

6791-000 IDC COAXIAL CABLE TO BOARD CONNECTOR

201-01-214

1. SPECIFICATION DISTRIBUTION

No restrictions for issue

2. SCOPE

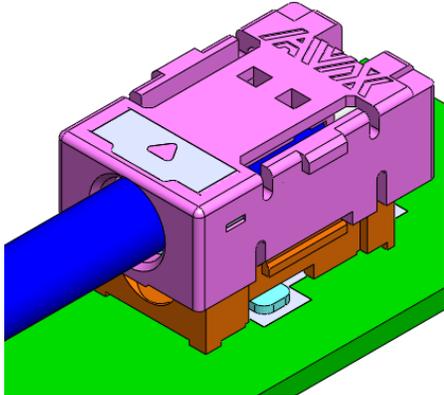
This specification contains the application notes for the 6791-000 Series IDC Coaxial Cable connector. This application note is applicable to part number 00 6791 001 001 005 & 00 6791 001 003 005 IDC coaxial cable connectors. This application note covers the product details, coaxial cable details, coaxial cable preparation, cable termination description and specifications and hand tool operation method for remove cap.

3. PRODUCTS

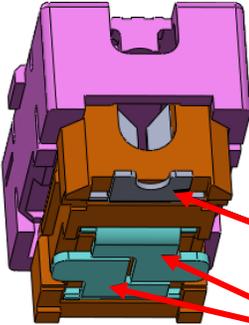
- 00-6791-001-001-006S – Sales Drawing
- 00-6791-001-003-006S – Sales Drawing
- 201-01-213 – Connector Specification

4. PRODUCT DETAILS

Example test board shown with 1x IDC coaxial cable connector surface mounted with coaxial cable (not terminated).

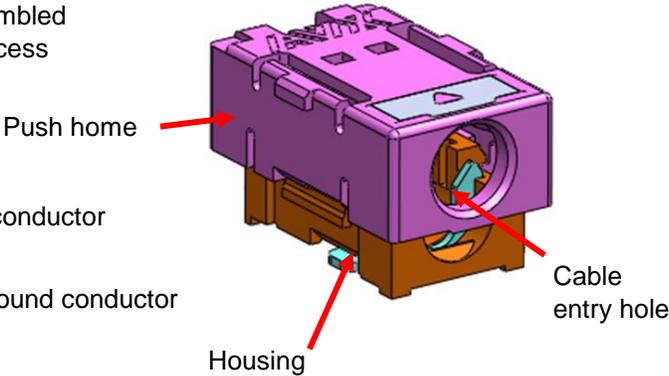


4.1. CONNECTOR CONFIGURATION

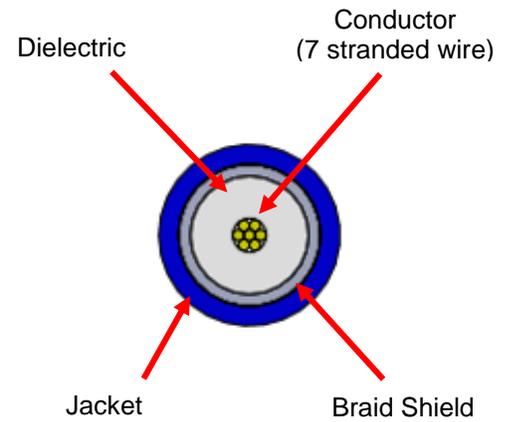
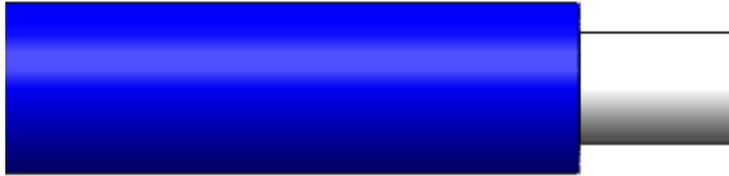


Supplied housing / cap pre-assembled as one ready for SMT reflow process

- SMT termination – center conductor
- SMT termination – braid ground conductor



4.2 COAXIAL CABLE DETAILS



Part number 00 6791 001 001 005 applicable cable dimensions:

