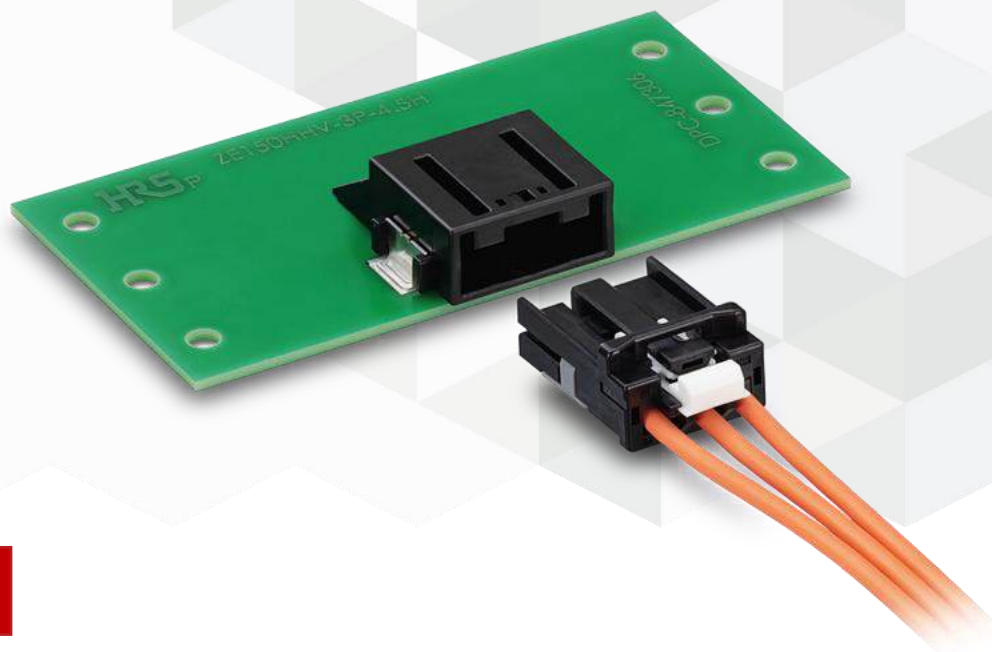


1.5 Size / 4.5mm Pitch High-Voltage, Wire to Board Connector



CES
Innovation
Awards
Honoree



Patented

Features

- 1 **High Voltage**
-Rated Voltage: 1,000V
-Withstand Voltage: 3,000V
- 2 **Rated Current: 10A (All pins powered)**
- 3 **Operating Temperature up to 125°C**
- 4 **High Vibration Resistance with Optimized Contact Design**
- 5 **CPA* Equipped**

* Connector Position Assurance

Click here to view the series page. <https://www.hirose.com/en/product/series/ZE150HV>

The CES Innovation Awards are based upon descriptive materials submitted to the judges. CTA did not verify the accuracy of any submission or of any claims made and did not test the item to which the award was given.

Product Specifications

Rated Current	10A (All pins power supply)
Rated Voltage	1,000V AC / DC
Operating Temperature	-40 to +125℃*
Contact Resistance	Initial: 3mΩ Max. After Testing: 10mΩ Max.
Withstanding Voltage	3,000V AC for 1 min.
Insulation Resistance	100MΩ Min. (1,000V DC)
Mating Durability	30 times

*Includes temperature rise due to current flow.

Materials / Finish

Part		MATERIAL	FINISH, REMARKS
Receptacle	Housing	PA	UL94V-0 / Black
	Contact	Copper Alloy	Tin Plating (Under Nickel Plated)
	Retention Tab	Brass	Tin Plating (Under Nickel Plated)
Plug	Housing	PA	UL94V-0 / Black
	Retainer	PA	UL94V-0 / Dark Gray
	CPA	PBT	UL94V-0 / White
Crimp Contact	Contact	Copper Alloy	Tin Plating (Under Copper Plated)

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Refer to the chart below when determining the product specifications from the product number.
Please select from the product numbers listed in this catalog when placing orders.

Connector

ZE150

H

HV

-

3

P

-

4.5

H

1

2

1

3

4

5

6

1 Series Name	ZE150HV
2 Retention Tab	H: SMT
3 No of Pos.	3 (Mass production) 5, 8, 10 (Under development)
4 Connector Type	P: Receptacle S: Plug
5 Pitch	4.5mm
6 Part Type	H: Right Angle HU/R/C: Housing / Retainer / CPA

Crimp Contact

ZE150

-

1618

SCF

7

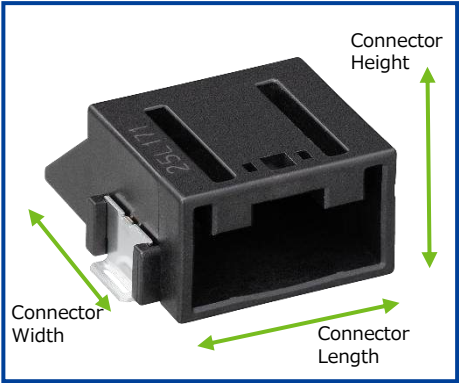
8

9

7 Contact Name	ZE150
8 Applicable Cable Size	1618: 16 to 18 AWG (0.75 to 1.25sq)
9 Form Type / Packaging	SCF: Female contact, Reel

