

MOHR™ Differential Test Set Adapter - Dual BNC

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



MOHR CT100-DA-DBNC

Differential Test Set Adapter

The Mohr Differential Test Set Adapter allows for differential TDR measurements of installed systems using existing Test Sets. When used with most 1-port devices, these Test Sets generate single-ended measurements from differential infrastructure providing inaccurate impedance measurements

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. They allow for accurate, high-resolution impedance measurements in multi-conductor systems such as sensor networks, data bus harnesses, network and communications cables.

The CT100-DA-DBNC directly adapts to common test set harnesses found in standard military and civilian test set adapter kits.

Specifications

Insertion Loss	<1dB across operating range
Test Connector	Dual BNC (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

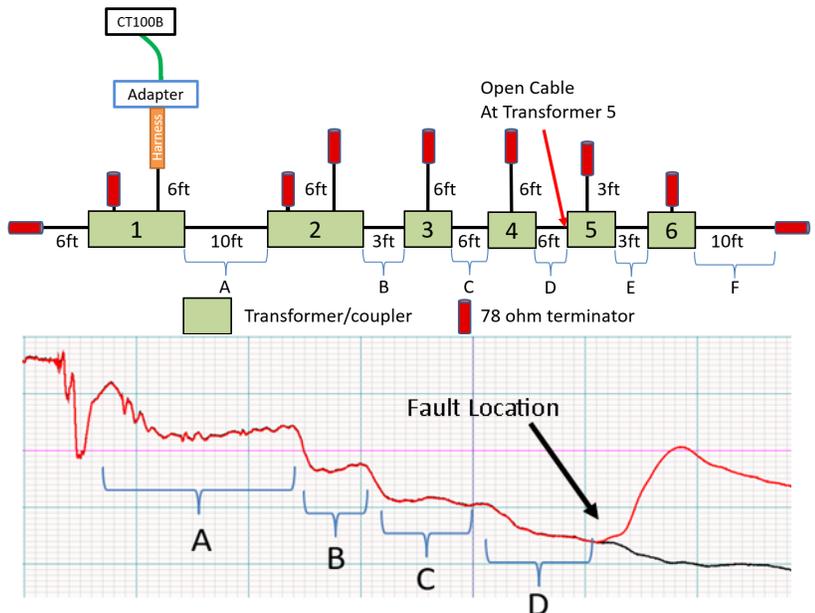
- Adapts to Military and Commercial Vehicle Test Harnesses
- Differential characterization of cable assemblies
- Fault Detection from stub end of MIL-STD-1553B Buses
- Through-transformer measurement of MIL-STD-1553B Databus
- Measurement range independent of number of transformers
- Rapid analysis of 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 to either the Bus or a Stub. Figure 1 shows a six transformer section of a data bus. The CT100B is 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.



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