

MOHR™ Differential Test Set Adapter - TRB

Analyze twisted pair differential signal cables, wiring harnesses and test sets, including MIL-STD-1553B and CANBUS systems.



MOHR CT100-DA-TRB Differential Test Set Adapter

The MOHR CT100-DA-TRB Differential Adapter allows for low-loss differential TDR measurements of installed 1553 systems by connecting directly to the TRB-terminated cabling standard on many buses and/or stubs of installed systems.

MOHR's Differential TDR signal adapters redefine the limits of single-ended TDR's by creating a high-resolution differential TDR signal that matches the systems under test. The MOHR CT100-DA-TRB allows accurate, high-resolution cable impedance measurements in multi-conductor systems such as sensor networks, data bus harnesses, network and communications cables.

The CT100-DA-TRB ensures maximum signal integrity by connecting directly to the vehicle or system under test without the need for adapter harnesses or test sets.

Specifications	
Insertion Loss	<1dB across operating range
Test Connector	TRB (other types available)
Extension Cable	RG316 36" Coaxial BNCm to MMCXf
Dimensions	4.25L x 2.25W x 1.1H inches (10.8 x 5.7 x 2.7 cm)
Weight	4.0 oz (114g)
Temperature	-20C to +60C
Enclosure	Rugged Aluminum Case

MOHR™
Test and Measurement Solutions for Industry

KEY FEATURES

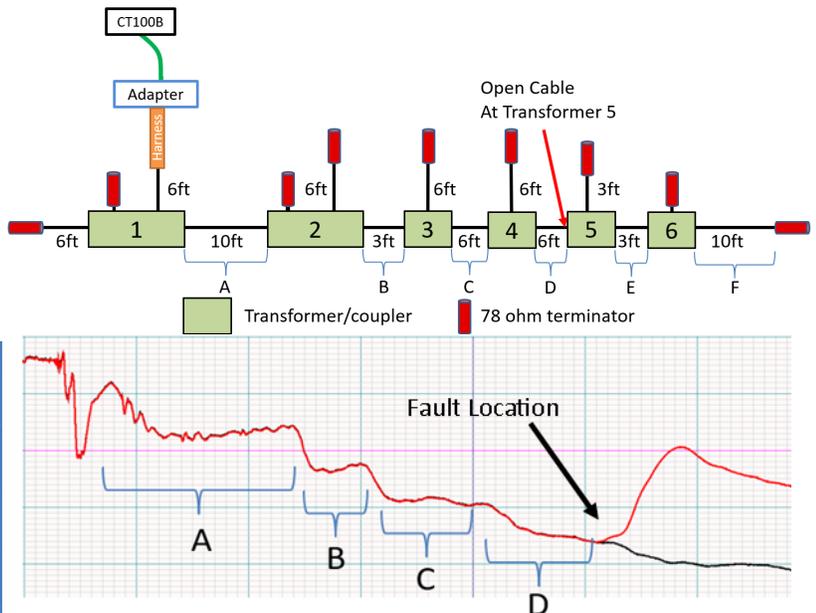
- Connects directly to twinaxial and triaxial cabling
- Differential characterization of cable assemblies
- Fault Detection from stub end of MIL-STD-1553B Buses
- Through-transformer measurement of MIL-STD-1553B Databus
- Measurement range independent of number of transformers
- Rapid analysis of compression damage and soft faults
- Small, lightweight and rugged
- Passive device, no additional power required

Example Application:

Measurement of a Main Bus fault from a Terminal Stub through multiple transformer couplings

A typical use scenario for the MOHR Differential Test Set Adapter is the characterization and detection of cable faults on a MIL-STD-1553B Data Bus. The CT100B can be attached through a stub on transformer 1. Each transformer is fully populated.

Figure 2 displays two TDR waveforms of the system. The black waveform is the baseline. The Red waveform displays an open fault detected at Transformer 5. Signal integrity is preserved through multiple transformers allowing accurate distance to fault measurements on both the MIL-STD-1553B and impedance profiling of stubs.



sales@mohrta.com
2105 Henderson Loop, Richland, WA USA 99354
ph: +1 (888) 852-0408 fx: +1 (888) 278-8037
<http://www.mohrta.com>