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Receptacle (Right Angle SMT)

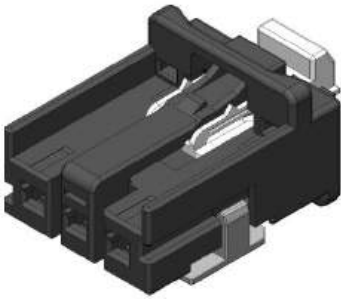
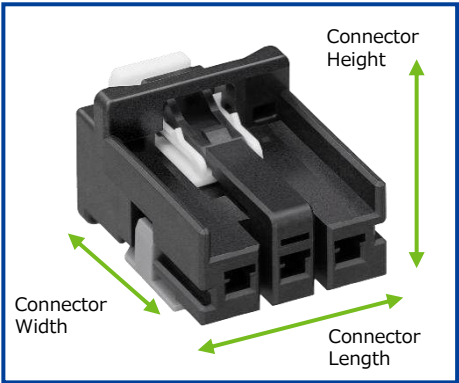


*Please refer to the following 2D drawing links for connector dimensions, recommended PCB dimensions, recommended temperature profiles, mated conditions, and packaging specifications.

(mm)

HRS No.	Part No.	No. of Pos.	WEB Link	2D	SPEC	3D		Connector Length	Connector Width	Connector Height
CL0757-1100-0-00	ZE150HHV-3P-4.5H	3	WEB	2D	SPEC	IGES	STEP	23.0	24.3	11.2

Plug

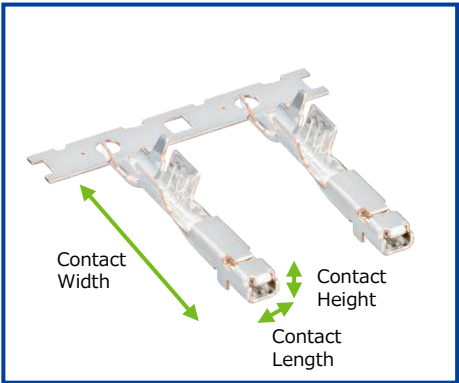


* Please refer to the following 2D drawing links for connector dimensions and packaging specifications

(mm)

HRS No.	Part No	No. of Pos.	WEB Link	2D	SPEC	3D		Connector Length	Connector Width	Connector Height
CL0757-1200-0-00	ZE150HV-3S-HU/R/C	3	WEB	2D	SPEC	IGES	STEP	15.5	24.5	12.3

Crimp Contact



* Please refer to the following 2D drawing links for contact dimensions and packaging specifications

(mm)

HRS No.	Part No.	WEB Link	2D	SPEC	Contact Length	Contact Width	Contact Height
CL0752-2003-0-00	ZE150-1618SCF	WEB	2D	SPEC	2.3	16.5	1.77

Note: Please consult our sales representative if you plan to use wires other than the specified compatible wires.

Applicable Tool

Type	HRS No.	Part No.	WEB Link	document	Remark
Applicator	CL0901-5261-0-00	AP105-ZE150-1618S	WEB	DOC	-
Contact Extracting Tool	-	-	-	-	Use precision tools

Note 1: Crimping operations shall be performed in accordance with the “Crimping Quality Standard” and “Crimping Condition Table.”
Note 2: Problems caused by the use of tools other than those specified by HIROSE are not covered by warranty.
Note 3: Problems occurring after contact repair are not covered by warranty.

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Reference documents for connector use are provided below.
Please review these documents before designing with or using this product. Each document can be accessed through the links in the table below.

Document Name	Overview
Product Guidelines	This document summarizes key points to consider during product design. It also includes important notes on mounting and handling. Please review this guideline before use. ● For details, please contact our sales representatives.
Instruction Manual for Handling Reel-Packaged Crimp Contacts	This instruction manual describes common handling practices for reel-packaged crimp contacts to help prevent issues such as winding loosening and contact damage. ● Instruction Manual: Click here
Wiring Procedure	This document describes wiring procedures. Please review it carefully before performing the work. ● Please contact our sales representatives for the wiring procedure.
Crimp Quality Standard Crimping Conditions Table	When handling this product, please refer to the documents below on our website. ● Crimp Quality Standard: Click here ● Crimping Conditions Table: Click here

While taking into consideration

Specifications mentioned in this catalog are reference values.

When considering to order or use this product, please review the Drawing and Product Specifications sheets.

Use an appropriate cable when using the connector in combination with cables.

If considering usage of a non-specified cable, please contact your sales representative.

If assembly process is done by jigs & tools which are not identified by Hirose, the warranty of the product may be affected.

If considering usage for below mentioned applications, please contact your sales representative.

In cases where the application will demand a high level of reliability, such as automotive, medical instruments, public infrastructure, aerospace/ defense etc. Hirose must review before assurance of reliability can be given.