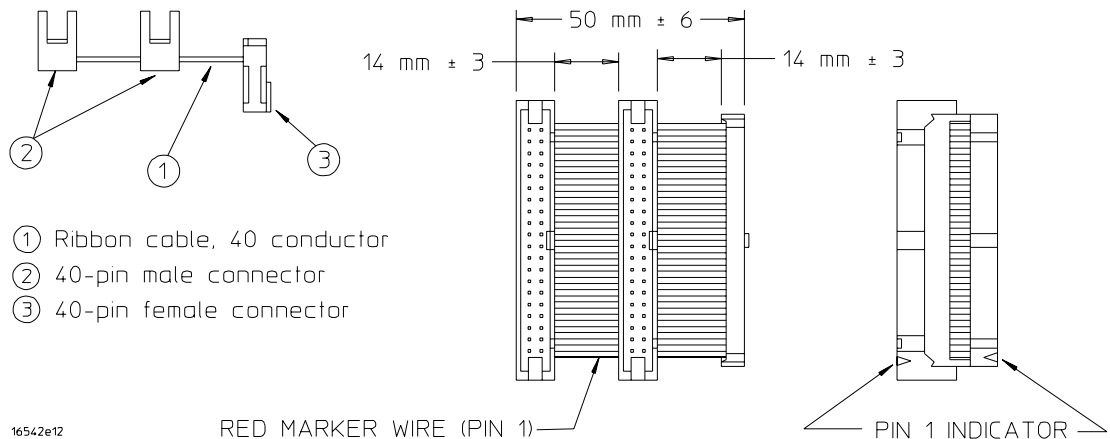

Agilent Technologies 16542-61607 Double Probe Adapter

Overview

The double probing connector provides dual analysis of data acquired from a single pin. Two logic analyzer pods connect to a space previously limited to 1 pod connection. This connector may be used to acquire state and timing information simultaneously on a single logic analyzer with the appropriate channel count.

The figure below shows the parts and dimensions of the double probe adapter.



16542e12

How to connect

Plug a logic analyzer woven cable into either of the 40-pin male connectors. Plug a second logic analyzer woven cable into the other 40-pin male connector. The female connector can be

connected to the device under test using one of the following:

Description	Agilent Part Number
Probe Tip Assembly	01650-61608
Isolation Adapter, 100 K Ω	01650-63203

Setting the analyzer threshold

The cable splits the signal into two paths, therefore the user must adjust the logic analyzer's threshold to one-half of what is actually being probed. This is done in the format menu. If the device being probed has a TTL threshold of 1.6 volts, the logic analyzer's threshold should be set at 0.8 volts when using the double probe adapter. The dual probe adapter will work with all signals which have a peak-to-peak voltage of at least double the specification for the logic analyzer's minimum peak-to-peak voltage swing. A digital signal with peak-to-peak voltage swing of 1.0 volts or greater will ensure that the adapter works with 1660 Series and 16500 Series analyzers. The double probe adapter is not recommended for ECL probing due to the low voltage swing of ECL circuitry,.

Loading

A point probed with the adapter sees a loading of approximately 95 K Ω in parallel with 8.2 pF. This loading is nearly identical to the impedance of a single probe.

Agilent Technologies
Printed in U.S.A.

Part number 16542-92000

