

Applications



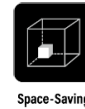
Robotics Applications



Automotive Applications



Agricultural Applications



Space-Saving



Wide Variation



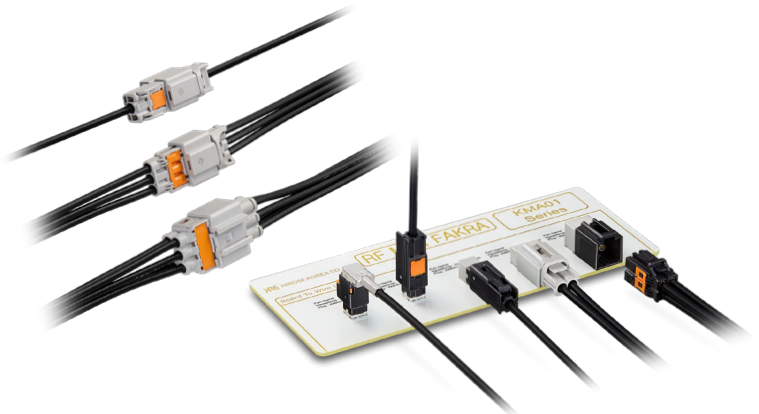
6 GHz

Introducing Hirose's KMA01 Series—an RF coaxial connector designed for stable high-frequency signal transmission in compact systems. Supporting performance up to 6GHz with VSWR ≤ 1.5 , the KMA01 Series enables reliable video and antenna communication while maintaining signal integrity in space-constrained designs.

The KMA01 Series features a low-profile design with wire-to-board and wire-to-wire configurations for flexible system architecture. Its automotive-grade construction supports operation under vibration and temperature variation, while compatibility with $\varnothing 3.0$ coaxial cable and multiple layout options enable consistent integration across a range of applications.

KEY BENEFITS OF THE KMA01 SERIES INCLUDE:

- A low-profile coaxial connector design with wire-to-board and wire-to-wire configurations for flexible system architecture
- High-frequency performance with VSWR ≤ 1.5 up to 6GHz, enabling stable RF signal transmission
- Automotive-grade construction designed to support reliable operation under vibration and temperature variation
- A housing structure compatible with $\varnothing 3.0$ coaxial cable, supporting secure and consistent cable termination
- Straight and right-angle configurations support flexible PCB layout and routing



Mating Variations

(Wire to Board)

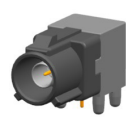
1pos.

Straight



KMA01-1P-V/B

Right Angle



KMA01-1P-DS/B

Straight



KMA01-1S-HA/B

Right Angle



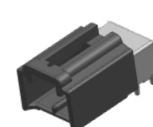
KMA01A-1S-HA/B

Compatible between
Straight ↔ Right Angle

Under
Developing

2pos.

Right Angle
(Single Row)



KMA01-2P-4.5DS/GR

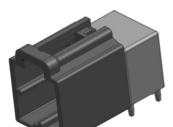
Straight



KMA01-2S-4.5HA/GR

4pos.

Right Angle
(Double Row)



KMA01-4DP-4.5DS/B

Straight



KMA01-4DS-4.5HA/B

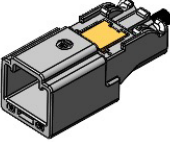
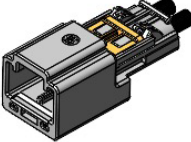
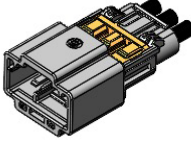
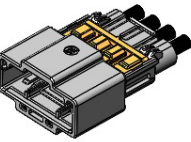
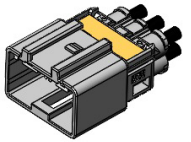
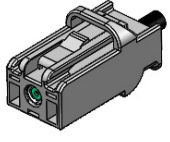
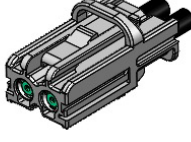
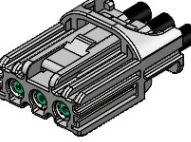
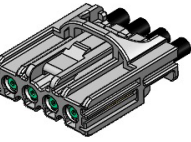
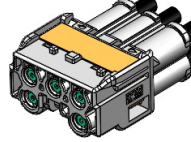
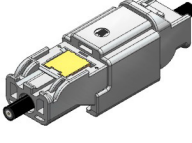
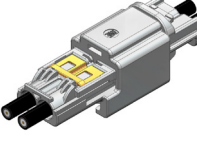
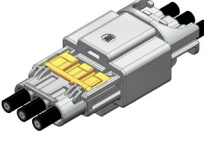
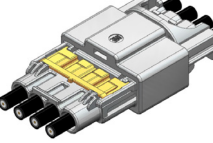
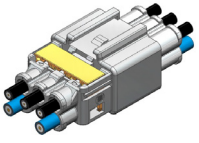
CLICK HERE
FOR MORE INFORMATION

SAMPLE REQUEST
info.hirose.com/request-sample

Wide-Ranging Options to Meet Diverse Customer Needs

Mating Variations (Wire to Wire)

Multiple Configurations to Support Diverse Design Needs

	1pos.	2pos.	3pos.	4pos.	5pos.
Jack (In-line Type)	 KMA01-1P-HA(01)/GR	 KMA01-2P-4.5HA/GR	 KMA01-3P-4.5HA/GR	 KMA01-4P-4.5HA/GR	 KMA01-5DP-5.5HA/GR
Plug	 KMA01-1S-HA(01)/GR	 KMA01-2S-4.5HA/GR	 KMA01-3S-4.5HA/GR	 KMA01-4S-4.5HA/GR	 KMA01-5DS-5.5HA/GR
Mated					

Specifications

Material/Finish

Component		Material	Finish, Remarks
Receptacle	Housing	PA	UL94V-0 / Black, Gray
	Contact	Brass	Contact : Gold Plated Over Nickel Under Plating Lead : Tin Plated Over Nickel Under Plating
	Insulator	PA	UL94V-0 / Black
	External Contact	Brass	Tin Plating
	Shell	ZnDC2	Tin Plated Over Nickel Under Plating
	Shield	ZnDC2	Tin Plated Over Nickel Under Plating
Plug & Jack (In-line Type)	Housing	PBT	UL94V-0 / Black, Gray
	TPA	PBT	UL94V-0 / Orange
	Contact	Copper Alloy	Contact : Gold Plated Over Nickel Under Plating Others : Tin Plated Over Nickel Under Plating
	Sleeve	Brass	Tin Plating
	Shell Assy'	Shell	UL94V-0 / Tin Plating
		Insulator	PBT
			UL94V-0 / Gray

Performance Characteristics

Impedance	50Ω±5Ω	Contact Resistance	Initial: 50mΩ Max. / After test: 100mΩ Max.
V.S.W.R.	1.5 Max. (0 to 6GHz)	Withstanding Voltage	500V AC for 1 minute
Rated Current	1A	Insulation Resistance	100MΩ Min. (500V DC)
Operating Temperature	-40 to +105 °C	Mating Durability	30 times

* Includes the temperature rise due to current flow.



For additional information please go to
www.hirose.com/en/product/series/KMA01
 Specifications herein are subject to change without notice.
 Contact Hirose for latest specifications, drawings, or availabilities.

STAY CONNECTED

