# ZH05 SERIES INSTRUCTION SHEET

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⚠ Completely revised

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## 1. PURPOSE OF THIS DOCUMENT

This document provides explanations about Hirose part name ZH05-\*DP-HU(\*), compatible terminal crimping, harness assembly, and how to mate. Please read carefully before using connector.

Also, please keep it in a place where you can view it at any time, while using the connector.

Pictures and diagrams used in this document are of representative products.

The contents of this document are subject to change without any notice.

## 2. COMPONENTS



### COMPONENT PART SUMMARY

PART	PART DESCRIPTION	HIROSE PART NAME	NOTE
1	CRIMP TERMINAL	ZH05-2224PCF(*)	For 0.22 $\sim$ 0.35sq, tin plating
	HOUSING	ZH05-16DP-HU(*)	
2		ZH05-20DP-HU(*)	Applicable cable outer diameter
Ζ		ZH05-24DP-HU(*)	$\phi 0.9{\sim}1.4$ mm
		ZH05-32DP-HU(*)	
	DETAINED	ZH05-16DP-R	
2		ZH05-20DP-R	
3	RETAINER	ZH05-24DP-R	
		ZH05-32DP-R	
4	CABLE	_	_

 $\% \mbox{For products not listed above, please contact our sales department.}$ 



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1Cut the cable.

Please set the cut length referring to the dimensions below.



Estimated cable cut length = cable length above +7.5mm

②Strip and crimp the cable according to the crimp quality standards and crimp conditions table.



Note: Please use our company's crimping tool.

List of	crimping	tool	part	number
			•	

Part No.	Crimpi	HRS No.	
ZH05-2224PCF	Applicator	AP105-ZH05-2224P	901-5253-0
	Hand tools	_	_



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\*Contact is deformed

Note 2 : Hold the cable and insert the contact in the correct position. Also, do not insert the contact with more than 10N of force as it may deform the contact. XIf you hold the crimp terminal and insert it with a force of 10N or more, the terminal may become deformed, so please use a new terminal instead of reusing it.

Note 3 : If you feel something getting stuck when inserting the crimp terminal, pull the terminal out once. After confirming that the terminal is not deformed, insert the crimp terminal again. ④ After inserting the crimp terminal, check that the terminal is inserted correctly. Also, pull the cable lightly (10N or less) to check crimp terminal is locked with the lance.



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## [OK] Terminal is inserted correctly



[NG] Terminal is inserted upside down



[NG]Inserted to a different hole



(5)Inspection

After inserting the terminal, look at the connector from the mating side. Make sure the terminal is inserted without any problems. [Example for NG : Deformed terminals]





\*Barrel visible from the outside

\*Barrel visible from the outside

\*Barrel is not visible from the outside.





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Tips for electrical inspection

•Perform electrical inspection after installing the terminal and retainer.

•Be careful and please do not damage the housing, terminals, or retainer during the electrical inspection.

·If the housing, terminal, or retainer is damaged, please discard it and use a new product.



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Ⅲ. Repair Tools					
[Retainer Repair Tool]					
Applicable Part	Repair Tool Name	Repair Tool Part Number			
ZH05-16DP-HU(*)		002 5162 0			
ZH05-20DP-HU(*)					
ZH05-24DP-HU(*)	2005/ K/ KE-MD	902-5162-0			
ZH05-32DP-HU(*)					

[Contact repair tool]

Applicable Part	Repair Tool Name	Repair Tool Part Number
ZH05-2224PCF	ZH05/RE-MD	902-5161-0

## 5. Procedure of insertion and extraction

Prepare the board with the receptacle attached and plug of harness.
 Make sure the keys on the receptacle and plug are the same.
 Align the locking directions of the receptacle and plug, and insert them straight in the mating direction.



②Insert the connectors until they touch each other and locked.

 $\% \mbox{Please}$  do not touch the lock lever of the plug while inserting the connector.

It becomes difficult to feel the lock and may cause half-insertion.





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③When removing the connector, press down until the lock lever of the plug reaches the end (①), then grasp the plug housing and pull it out straight in the mating direction (②).
※If you remove the plug while the lock lever is not pushed down enough, the lock part may be damaged.



## 6. Other / Notes

- 1) Do not touch the terminal contact points or the interior of the barrel.
- 2) When handle terminals, 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.
- Make sure that the 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 pull the cable with a force of 20N or more when the retainer is not installed.



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