

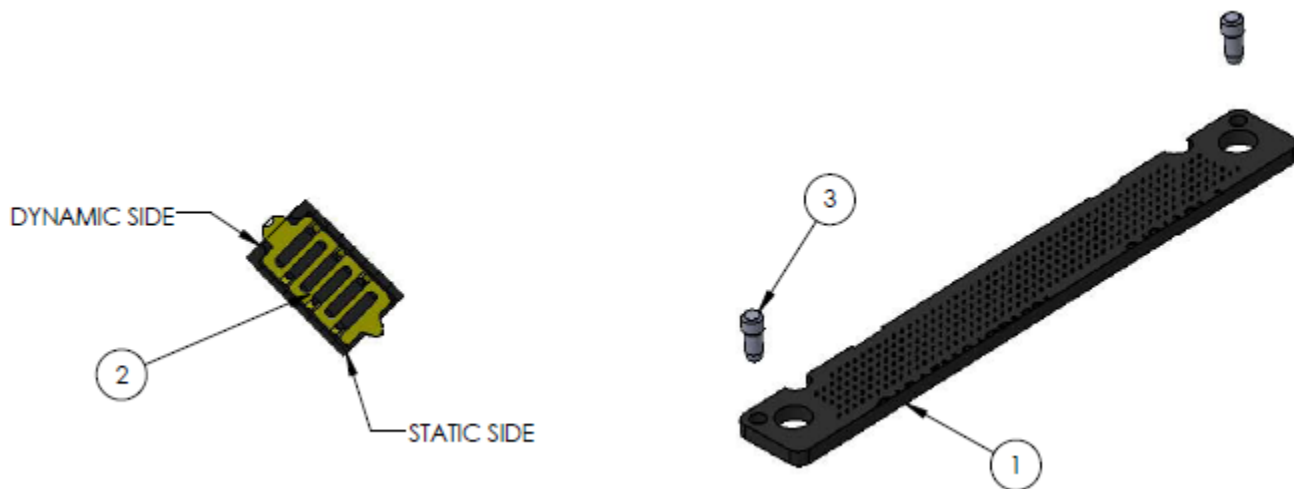


Anatomy of a CA

Purpose:

The purpose of this document is to go over the different parts of a connector and explain the purposes of each piece. By the end of this app note you should have a decent understanding of how a connector works.

The Connector Series:



Shown above is a model of an Ardent Concepts Connector labeled as follows:

1. COTS Insulator- The COTS insulator is the piece that holds all of the RC contacts within it. To make the connection there will be a PCB on both sides of the connector with the proper footprint applied so that the RC Connect-R's™ will make the proper connection.
2. RC Connect-R™ - This is the contact that is inserted into the connector and makes the connection between the two PCB's.
3. Double Ended Dowel Pins – The Double Ended Dowel Pins are used in addition to a cutout in the PCB to help locate the contacts so that they are directly over the landing pads on both of the PCBs.

[Amphenol Ardent Concepts](http://www.amphenolardentconcepts.com)

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Application Note Summary:

There are three parts that make up an Amphenol Ardent Concepts Connector, with those three parts being:

1. COTS Insulator
2. RC Connect-R™
3. Double Ended Dowel Pins

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Who is Amphenol Ardent Concepts?

Amphenol Ardent Concepts is a leading designer and manufacturer of high performance multicoax and coaxial assemblies, connectors, and sockets used in the development of next generation semiconductors and electronics systems. Our core technology is the smallest, fastest, most electrically efficient compression mount connector technology worldwide. As data rate requirements increase and devices and systems shrink, Ardent's products deliver superior signal integrity in a dense footprint that can be reusable across programs to maximize cost savings.

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