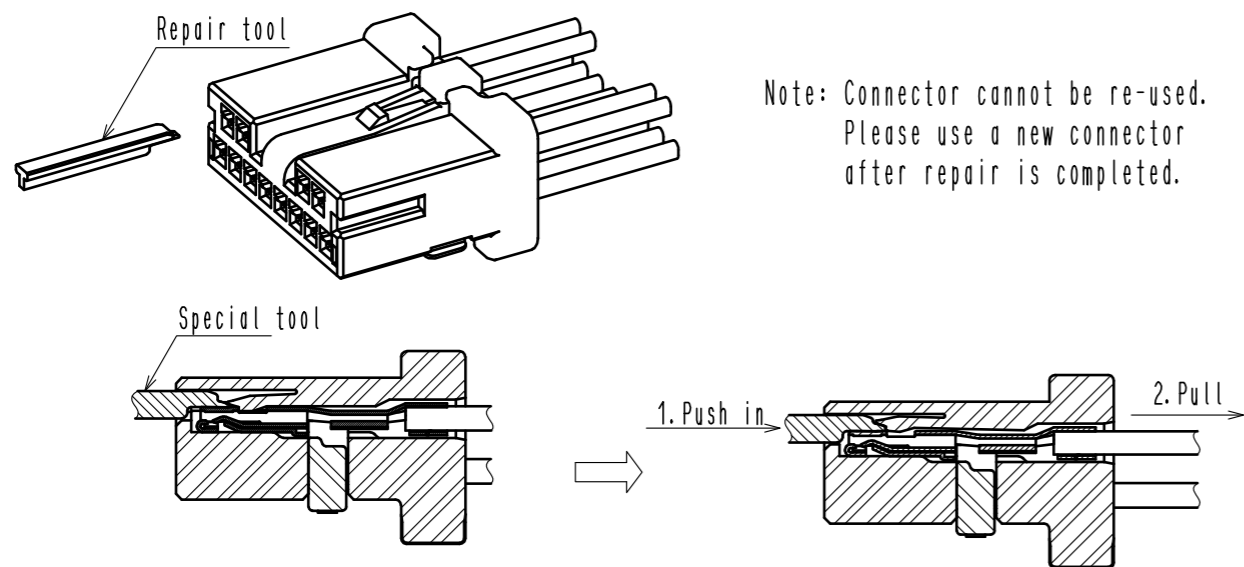
① Using the special repair tool, disengage the retainer lock and return the retainer to the preset condition.

Note: Please refer to the table on the right for details on the special tool.



② Insert the tool into the terminal cavity and push until contact with the terminal is made. Maintain this position and remove the terminal.

Note: Please refer to the table on the right for details on the special tool.



## ③ Repair tool summary

Retainer Repair Tools - Part Number Summary

Applicable Part	Repair Tool Name	Repair Tool Part Number
ZE05-2S-HU/R(##)	ZE05-2DC-HU/R/RE-MD	902-5144-0
ZE05-4S-HU/R(##)		
ZE05-5S-HU/R(##)		
ZE05-8DS-HU/R(##)	ZE05-12DC-HU/R/RE-MD	902-5143-0
ZE05-12DS-HU/R(##)		
ZE05-16DS-HU/R(##)		
ZE05-20DS-HU/R(##)	ZE05-20-24DC-HU/R/RE-MD	902-5160-0
ZE05-24DS-HU/R(##)		

(##) = specification number

Crimped Terminal Repair Tool - Part Number Summary

Applicable Part	Repair Tool Name	Repair Tool Part Number
ZE05-2022SC(F)(##)	ZE05/RE-MD	902-5145-0

