00-6791





Designed to simplify the connection process, the new 6791 series wire to board connectors for coaxial cables enable simple termination with Expanded the proven-reliable IDC (Insulation displacement connector) from signal/power transmission to high frequency transmission field up to 6Ghz, the IDC contact pierces the jacket and insulation of the cable and makes direct contact with the strands and conductor of the wire at the same time. Comparing with direct soldering the soldering quality is no more depending on operator's skill which is hard to be unified and controlled. Hand soldering is now not preferred/allows in automotive field. Comparing with costly traditional 2-piece solution which is generally taller than 10mm, the new 6791 Series offers a cost-effective solution and the on board height in less than 5mm after the cap is pressed. Process to prepare coaxial cable with a 2-piece connector is time consuming and costly, with the launch of the new 6791 series the process is now simplified and the cost is reduced.

APPLICATIONS

- The connector comes in multiple types for different coaxial cables.
- Small package size and mechanical strength allows usage in automotive and industrial antenna applications
- Reference Application Notes 201-01-214

FEATURES AND BENEFITS

- Can replace costly traditional RF connector systems.
- Good RF performance up to 6GHz.
- Mechanically strong with peel off force up to 70N
- Easy assembly process with ability to automate.

ELECTRICAL

• Current Rating: 0.5 Amps (Current limit is cable dependent)

• Voltage Rating: 125Vac

ENVIRONMENTAL

• Operating Temperature: -40°C to +105°C

MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94V-0
- Contact Material: Copper Alloy
- Plating: Lead-Free Tin Over Nickel

HOW TO ORDER











Cable Size* 001 = 50Ω: Outer Jacket 2.33mm-2.60mm 003 = 50Ω: Outer Jacket 2.70mm-3.10mm

See comparison of cable dimensions in below chart

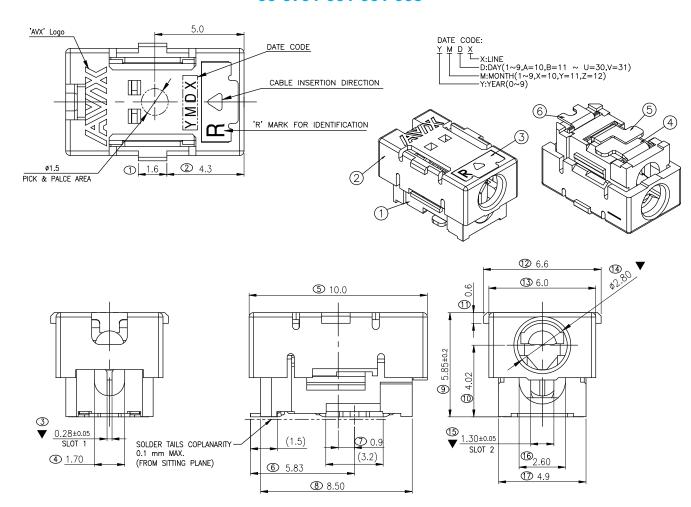
IDC COAX CABLE SIZE

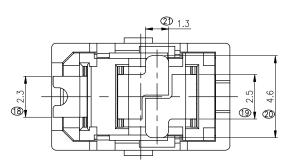
	Diameter (mm)			
Component	-001		-003	
	Lower Limit	Upper Limit	Lower Limit	Upper Limit
Conductor	0.43	0.54	0.46	0.57
Dielectric	1.44	1.68	1.45	1.70
Braid Shield	1.84	2.08	1.85	2.10
Jacket	2.33	2.60	2.70	3.10

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00 6791 001 001 005





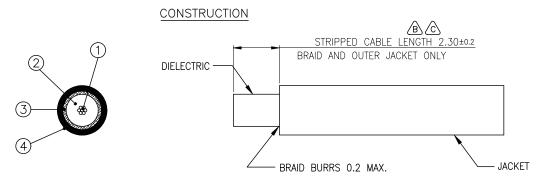
NOTES:

- 1. VOLTAGE RATING: 125V
- 2. OPERATING TEMPERATURE: -40°C TO +105°C
- 3. FOR REFLOW SOLDERING LEAD-FREE PROCESS.
 4. SOLDERING HEAT RESISTANCE REFLOW SOLDERING 260°C.
- 5. RECOMMENDED PRESSING STOP HEIGHT AS 3.75±0.05mm.

