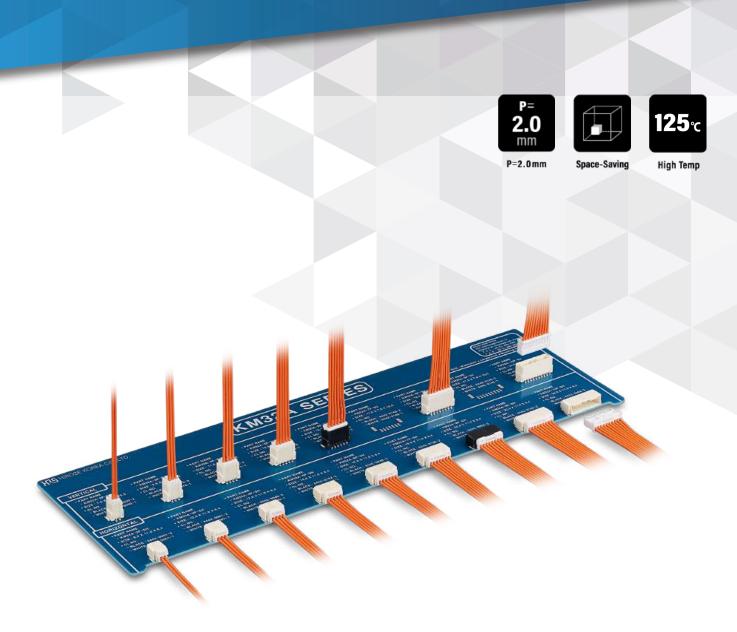


KM32A Series

2.0mm Pitch, 0.5 Terminal Tab Size, Wire-to-Board Connector





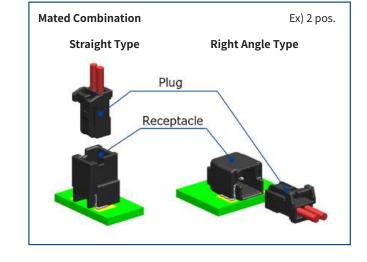
Features

1. Space-saving and **Wide Variations**

Space-saving design reduces the size of end products.

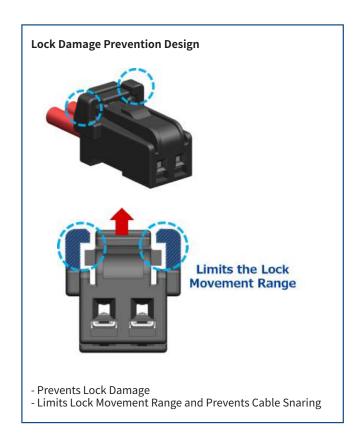
Multiple variations are available.

- Interface Types: Straight / Right Angle
- Single-row



2. Meets strict automotive requirements.

3. Center lock design prevents incomplete mating, misinsertion, and lock damage



Excellent Contact Retention

4. Secure Terminal Retention and Audible Click Feedback

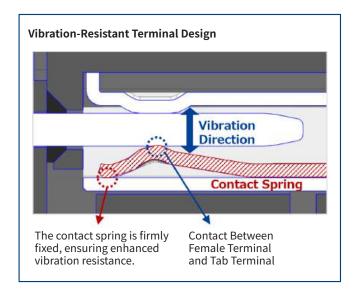
With a lance strength of up to 60N, the design ensures that contacts remain securely in place during wiring, even without a retainer.

The audible click provides clear confirmation of secure mating, reducing the risk of improper connections.

Increase terminal retention by adding ribs **High Coupling Sound Design Overlap Point** A-A' Section The addition of ribs to the lever overlap generates a distinct audible click.

5. Unique Contact Design **Ensures Reliable Vibration** Resistance

Enhanced contact design ensures reliability under intense vibration.





Product Specifications

Rated Current	5A	Operating Temperature (Note 1)	-40 to +125°C
Rated Voltage	60V AC/DC		

Items	Specifications	Conditions
Low Voltage Current Resistance	25mΩ Max.	Apply current 10mA
Insulation Resistance	1,000MΩ Min.	Measured at 500V DC
Withstanding Voltage	No insulation breakdown.	Apply 1,000V AC for 1 minute
Mating Durability	Low voltage current resistance: 25mΩ Max. Insertion and removal force: 75N Max. Terminal retention force: 35N Min.	10 times
Thermal Shock	Low voltage current resistance: 25mΩ Max. Voltage drop: 25mV/A Max. Terminal Crimp Strength: 50N Min. Terminal retention force: 35N Min. Connector retention force: 100N Min.	Leave it at +125°C(Max.) and -40°C(Min.) for about 1,000 cycles

Note 1: Includes the temperature rise due to current flow. Note 2: Please refer to the specification sheet for details.

