

2.4mm Connector

Precision and performance at 50 GHz

Radiall's 2.4mm precision connector line includes both male and female connectors compatible with 2.4mm rigid coaxial airline cables.



Radiall's 2.4mm connectors are 50 Ohms precision connectors and are designed to operate at extremely high microwave frequencies up to 50 GHz. The outer conductor measures 3.4mm and the design makes the connector more robust than traditional SMA and 2.9mm connectors. This design increases the outer wall thickness and strengthens the female fingers. The thicker wall of the connector body is designed to engage prior to the center conductor creating a more ruggedized and repeatable mating interface. The interface is air dielectric with the contact supported by a short dielectric bead.

Although the 2.4mm precision connector looks similar to the SMA and 3.5mm connectors, they are not compatible. However, they can be mated with SMA, 3.5mm and 2.9mm with the use of precision adapters.



2.4mm precision connectors are ideal interfaces to meet the stringent demands in today's communications including satellite, test & measurement, and radar.

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Radiall offers 2.4mm precision connectors for semi-rigid and low-loss flexible cable, receptacles and precision adapters.

Cable connectors (for SR .085, SR.085 microporous and SHF2.4M):

- Straight Plug
- Straight Jack
- Straight bulkhead Jack

Connectors:

- Straight Female flange (2 holes or 4 holes)
- Straight Male flange (4 holes)
- Straight Female thread in (sparkplug)

Adapters:

- Female / Female
- Male / Male
- Male / Female
- Male / Female Right Angle

Terminations:

- 0.5 W Male
- 0.5 W Female

Features & Benefits

- Excellent performance up to 50 GHz
- Low VSWR and Insertion Loss
- Rugged construction for reliability
- Mechanically compatible with 1.85mm connector series