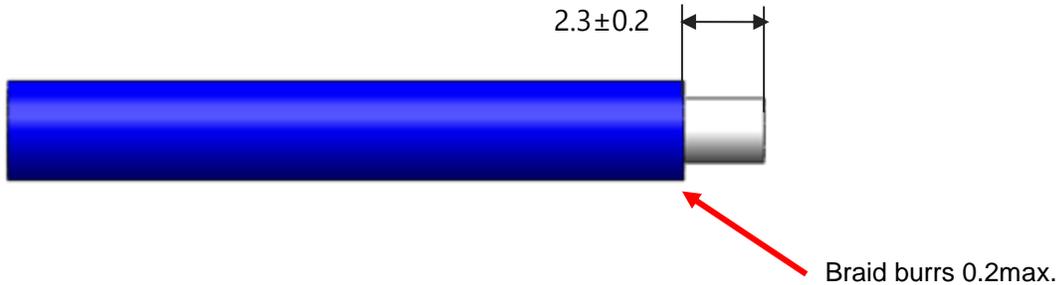
Component	Diameter (mm)	
	Lower Limit	Upper Limit
(1) Conductor	ø0.43	ø0.54
(2) Dielectric	ø1.44	ø1.68
(3) Braid Shield	ø1.84	ø2.08
(4) Jacket	ø2.33	ø2.60

Part number 00 6791 001 003 005 applicable cable dimensions:

Component	Diameter (mm)	
	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

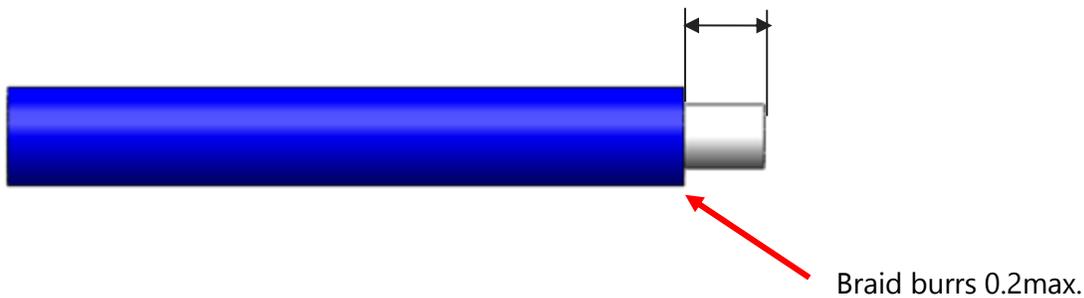
4.3 COAXIAL CABLE PREPARATION

Part number 00 6791 001 001 005 stripped cable dimensions



Cable to be stripped to dimensions above, outer insulation and braid only to be stripped.
 Jacket strip OD deformed must be than less $\text{Ø}2.75\text{mm}$ after cut off.
 All loose material must be removed before cable inserted into connector (no loose braid strands).

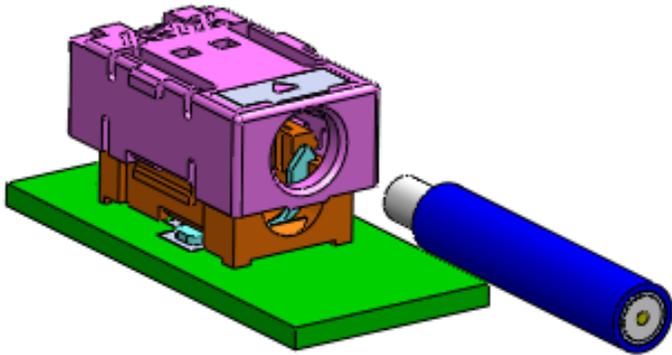
Part number 00 6791 001 003 005 stripped cable dimensions:



