

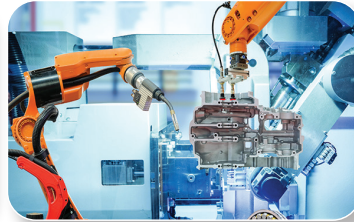
Applications:



Automotive Battery Management



Power Conversion Systems



Industrial Equipment



Finger Protect



High Temp



Contact Reliability

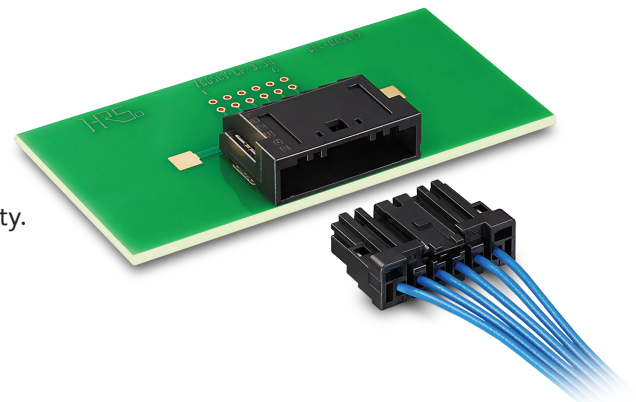
Experience the advanced engineering of Hirose's ZG05HV Series.

Discover Hirose Electric's ZG05HV Series: Engineered for high-voltage applications, this wire-to-board connector combines a robust design with advanced safety features. Rated for 1,000V AC/DC and withstanding 3,000V, it offers superior performance in compact, high-heat environments up to 125°C, making it ideal for demanding industrial uses.

HIGHLIGHTS:

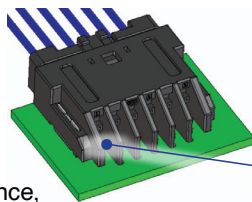
Key features of the ZG05HV Series include:

- Rated for 1,000V AC/DC with a high withstanding voltage of 3,000V to excel in power-intensive environments.
- Featuring a safety-first Electric Shock Prevention Design. This provides electric shock protection, thereby enhancing assembly safety.
- It is capable of enduring extreme conditions, offering high heat resistance up to 125°C and robust vibration resilience.
- Its compact design optimizes space while maintaining necessary electrical clearance, blending high performance with efficiency.



Creepage Distance/Spatial Distance

Rated Voltage: 1,000V AC/DC, Withstanding Voltage: 3,000V AC



IEC60664 Reference, Pollution Degree 2, Altitude 5,000m



The unique rib structure of the ZG05HV Hirose connector allows for a compact design suitable for 1000V use. The protruding ribs on the housing increases the creepage and spatial distance between contacts, ensuring high rated voltage and withstanding voltage in a compact form factor.

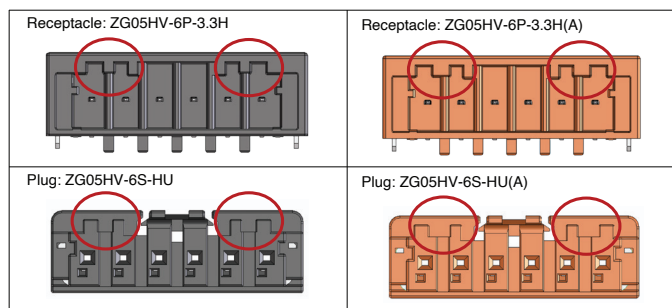
Mating Keys

Prevents Mis-mating When Using Multiple Connectors

[CLICK HERE FOR MORE INFORMATION](#)

