

## Application Note

#102 – April 2016

### TR Multicoax Series Care & Maintenance

**Purpose:** This application note provides detailed instructions to ensure maximum life from your TR Series multicoax connectors.

#### STORING TR MULTICOAX SERIES

The Shipping Cover should be placed on the TR Assembly for storage just like the TR Assembly was received. The Shipping Cover will protect the contacts and should be mounted between the interface and the Stiffener Block (Please see Figures 1 and 2).

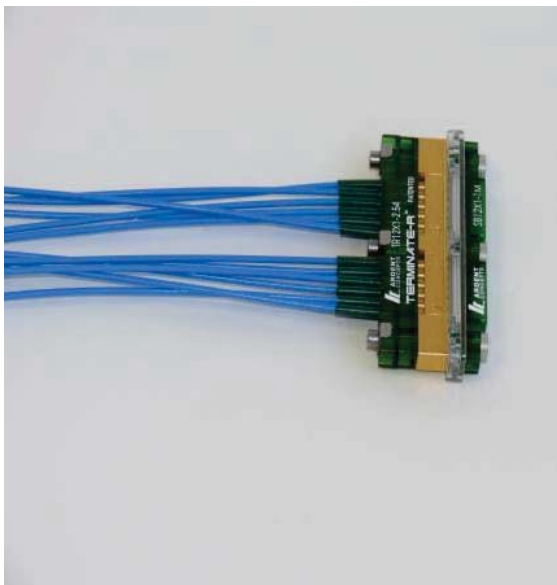


Figure 1: TR Assembly



Figure 2: Protective Bottom Cover and Stiffener Block Removed from the TR Assembly

## COAX CABLE CONNECTOR INSPECTION

Carefully inspect the center of the coax connector and discontinue use immediately if the following is noted:

- Bent or Non-Concentric Coax Center Conductor Fingers
- Bent or Non-Concentric Center Conductor Plug
- Scratches on the Center Conductor

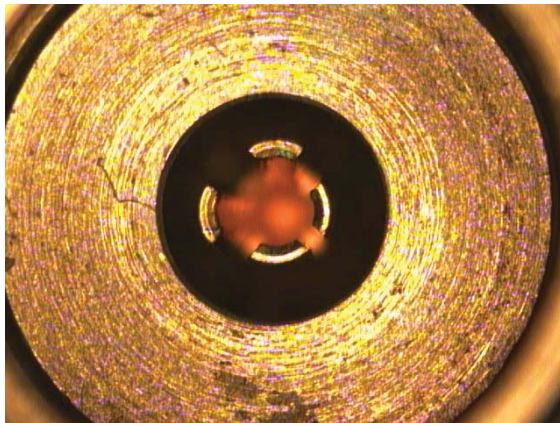


Figure 16: Magnified View of a Damaged Coax Connector

Inspect the center conductor for contamination and perform a precision cleaning procedure if the following is noted:

- Dust, Substances, and Metal Particles On and Surrounding and the Center Conductor

## PRECISION CLEANING PROCEDURE

If necessary carefully use uncontaminated thin electronic foam tipped cleaning swabs to wipe the center conductor. Do not make contact with outer coupling nut/ threads.

CAUTION: An alternative solution to remove dust is to use a filtered compressed air can.

CAUTION: Do not apply large bursts of air pressure to avoid a static charge build up on the center conductor.

## USE EXPECTANCY DURATION

The TR interface is rated for 1000 (mate and de-mate) cycles to the PCB.

NOTE: The TR interface is field replaceable.

## Application Note Summary

- Store TR with shipping cover on.
- Check for contaminants inside the connector and damage to the center conductor.
- If necessary carefully use uncontaminated thin electronic foam tipped cleaning swabs to wipe the center conductor.
- TR can also be cleaned with short bursts of compressed air.
- The TR interface is rated for 1000 (mate and de-mate) cycles to the PCB.

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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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