

Part Number: USC-ITA-CUSTOM

Part Description:

Interface Test Adapters (ITA) are designed and manufactured by Universal Synaptics to allow any Unit Under Test (UUT) to be tested with the Intermittent Fault Detector™ (IFD™). UUT examples include Electronic Wiring Interconnect Systems (EWIS), wiring harnesses, or components such as aircraft Line Replaceable Units (LRU) / Weapon Replaceable Assemblies (WRA). The primary purpose of an ITA is to electrically connect the test points of the IFD to each electrical contact of the UUT, allowing the IFD AutoMap™ to discover the as-wired configuration of any version of the unit with the same connections, validate expected wiring, check for unexpected connections, and then monitor the UUT for intermittent events during the testing period.

The ITA manufacturing process allows for easy management of the ITA for use and storage. The IFD interface test adapter and UUT connections will be clearly labeled for proper connection to the IFD and the UUT, respectively.

Deliverables include the physical ITA, data package, Fault Isolation Graphic, User Guide, and Maintenance Parts List. In addition, ITA configuration information will be added to the customer's IFD as part of the delivery.



Part Specifications:

IFD Interface Options	<input type="checkbox"/> 50 Pin D-Sub (Portable IFD) <input type="checkbox"/> Virginia Panel G10 (Intermittent Fault Detection and Isolation System (IFDIS))
Adapter Options	<input type="checkbox"/> Custom design for SRU/SRA interfaces to duplicate SRU/SRA in fit and form <input type="checkbox"/> Available commercial connectors <input type="checkbox"/> Available Mil-Spec connectors <input type="checkbox"/> Any combination of the above <input type="checkbox"/> Other per application requirements
Wiring Specification	<input type="checkbox"/> Minimum 28 AWG stranded wire <input type="checkbox"/> Shielded cable bundles (optional based on testing environment) <input type="checkbox"/> Other per application requirements
Size and Weight	<input type="checkbox"/> 12 to 16 feet for IFDIS <input type="checkbox"/> 6 to 20 feet for Portable IFD <input type="checkbox"/> Less than 30 lbs. per section <input type="checkbox"/> Custom packaging available <input type="checkbox"/> Other per application requirements
Environmental Spec.	<input type="checkbox"/> -40 to 70 degrees Celsius for environmental chamber use <input type="checkbox"/> 2 to 50 degrees Celsius for standard use <input type="checkbox"/> 5 to 90% humidity non-condensing <input type="checkbox"/> Other per application requirements
Unit Fixture	<input type="checkbox"/> Custom per application requirements