



TD2400-HF

Testing of Automotive Ethernet cables according to OPEN Alliance TC2/TC9 specification

Twisted pair Ethernet cables are increasingly being used in vehicles to transmit high-frequency signals.

The TD2400-HF offers the ability to sample these cables in the production environment with a complete, easy to use test system.

The adaptronic control software NT Control guides the operator through the necessary tasks, performs the test automatically and reports the result.

A measuring laboratory is therefore no longer necessary. The test setup is more comprehensible for OEMs.

With the fully integrated Keysight network analyzer E5071C with 4 ports and a measuring range up to 20 GHz and its calibration equipment as well as adapter boards, a high-precision measuring instrument with the following additional features is available:

- Adaption to cable length
- Automatic recognition of recalibration
- Suitable for measurements according to OPEN Alliance specification TC2 (100 Mbit/s) and TC9 (1 Gbit/s)

The cable routing is also carried out according to the specifications of the OPEN Alliance TC2 and TC9. The UUT-dependent routing is displayed on the monitor.

TD2400-HF

NT Control software for

- Test program management
- Supporting the routing process of the UUT by displaying the laying path
- Controlling the network analyzer
- Checking and calibration the test setup

Other equipment (optional):

- Scanner
- Label printer
- Reporting

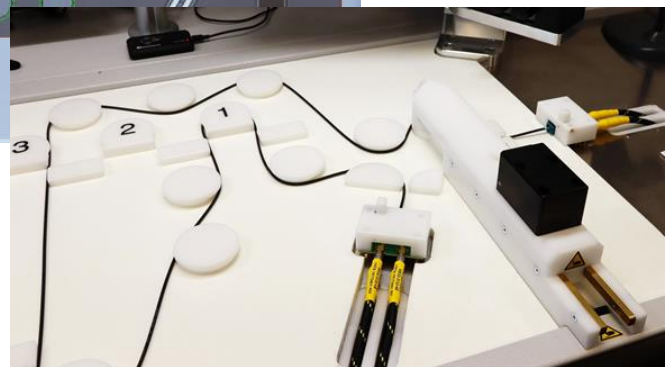
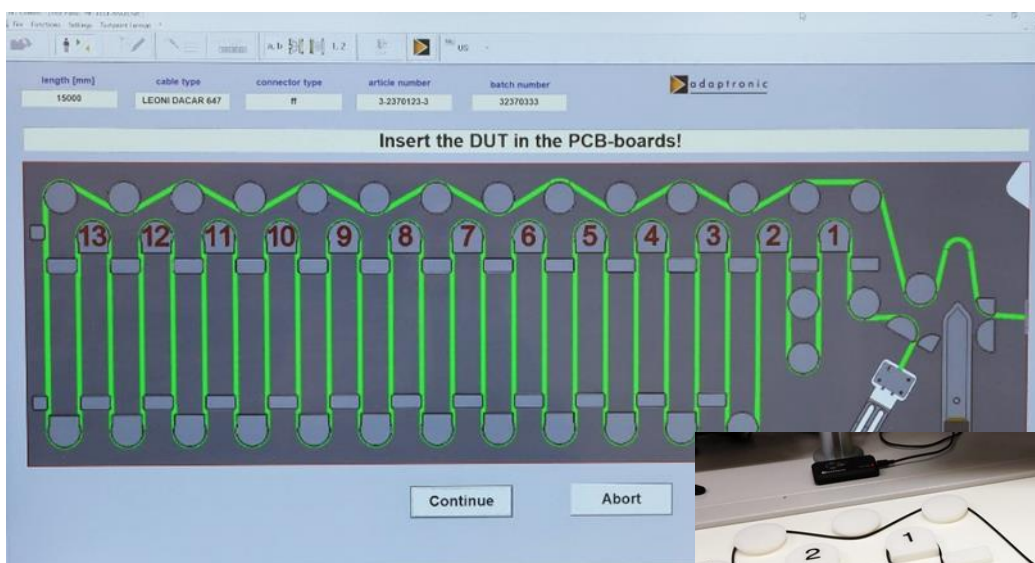
Main components:

- Test table with insulated laying surface and laying aids designed according to specification TC2/TC9
- Network analyzer Keysight E5071C with accessories



(Sample image, Keysight)

- PC with adaptronic control software NT Control



Display of the laying path for the longest test specimen in NT Control and execution example on the test table

Technical Data TD2400-HF	
UUT length	0.5 – 15 m
Connector	MATEnet (TE), other on request
Specification of testing types	According to OPEN Alliance TC2 / TC9
Checking of test setup / Calibration	Fixture-Test before every test Calibration-Test with following Thru-Test to check the calibration
Power supply	230 VAC, 50 Hz
Dimension test table (W x H x D, approx.)	2470 mm x 1110 mm x 1090 mm (without illumination)
Scope of delivery	TD2400-HF with network analyzer, control PC, USB flash drive with documentation in PDF-format