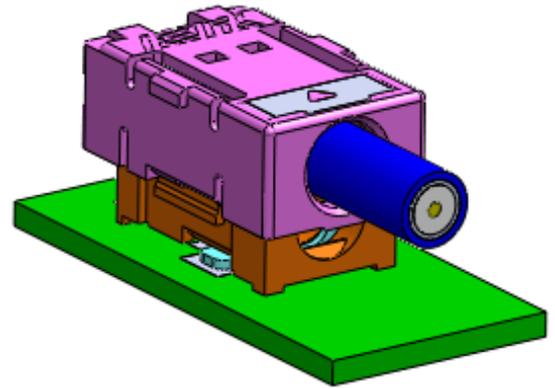
Cable to be stripped to dimensions above, outer insulation and braid only to be stripped.
 Jacket strip OD deformed must be than less $\text{Ø}3.30\text{mm}$ after cut off.
 All loose material must be removed before cable inserted into connector (no loose braid strands).

5.0 CABLE TERMINATION

5.1 INSERTION PRESS FORCE AND CONNECTOR HEIGHT



Insert cable into entry hole

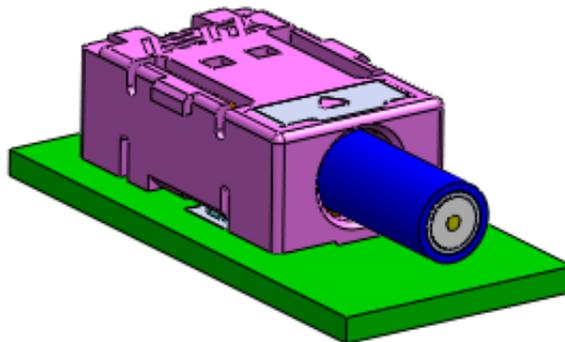


Cable pushed in against stop

F



Using flat based tooling under a hydraulic cylinder press push the connector cap down to stop



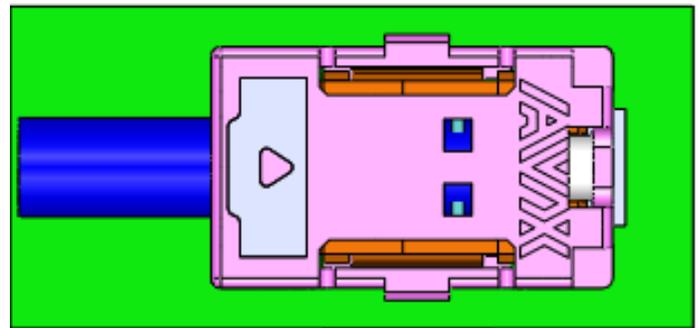
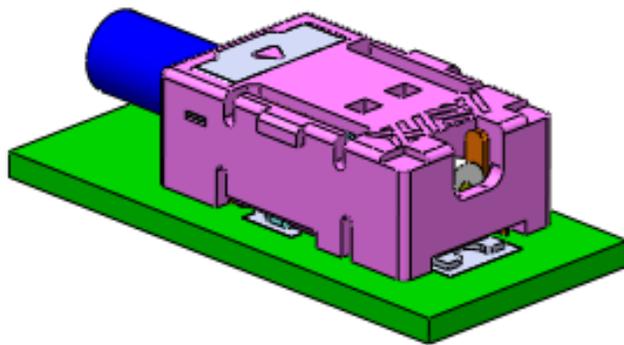
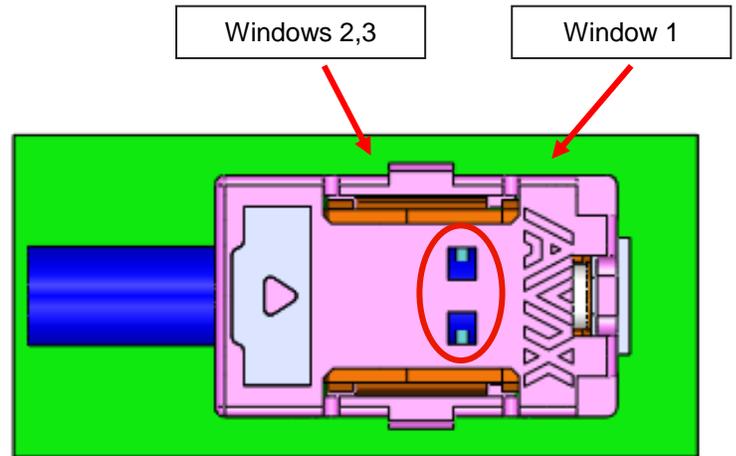
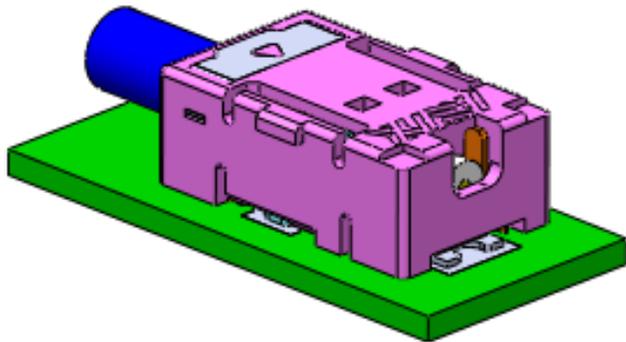
Typical Insertion press force is approximately 320N to 440N. This depends on the wire gauge, conductor strands and insulation material.