 ↑ CRITICAL DIMENSION: ▼

6	SIGNAL CONTACT	PHOSPHOR BRONZE C5191-H	Tin OVERALL, NICKEL UNDERPLATED HADRNESS: HV180~230	1	
(5)	BRAID CONTACT(2)	PHOSPHOR BRONZE C5191-H	Tin OVERALL, NICKEL UNDERPLATED HADRNESS : HV180~230	1	
4		PHOSPHOR BRONZE C5191-H	Tin OVERALL, NICKEL UNDERPLATED HADRNESS : HV180~230	1	
3	SUPPORT PLATE	SUS304-H	ULTRASONIC CLEANING HARDNESS: HV370~400	1	
2	CAP	PA-46, TS200F6	UL94HB,BLACK	1	
1	HOUSING	PA-46, TS200F6	UL94HB,BLACK	1	
ITEM	DESCRIPTION	MATERIAL	FINISH	Q'TY	NOTE

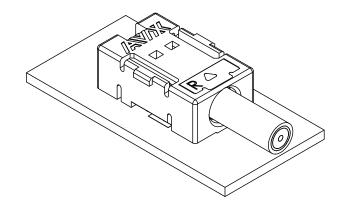


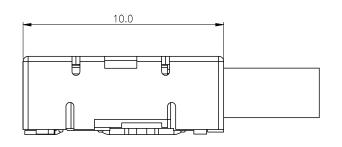


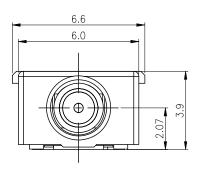
NOTE: JACKET STRIP OD DEFORMED MUST BE THAN LESS \$2.75mm AFTER CUT OFF.

APPLICABLE COAXIAL CABLE DIMENSIONS:

COMPONENT	DIAMETER (mm)		
COMPONENT	LOWER LIMIT	UPPER LIMIT	
(1) CONDUCTOR	ø0.43	ø0.54	
(2) DIELECTRIC	Ø1.44	ø1.68	
(3) BRAID SHIELD	ø1.84	ø2.08	
(4) JACKET	ø2.33	ø2.60	



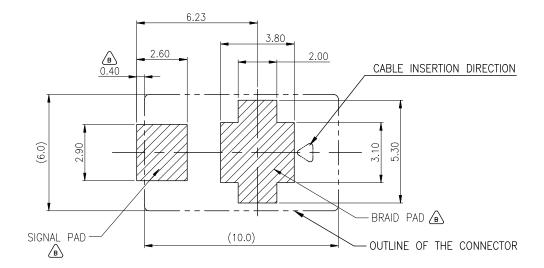




WIRED CONNECTOR

00-6791

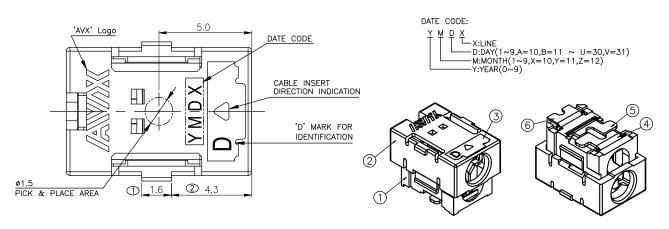


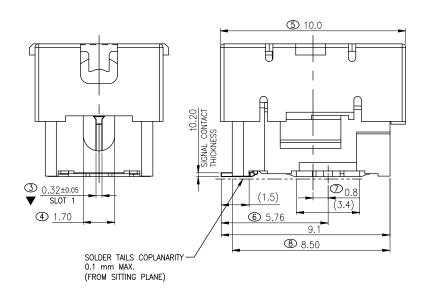


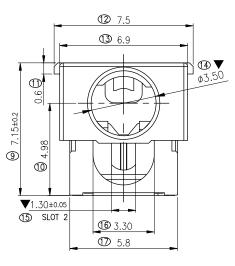
RECOMMENDED PCB LAYOUT



00 6791 001 003 005



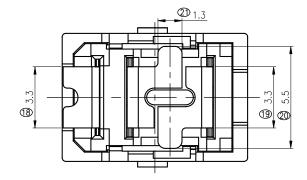




NOTES:

