

Introduction

This DTI (Device Test Interface) is designed to probe the leads of an IC simultaneously. It's terminated with four 2mm Banana Plugs and the DTI makes temporary electrical contact with the leads of the device, in a two step action as follows:

- The DTI is positioned over the device to be tested (lining it up squarely with the body of the device and the leads).
- Once the DTI is positioned on the device, by pushing the handle further, the microprobes will make electrical contact with the leads of the device.

NOTE: ALL Conformal Coating must be removed before using this DTI otherwise damage may occur to the DTI or device.

Features

- high contact pressure at the probe tip, for repeatable and reliable contact;
- high reliability and long life interchangeable microprobes;
- sweeping action gold plated contacts, for reliable contact and low ohmic resistance of interconnections;
- high current rating (for single channel, in ambient air with 70°F [20°C]) : 1.5A
- manufactured from impact, solvent and temperature resistant plastics, with low friction;
- wide range of operating temperatures (commercial): [0°C to +70°C]
- clear markings on the body, indicating Pin 1 of IC being tested, to prevent probing the wrong way round;
- packaged in a hard wearing, high resistance to damage Polypropylene case with foam insets, the DTI can withstand high impact in transit.
- the case can be used for safe storage when the DTI is not in use, and subsequent transport.



Specification

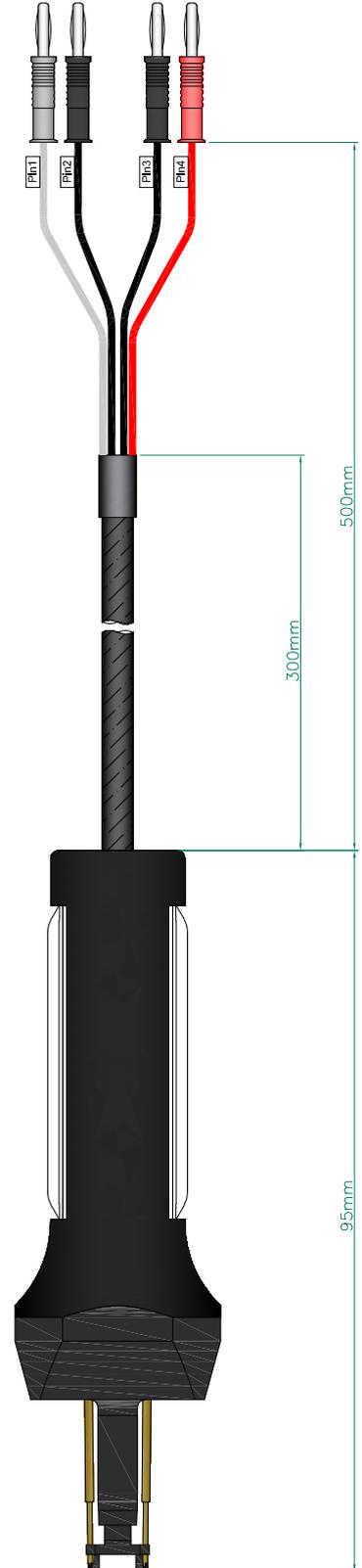
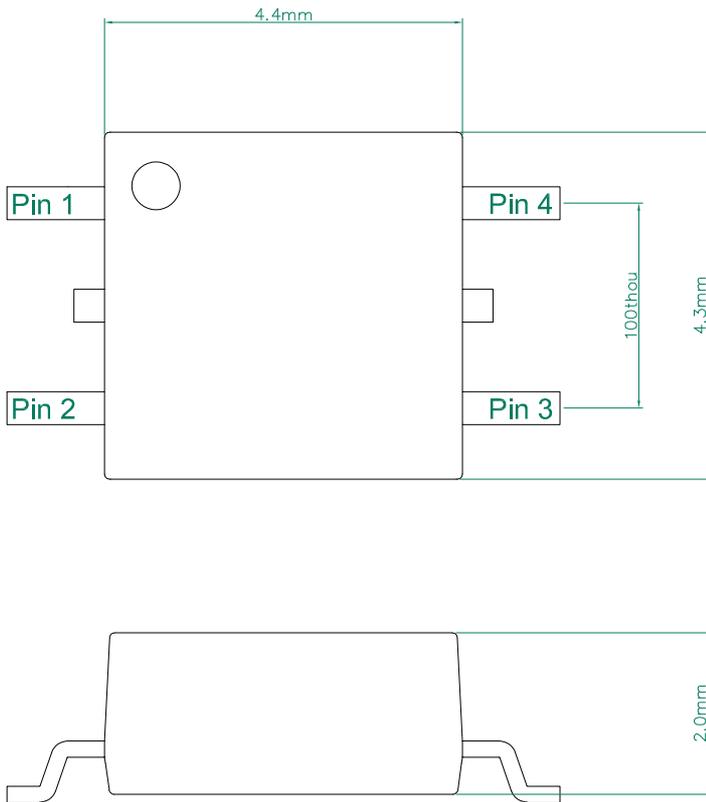
- It will accommodate a 4 Pin SOP (100 thou Pitch) LxWxH: 4.3mm x 4.4mm x 2.0mm;
- Maximum number of interconnections (channels): 4
- Current rating, with all contacts loaded (maximum continuous current, non inductive): 0.5A /channel;
- Wire Type (White/Red/Black): Stranded, Flexiplast® E, Hi Flex, TPE, 20AWG
- Contact resistance (average): 80 mΩ /channel;
- Insulation resistance: 5MΩ Min.
- Volume resistivity of plastic parts: $10^{15} \Omega\text{-cm}$ @ 50%RH.
- Fatigue life of probes: Min. 1,000,000 cycles at normal working distance;
- Working distance (normal stroke): 2.0mm;
- Microprobe force at point of contact (normal stroke): 0.3N

Connections Table

Pin tables for this clip are available electronically:

- Please contact Astronics Test Systems Sales.

IC Pin	Termination
1	White Lead / White 2mm Banana Plug
2	Black Lead / Black 2mm Banana Plug
3	Black Lead / Black 2mm Banana Plug
4	Red Lead / Red 2mm Banana Plug



Maintenance

The DTI Head is maintenance free. The microprobes are self-cleaning. Immersion in water or contact between microprobes and any liquids should be avoided, as this could severely reduce the working life of microprobes.

Contamination is the primary cause of probe contact problems. This is generally caused by flux left as a residue on circuit boards. Other probe contaminants such as dust, fluff, oil and grime can also cause problems in other areas. Light brushing of the tips of the probes with nylon, bristle or soft metal brushes will dislodge most contaminants.