00 6791 001 001 005 connector height should be less than 4.1mm,

00 6791 001 003 005 connector height should be less than 4.7mm

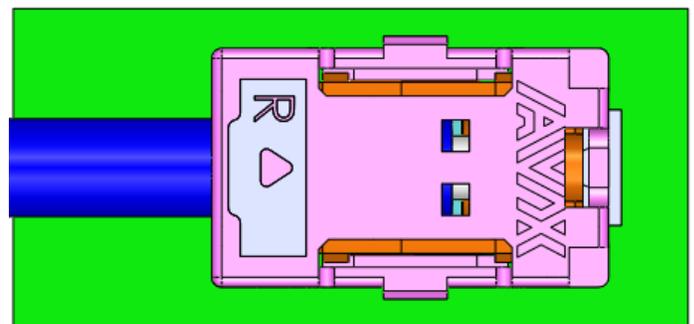
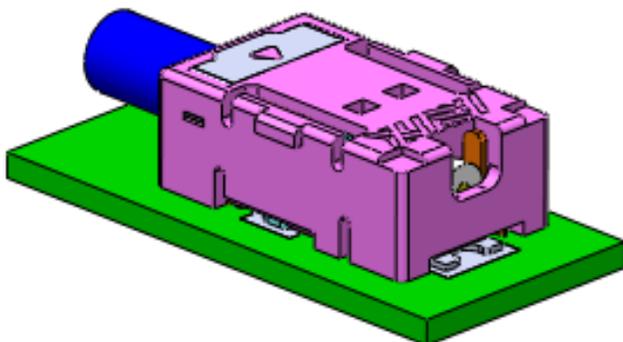
(from PCB PAD to surface of the cap)

5.2 INSPECTION



(Fig.2)