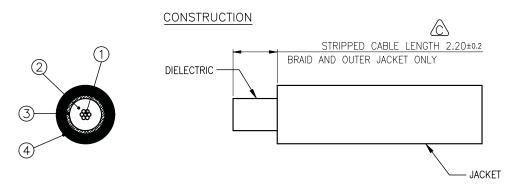
- 1. VOLTAGE RATING: 125V
- 2. OPERATING TEMPERATURE: -40°C TO +105°C
- 3. FOR REFLOW SOLDERING LEAD-FREE PROCESS.
- 4. SOLDERING HEAT RESISTANCE REFLOW SOLDERING 260°C.
- 5. RECOMMENDED PRESSING STOP HEIGHT AS 4.35 ± 0.05 mm.
- 6. ALLOW CABLE INSERT TOLERANCE.: 0.3mm MAX.7. CRITICAL DIMENSION : ▼

6	SIGNAL CONTACT	PHOSPHOR BRONZE C5191-H	Tin OVERALL, NICKEL UNDERPLATED HADRNESS: HV180~230	1	
⑤	BRAID CONTACT(2)	PHOSPHOR BRONZE C5191-H	Tin OVERALL, NICKEL UNDERPLATED HADRNESS : HV180~230	1	
4	BRAID CONTACT(1)	PHOSPHOR BRONZE C5191-H	Tin OVERALL, NICKEL UNDERPLATED HADRNESS : HV180~230	1	
3	SUPPORT PLATE	SUS304-H	ULTRASONIC CLEANING HARDNESS: HV370~400		
2	CAP	PA-46, TS200F6	UL94HB,BLACK	1	
1	HOUSING	PA-46, TS200F6	UL94HB,BLACK	1	
ITEM	DESCRIPTION	MATERIAL	FINISH	Q'TY	NOTE



00-6791

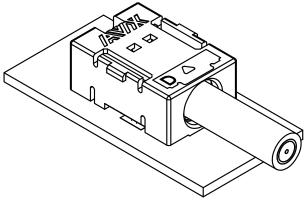


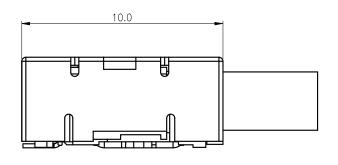


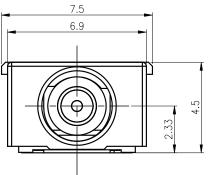
NOTE: JACKET STRIP OD DEFORMED MUST BE THAN LESS Ø3.30mm AFTER CUT OFF.

APPLICABLE COAXIAL CABLE DIMENSIONS:

COMPONENT	DIAMETER (mm)		
COMPONENT	LOWER LIMIT	UPPER LIMIT	
(1) CONDUCTOR	ø0.46	ø0.57	
(2) DIELECTRIC	ø1.45	ø1.70	
(3) BRAID SHIELD	ø1.85	ø2.10	
(4) JACKET	ø2.70	ø3.10	

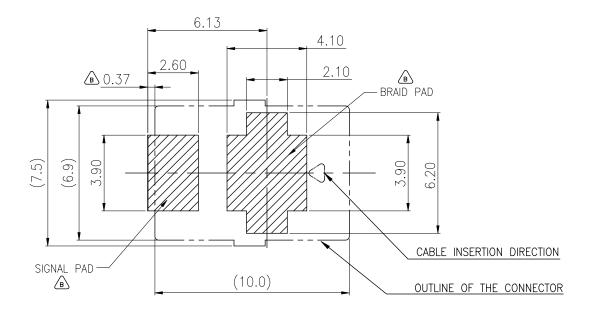






WIRED CONNECTOR





RECOMMENDED PCB LAYOUT

NOTE: TOLERANCE FOR PCB LAYOUT IS ±0.05mm

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