Materials / Finish

Product	Component	Materials	Color / Finish
	Insulator	PPS	White or Black
Receptacle	Male Contact	Brass	Tin Plating
	Retention Tab	Brass	Tin Plating
Dive	Insulator	PA66	White or Black
Plug	Female Contact	Copper Alloy	Tin Plating

Product Number Structure

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.

Receptacle / Plug

$$\frac{\mathsf{KM32A}}{\bullet} \quad - \quad \frac{\mathsf{2}}{\bullet} \quad \frac{\mathsf{P}}{\bullet} \quad - \quad \frac{\mathsf{SV}}{\bullet} \quad \frac{(\mathsf{W})}{\bullet} \quad \frac{(\mathsf{CAP})}{\bullet} \quad \frac{(\mathsf{800})}{\bullet}$$

Crimp Contact

KM32A	<u>F</u>	TML	<u>(L)</u>	(800)
•	7	4	8	

Series Name	KM32A	6 Color (Note)	W : White B : Black
2 No. of Pos.	Straight : 2-6, 8, 10pos. Right Angle : 2-6, 8, 10pos.	6 Etc.	Cap : With Cap
3 Connector Type	P : Receptacle S : Plug	Product Type	F : Female Crimp Contact
4 Product Type	SV : Straight SMT SH : Right Angle SMT HU : Plug Housing TML : Crimp Contact	Contact Size	L : Large (Applicable Cable : 20 AWG)

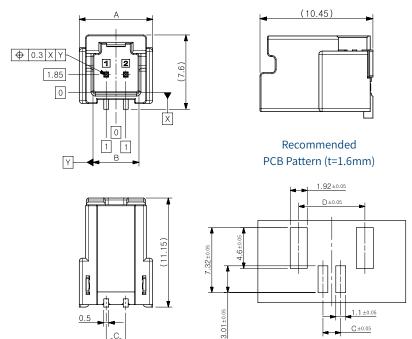
 $Note: There is no \ mating \ key \ code \ structure. \ Combinations \ are \ possible \ regardless \ of \ the \ color.$



Straight Receptacle

Single-row





Unit: mm

Part No.	HRS No.	Color (Note 1)	No. of Pos.	А	В	С	D	Purchase Unit
KM32A-2P-SV(B)(CAP)(800)	CL0480-1157-0-00	Black	2	7.5	4.7	2.0	7.47	
KM32A-2P-SV(W)(CAP)(800)	CL0480-1158-0-00	White	2	1.5	4.1	2.0	1.41	
KM32A-3P-SV(B)(CAP)(800)	CL0480-1161-0-00	Black	3	9.5	6.7	4.0	9.47	
KM32A-3P-SV(W)(CAP)(800)	CL0480-1162-0-00	White	3	9.5	0.7	4.0	9.41	
KM32A-4P-SV(B) (CAP)(800)	CL0480-1165-0-00	Black	4	11.5	8.7	6.0	11.47	
KM32A-4P-SV(W)(CAP)(800)	CL0480-1166-0-00	White	4	11.5	8.1	6.0	11.47	
KM32A-5P-SV(B)(CAP)(800)	CL0480-1169-0-00	Black	_	12.5	10.7	0.0	12.47	
KM32A-5P-SV(W)(CAP)(800)	CL0480-1188-0-00	White	- 5	13.5	10.7	8.0	13.47	
KM32A-6P-SV(B)(CAP)(800)	CL0480-1172-0-00	Black	- 6	15.5	12.7	10.0	15.47	510pcs
KM32A-6P-SV(W)(CAP)(800)	CL0480-1173-0-00	White		15.5	12.1	10.0	15.47	per reel
KM32A-7P-SV(B)(CAP)(800)	Under Planning (Note 2)	Black	7	17.5	14.7	12.0	17.47	
KM32A-7P-SV(W)(CAP)(800)	Under Planning (Note 2)	White	'	11.5	14.7	12.0	17.47	
KM32A-8P-SV(B)(CAP)(800)	CL0480-1176-0-00	Black	- 8	19.5	16.7	14.0	19.47	
KM32A-8P-SV(W)(CAP)(800)	CL0480-1177-0-00	White	0	19.5	10.7	14.0	19.47	
KM32A-9P-SV(B)(CAP)(800)	Under Planning (Note 2)	Black	- 9	21.5	18.7	16.0	21.47	
KM32A-9P-SV(W)(CAP)(800)	Under Planning (Note 2)	White	9	21.5	18.7	16.0	21.47	
KM32A-10P-SV(B)(CAP)(800)	CL0480-1180-0-00	Black	10	22.5	20.7	10.0	22.47	
KM32A-10P-SV(W)(CAP)(800)	CL0480-1181-0-00	White	10	23.5	20.7	18.0	23.47	

