



## Application Note

#103 – April 2016

### TR Multicoax Series Interface Removal & Replacement

**Purpose:** This application note provides detailed instructions to remove the TR Multicoax interface for inspection and replacement

#### INTERFACE REMOVAL and REPLACEMENT

CAUTION: Handle the interface carefully. Avoid contact with the fragile interface springs.

- To remove the interface, carefully remove the two M1, 3mm screws. Carefully set in a controlled area with the milled channel side facing down (See Figures 12-15).



Figure 12: Removing the M1 Screws

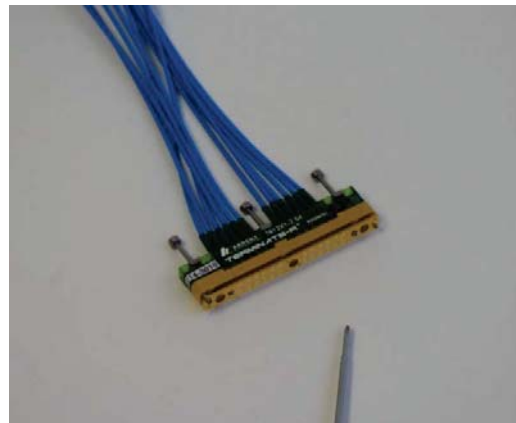


Figure 13: Sliding the Interface Off

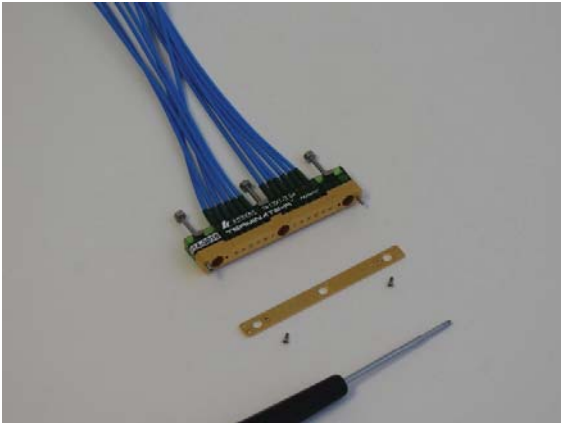


Figure 14: The Interface Removed



Figure 15: The Interface Resting with the Milled Channel Facing the Surface

- To install the interface, align the interface with the dowels and insert it onto the dowels carefully with the channeled surface contacts facing outward.
- CAUTION: Interface may bind slightly on dowels. Care should be taken not to separate the interface plates from each other.

## REPLACING M2 CAPTIVE HEX SCREWS

- To replace the M2 Captive Screws from the TR Assembly verify that the screws are not engaged by unscrewing them until they are free to slide.
- Fully extend an M2 screw by applying an outward pull force.
- While applying the outward pull force rotate the M2 screw by hand counter clockwise to engage the threaded part of the screw with the captivating threads in the strain relief.
- Once the M2 screw thread is engaged with the strain relief, it can be backed out completely and replaced by turning it counter clockwise further.
- Once the M2 is removed, screw a replacement into the strain relief.

## Application Note Summary

- To remove the interface, remove the two M1, 3mm screws .
- Place interface milled channel side facing down.
- To install the interface, align the interface with the dowels and insert it onto the dowels carefully with the channeled surface contacts facing outward .
- Don't separate interface plates.
- M2 screws are captive

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## Who is Ardent Concepts

Ardent Concepts, Inc. is a leading designer and manufacturer of high performance multicoax, probes, connectors, 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. It is used to connect: integrated circuits and printed circuit boards to instrumentation and to each other offering superior signal integrity in a high speed environment. Markets for our products include: Semiconductor, Test & Measurement, Military/Aerospace, Communications and Medical.

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