Jacket not fully visible Dielectric not visible

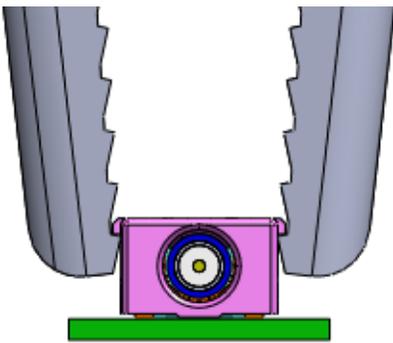
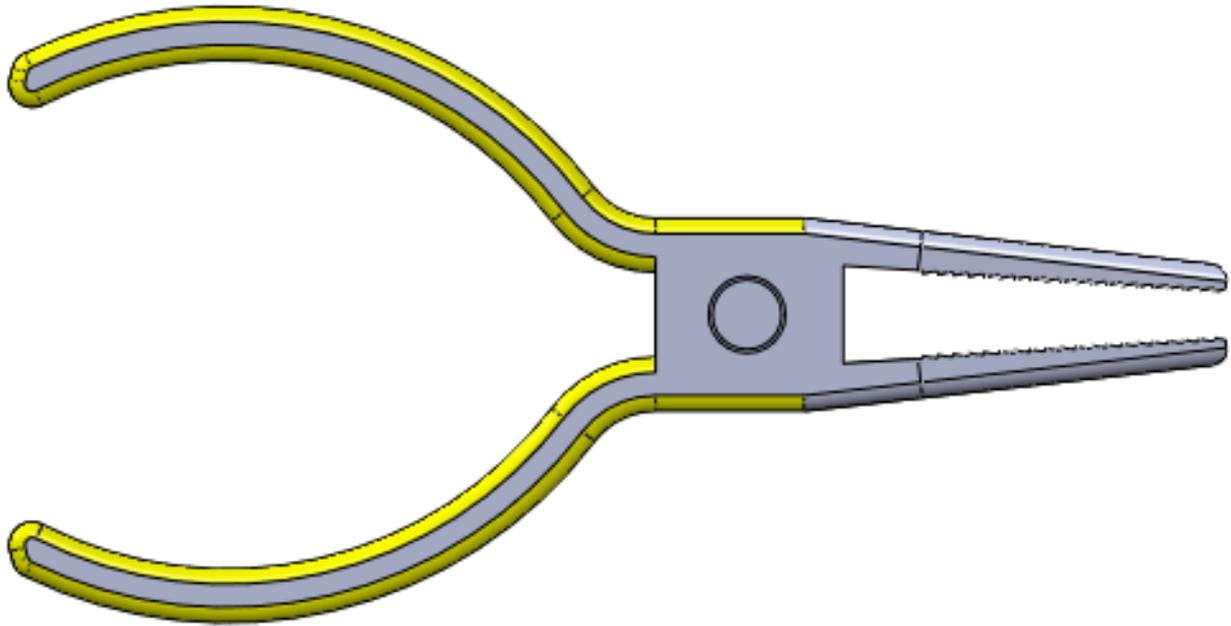


(Fig.3)

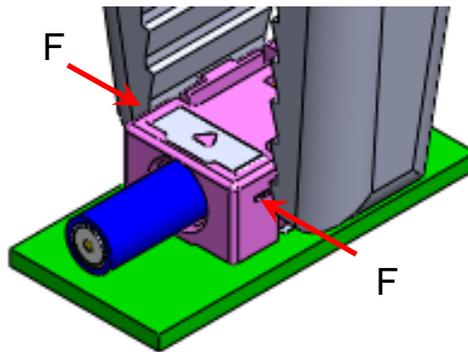
After cable insertion is completed, check that the dielectric is visible in window 1 and that the cable jacket is visible in windows 2 and 3. If they are all visible as shown in figures 1 and 2 the assembly is acceptable.

If the jacket is not fully visible or the dielectric is not visible as shown in figure 3 the assembly should be rejected.

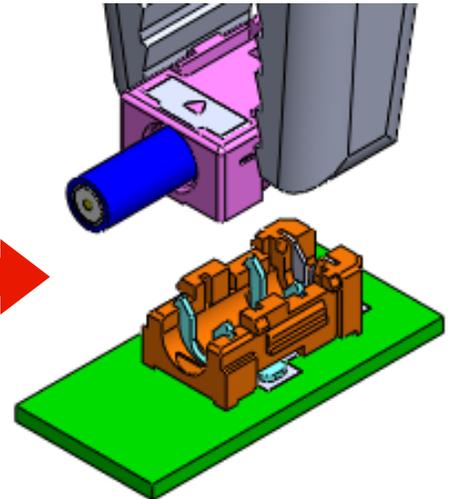
6.0 REMOVE CABLE – HAND TOOL



Using hand tool clip the flanges on both two side of cap.



Unlock the lock key for releasing cap from housing.



Remove cap and replace with a new part for new cable assembly process.