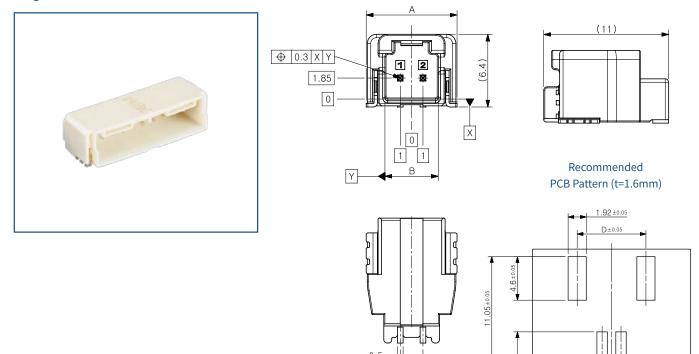
 $Note \ 1: There is no \ mating \ key \ code \ structure. \ Combinations \ are \ possible \ regardless \ of \ the \ color.$

Note 2 : Products without HRS No. are currently being planned for development.

Please contact a Hirose representative regarding questions on pin count variation development.

Right Angle Receptacle

Single-row



Unit : mm

1.1±0.05

Part No.	HRS No.	Color (Note 1)	No. of Pos.	Α	В	С	D	Purchase Unit
KM32A-2P-SH(B)(800)	CL0480-1155-0-00	Black	2	8.0	4.7	2.0	7.27	
KM32A-2P-SH(W)(800)	CL0480-1156-0-00	White	2	8.0	4.7	2.0	1.21	
KM32A-3P-SH(B)(800)	CL0480-1159-0-00	Black	3	10.0	6.7	4.0	9.27	
KM32A-3P-SH(W)(800)	CL0480-1160-0-00	White	3	10.0	6.7	4.0	9.27	
KM32A-4P-SH(B)(800)	CL0480-1163-0-00	Black	4	12.0	8.7	6.0	11.27	840pcs
KM32A-4P-SH(W)(800)	CL0480-1164-0-00	White	4	12.0	0.1	6.0	11.27	per reel
KM32A-5P-SH(B)(800)	CL0480-1167-0-00	Black	- 5	14.0	10.7	8.0	13.27	
KM32A-5P-SH(W)(800)	CL0480-1168-0-00	White] 3	14.0	10.7	8.0	15.27	
KM32A-6P-SH(B)(800)	CL0480-1170-0-00	Black	- 6	16.0	12.7	10.0	15.27	
KM32A-6P-SH(W)(800)	CL0480-1171-0-00	White	5 6	16.0	12.7	10.0	15.27	
KM32A-7P-SH(B)(800)	Under Planning (Note 2)	Black	- 7	18.0	14.7	12.0	17.27	
KM32A-7P-SH(W)(800)	Under Planning (Note 2)	White	'	16.0	14.7	12.0	11.21	
KM32A-8P-SH(B)(800)	CL0480-1174-0-00	Black	- 8	20.0	16.7	14.0	19.27	
KM32A-8P-SH(W)(800)	CL0480-1175-0-00	White	0	20.0	10.7	14.0	19.27	730pcs
KM32A-9P-SH(B)(800)	Under Planning (Note 2)	Black	0	22.0	18.7	16.0	21.27	per reel
KM32A-9P-SH(W)(800)	Under Planning (Note 2)	White	- 9	22.0	10.1	16.0	21.21	
KM32A-10P-SH(B)(800)	CL0480-1178-0-00	Black	- 10	24.0	20.7	18.0	23.27	
KM32A-10P-SH(W)(800)	CL0480-1179-0-00	White	10	24.0	20.7	18.0	23.21	

Note 1: There is no mating key code structure. Combinations are possible regardless of the color. Note 2: Products without HRS No. are currently being planned for development.

Please contact a Hirose representative regarding questions on pin count variation development.

