

APPLICATION NOTE

4.1-9.5 VS 4.3-10

FEMALE CONNECTORS



How to tell the difference between 4.1-9.5 and 4.3-10 female connectors

DESCRIPTION

Low PIM is a requirement in today's communications systems. In trying to achieve lower PIM rated products new connectors have been introduced into the market. First their was the 4.1-9.5 mini DIN connector. This connector provides much better PIM performance than other types of connectors, but you still had the issue of insuring the mating connector was torqued to the correct specification.

Not long after a new connector was introduced called the 4.3-10. This connector is similar in looks to the 4.1-9.5 mini DIN except that it allowed for options for mating, You have a screw on type (hand torqued) a more robust version that can be torqued as well as a snap-on version that needed no torque. Please note that the thread pattern is different and using the mate from one on the other will result in a **BAD** connection.

Below we explore the differences and visually show the difference between a 4.1-9.5 and a 4.3-10 female connector. By looking at the connector, you can easily tell which one the connector is.

4.1-9.5 Female



Small channel at the end of the connector

No Ring around center pin

4.3-10 Female



Larger channel at the end of the connector

Ring around center pin for more secure connection