(##) = specification number



DRAWING NO.	EDC-368641-00-00
PART NO.	ZE05-20DS-HU/R
CODE NO.	CL752-2206-0-00

3/4

## Other / Notes

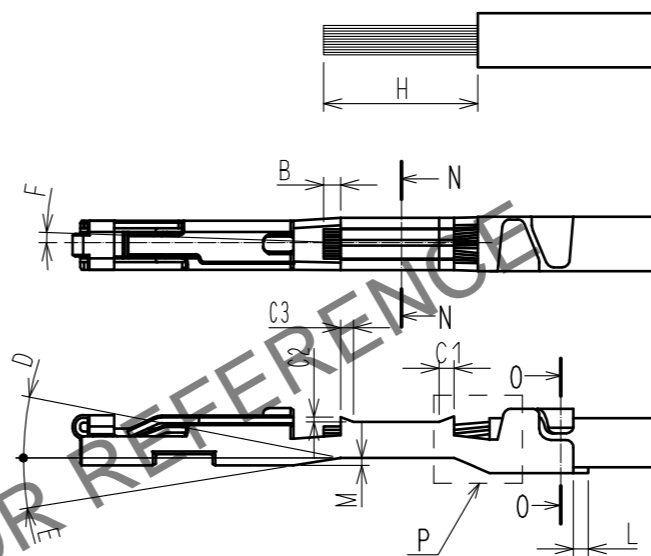
- 1) Do not touch the terminal contact points or the interior of the barrel.
- 2) In the event that the terminal must be handled, please wear gloves in order to prevent corrosion.
- 3) Placing items on top of a terminal or dropping a terminal may result in shape deformities or contamination. Please handle terminals with care.
- 4) In the event of terminals becoming tangled, please do not forcibly pull or bend them apart, but disentangle them carefully.
- 5) Use caution when handling terminals so as to avoid deformation.
- 6) Make sure that the terminals of crimped cables do not become entangled. When bundling or stacking cables, please prevent the terminals from being subjected to any external force.
- 7) Use caution to ensure that the part is not subjected to any large impacts.
- 8) Avoid storing in dusty areas.
- 9) Do not place wire harnesses on the floor.
- 10) Refrain from any handling that may result in terminal damage or deformation.
- 11) If the retainer is out of the housing, do not use either the housing or the retainer.
- 12) Do not use if the housing is dropped.

## CRIMP QUALITY STANDARD

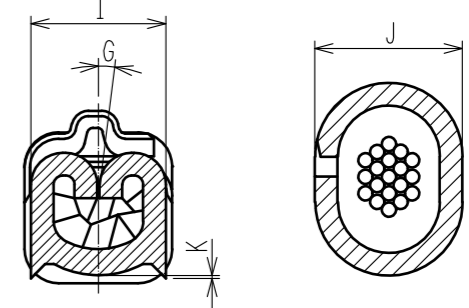
1. Scope  
This technical specification prescribes crimp condition of ZE05-2022SCF (CL752-2001-0)

2. Applicable wire
- Applicable wire size : 0.3~0.5SQ
  - Applicable insulation size :  $\phi 1.4 \sim \phi 1.7$   $\triangle$

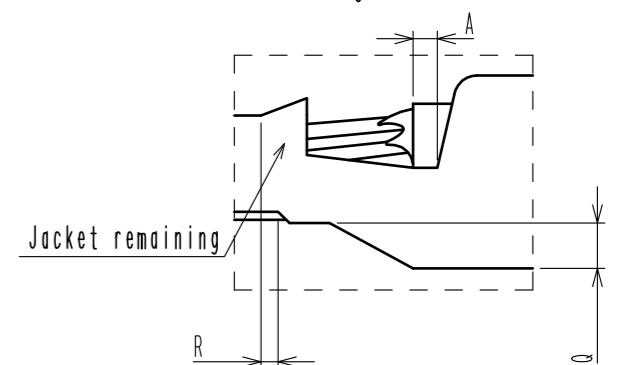
3. Quality standard



N-N(WIRE BARREL CROSS-SECTION IMAGE) O-O(INSULATION BARREL CROSS-SECTION IMAGE)



P enlarged view



CHECK POINT		MEASURE (mm)
JACKET LOCATION	A	0.3~0.8
LOCATION OF TIP OF THE CORE	B	0.1~0.6
BELL-MOUTH	C1	0.1~0.4
	C2	0.1 max
	C3	0.15 max
BEND-UP	D	2° max
BEND-DOWN	E	5° max
TWIST	F	±2° max
ROLLING	G	±5° max
STRIP LENGTH	H	4.0~4.6
WIDTH	WIRE BARREL	I 1.5 max
	INSULATION BARREL	J 1.63 max
HEIGHT OF METAL CUT-OUT TEETH	K	0.12 max
CUT-OFF TAB	L	0.1 max
DIFFERENCE IN LEVEL ON TRANSITION PART APPLY ONLY BEND-UP	M	0.2 max
DIFFERENCE IN LEVEL BETWEEN WIRE BARREL AND INSULATION BARREL	Q	0.25~0.4
DISTANCE BETWEEN WIRE-CRIMPER AND WIRE-ANVIL	R	0.15~0.31

Note1. Refer to a Crimping Data for the crimp height.

Note2. There is a possibility that a terminal is involved in jacket and crowded by the crimping, but it does no affect on the product function.

Note3. Please confirm that the crimped terminal can be inserted into a housing.

**HRS**

DRAWING NO.	EDC-368641-00-00
PART NO.	ZE05-20DS-HU/R
CODE NO.	CL752-2206-0-00

$\triangle$  4/4

HRS DRAWING FOR REFERENCE