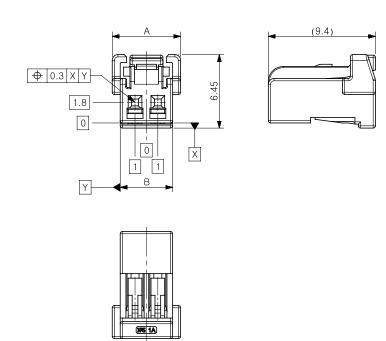


Plug

Single-row







Unit · mm

Part No.	HRS No.	Color (Note 1)	No. of Pos.	Α	В	Purchase Unit
KM32A-2S-HU(B)(800)	CL0480-1182-0-00	Black	2	6.0	4.6	
KM32A-2S-HU(W)(800)	CL0480-1183-0-00	White	2	6.0	4.6	
KM32A-3S-HU(B)(800)	CL0480-1184-0-00	Black	3	8.0	6.6	
KM32A-3S-HU(W)(800)	CL0480-1185-0-00	White	3	8.0	6.6	
KM32A-4S-HU(B)(800)	CL0480-1186-0-00	Black	4	0.0	0.0	4,000pcs
KM32A-4S-HU(W)(800)	CL0480-1187-0-00	White	4	8.6	8.6	per bag
KM32A-5S-HU(B)(800)	CL0480-1146-0-00	Black	_	10.6	10.6	
KM32A-5S-HU(W)(800)	CL0480-1189-0-00	White	5	10.6	10.6	
KM32A-6S-HU(B)(800)	CL0480-1190-0-00	Black		12.6	12.6	
KM32A-6S-HU(W)(800)	CL0480-1191-0-00	White	6	12.6	12.6	
KM32A-7S-HU(B)(800)	Under Planning (Note 2)	Black	7	14.6	14.6	
KM32A-7S-HU(W)(800)	Under Planning (Note 2)	White		14.6	14.6	
KM32A-8S-HU(B)(800)	CL0480-1192-0-00	Black	. 8	16.6	16.6	
KM32A-8S-HU(W)(800)	CL0480-1193-0-00	White	8	16.6	16.6	3,000pcs
KM32A-9S-HU(B)(800)	Under Planning (Note 2)	Black	0	18.6	10.0	per bag
KM32A-9S-HU(W)(800)	Under Planning (Note 2)	White	9	18.6	18.6	
KM32A-10S-HU(B)(800)	CL0480-1194-0-00	Black	10 20.6	20.0	20.5	
KM32A-10S-HU(W)(800)	CL0480-1195-0-00	White		20.6	20.6	

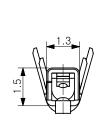
Note 1: There is no mating key code structure. Combinations are possible regardless of the color.

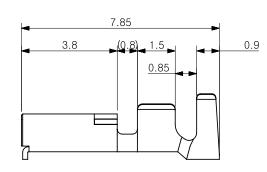
Note 2 : Products without HRS No. are currently being planned for development.

Please contact a Hirose representative regarding questions on pin count variation development.

Crimp Contact







Part No.	HRS No.	Applicable Cable	Purchase Unit
KM32A F TML(L)(800)	CL0480-1115-0-00	20 AWG (0.5sq)	7,000pcs per reel

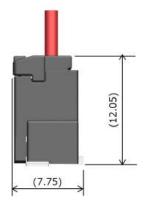
Applicable Crimping Tools

Туре	Part No.	HRS No.	Applicable Contact
Automatic Crimp Press	CM-105C	CL0901-0001-0-00	-
Applicator	AP105-KM32A-2022S	CL0901-7004-0-00	KM32A F TML(L)(800)

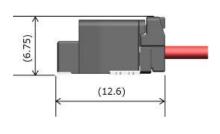
Note 1: Please conduct crimping work according to the Crimp Quality Standard and the Crimp Condition Table. Note 2: Any problems that occur from using tools other than those specified by Hirose are not covered by the warranty.

Mated Dimensions Diagram

Straight Receptacle to Plug Connection

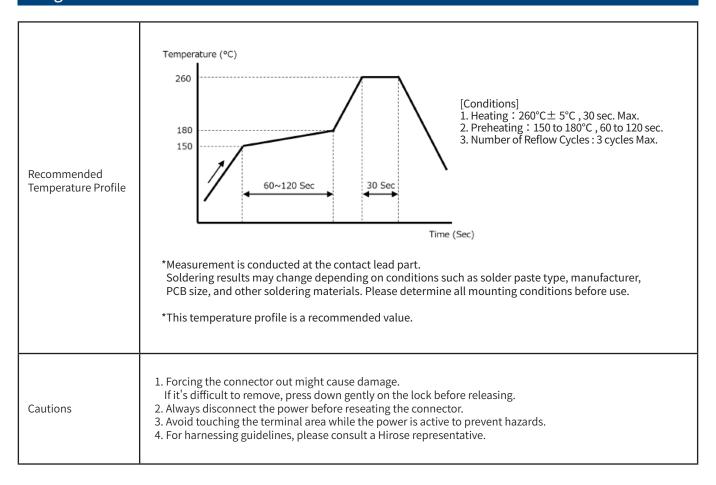


Right Angle Receptacle to Plug Connection





Usage Precautions



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 beaffected.

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.

HIROSE