



6791-000 SERIES

SMT RF IDC COAXIAL CONNECTOR



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<https://datasheets.kyocera-avx.com/AVX-00-6791-IDC-Coax.pdf>

SPECIFICATIONS

- **Voltage:** 125 VAC (RMS) or DC equivalent
- **Operating Temperature:** -40°C to +125°C
- **Current:** 0.5A (cable dependent)

APPLICATIONS

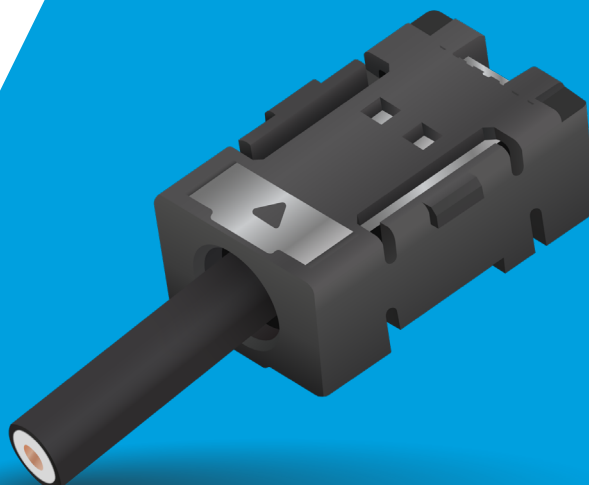
- Shark Fin Automotive Antennas
- Smart Metering Systems
- RF Security Systems
- Card Entry Access
- Industrial Automation

ADVANTAGES & TOP SELLING POINTS

- Unique, cost-effective RF connection solution not existing in the market
- IDC contact pierces the jacket & insulation of the cable, & makes direct contact with the strands & conductor of the wire at the same time
- Small package size & mechanical strength allows for use in space-critical applications such as Auto & Industrial
- Easy assembly process with ability to automate
- On-board height is less than 5mm after the cap is pressed
- Good RF performance up to 6GHz, one part can cover multiple frequency applications

PRODUCT FEATURES

- Contact tails configured to be accessible after placement
- Windows on the cap to check cable position by camera
- Identifying mark on cap to distinguish from different versions





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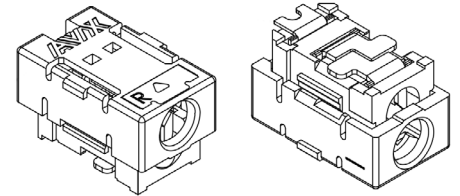
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HOW TO ORDER

00	6791	001	00X	005
Prefix	Series	No. of Ways 001 = 1	Cable Size*	Plating
			001 = 50Ω: Outer Jacket 2.33mm-2.60mm 002 = 75Ω: Outer Jacket 2.70mm-3.10mm 003 = 50Ω: Outer Jacket 2.70mm-3.10mm	

*See comparison of cable dimensions in chart

Component	Diameter (mm)					
	-001		-002		-003	
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit
Conductor	0.43	0.54	0.27	0.33	0.46	0.57
Dielectric	1.44	1.68	1.45	1.70	1.45	1.70
Braid Shield	1.84	2.08	1.85	2.10	1.85	2.10
Jacket	2.33	2.60	2.70	3.10	2.70	3.10



FAQs

Q: Can I use this on Bluetooth and WiFi protocols?

A: Yes, depending on the system frequency but most will operate below 6GHz.

Q: Do I have to place this manually on the PCB?

A: No, the part is supplied in tape and reel and can be positioned by a pick & place machine.

Q: Do I need a strain relief to guard against the cable pulling out?

A: That will depend on the forces to which the connector will be subjected. The 6791 Series can withstand 70Nm in the horizontal plane & 20Nm in the vertical.



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