

Applications



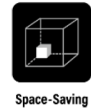
ADAS & Infotainment



Automotive Lighting Systems



Agriculture, Construction Machines

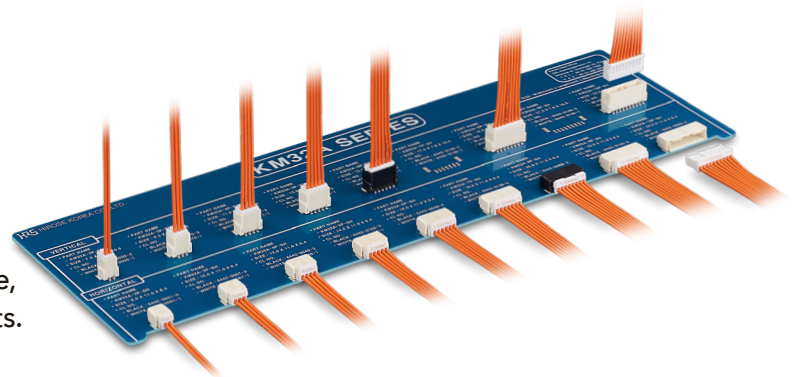


Discover Hirose's KM32A Series, a compact and high-performance wire-to-board connector with a 2.0mm pitch and 0.5mm terminal tab size. Designed for space-constrained automotive, agriculture, & heavy equipment applications, it offers straight and right-angle interface options for flexible board layouts.

The secure center-lock mechanism prevents incomplete mating, mis-insertion, and lock damage, while its high retention force ensures a stable connection with an audible click for clear confirmation.

KEY BENEFITS OF THE KM32A SERIES INCLUDE:

- A compact 2.0mm pitch and 0.5mm terminal tab size, optimizing space in high-density designs.
- Multiple variations, including straight and right-angle interface options for design flexibility.
- A secure center-lock mechanism prevents incomplete mating, mis-insertion, and potential lock damage.
- A unique contact design enhances vibration resistance, improving durability in harsh automotive environments.



Dimensions

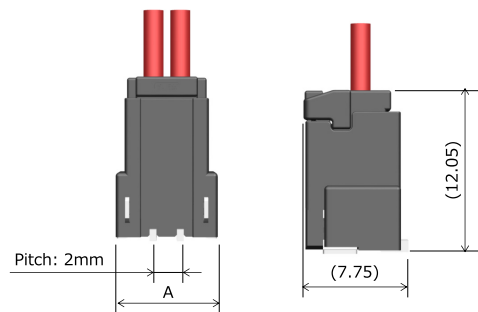
2.0mm Pitch, Center Lock Design

CLICK HERE
FOR MORE INFORMATION

CLICK HERE TO ORDER
SAMPLE NUMBER:
US-KM32ASAMPLE-25

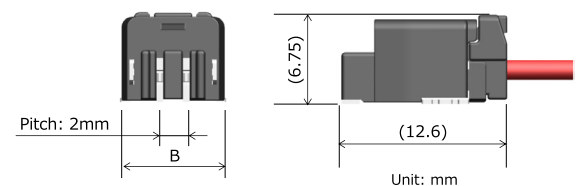
Straight Type

- Dimension Example: 2pos.



Right Angle Type

- Dimension Example: 2pos.

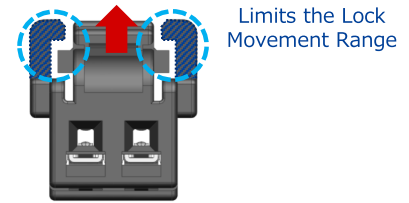


No. of Pos.	2	3	4	5	6	7	8	9	10
Dimension A	7.5	9.5	11.5	13.5	15.5	17.5	19.5	21.5	23.5
Dimension B	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0

Lock Damage Prevention Design

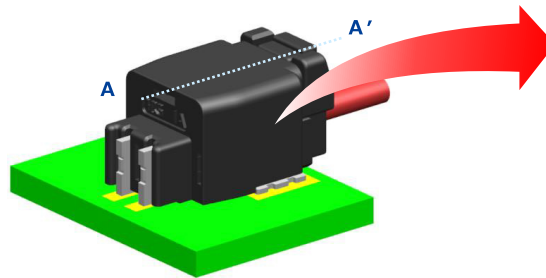


Lock Damage Prevention Design Viewed from the Front of the Socket

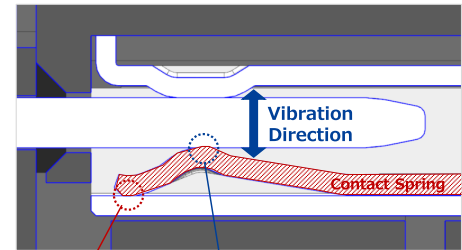


- Limit the Lock Movement Range and Prevents Cable Snaring
- Prevents Lock Damage

Vibration-Resistant Terminal



A-A' Section



Contact Between Female Terminal and Tab Terminal
The contact spring is securely fixed, enhancing vibration resistance.

Specifications

Material/Finish

Component		Material	Finish, Remarks
Plug	Housing	PA66	White or Black *1
	Female Contact	Copper Alloy	Tin Plating
Receptacle	Housing	PPS	White or Black *1
	Male Contact	Brass	Tin Plating
	Retention Tab	Brass	Tin Plating

*1 There is no mating key code structure. Combinations are possible regardless of the color.

*2 This product satisfies halogen free requirements defined as 900ppm maximum chlorine, 900ppm maximum bromine, and 1500ppm maximum total of chlorine and bromine.

Performance Characteristics

Rated Current	5A (20 AWG)
Rated Voltage	60V AC/DC
Operating Temperature	-40 to +125°C*3
Low Voltage Current Resistance	25mΩ Max.
Withstanding Voltage	1,000V AC for 1 min.
Insulation Resistance	1,000MΩ Min. (500V DC)
Mating Durability	10 times
Insertion and Removal Force	75N Max.

- No. of Pos.: 2-6, 8, 10pos. (Mass Production), 7, 9pos. (Under Planning)
- Applicable Cable: 20 AWG
- RoHS Compliant

*3 Includes the temperature rise due to current flow.



For additional information please go to
www.hirose.com/product/series/KM32A

Specifications herein are subject to change without notice.
Contact Hirose for latest specifications, drawings, or availabilities.

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