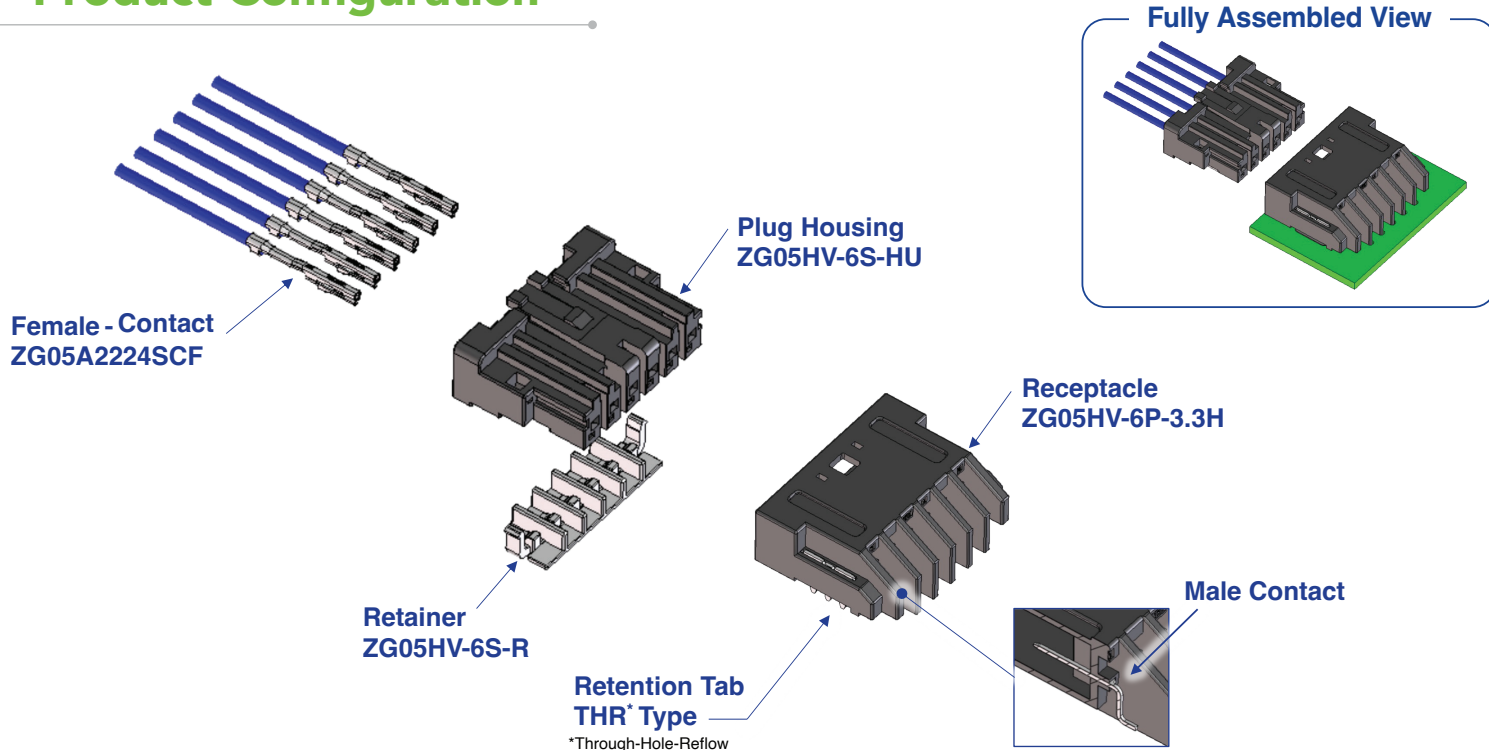
Standard (Black)

A Key (Orange)



[CLICK HERE TO ORDER SAMPLE NUMBER: US-ZG05HVSAMPLE-24](#)

Product Configuration



Material and Finish

COMPONENT		MATERIAL	FINISH, REMARKS
Receptacle	Housing	PA	UL94V-0, Black or Orange
	Contact	Brass	Tin Plating (Nickle Underplating)
	Retention Tab	Brass	Tin Plating (Nickle Underplating)
Plug	Housing	PA	UL94V-0, Black or Orange
	Retainer	PA	UL94V-0, Dark Gray
Crimp Contact		Copper Alloy	Tin Plating (Copper Underplating)

Performance Characteristics

Rated Current	1A (All pins power supply)
Rated Voltage	1,000V AC/DC
Operating Temperature	-40 to +125°C*
Contact Resistance	Initial: 10mΩ Max. After Testing: 20mΩ Max.
Withstanding Voltage	3,000V AC for 1 min.
Insulation Resistance	100MΩ Min. (1,000V DC)
Mating Durability	30 times

*Includes the temperature rise due to current flow.

- RoHS2 Compliant
- No. of Pos.: 6pos. (Mass Production), 10pos. (Under Planning)
- Applicable Cable: 22, 24 AWG (0.22-0.35sq), Jacket Outer Diameter ϕ 1.1-1.4mm
- Mating Keys: Standard and A, Two Key Types



For additional information please go to www.hirose.com/product/series/ZG05HV
 Specifications herein are subject to change without notice.
 Contact Hirose for latest specifications, drawings, or availabilities.

STAY CONNECTED

