

# BICOTEST T625 TDR

High Specification Cable Fault Locator



- The T625 is Bicotest's most advanced TDR cable tester. With a range of 0 to 20 kilometres- it outperforms any other TDR.
- Suitable for any type of metallic cable, including AC live in conjunction with a T600 AC blocking filter
- Superb long distance and short range faultfinding capability is achieved with a 20 V output signal, with pulse width automatically adjusted to suit the selected range.
- Accurate to 0.5 metres in short range mode.
- Dynamic range exceeds anything similar. Fault identification is crystal clear - even at the 20kilometre limit of its operating range.
- Large, uncluttered full-screen trace display for clarity.
- Eight test modes give fast fault location whether testing a single pair or comparing two pairs, one pair against any of the twelve memories, or crosstalk between two pairs.
- The T625 can measure in metres, feet or time. Dielectric can be set using propagation velocity, cable velocity or cable velocity over 2, ( $V/2$ ). Onboard cable library assists fast, efficient selection.
- Fast function configuration. Dedicated keys for Cursor, Dielectric, Range, Trace Position, Pulse Amplitude and other most frequently used functions.
- HELP facility provides explanation of controls, contains sample waveforms and allows instrument to be programmed for most common cable types, giving real help to both inexperienced and expert users.
- PC compatibility, via X600 TRACEability Software System, ensures waveforms can be analysed, stored and reloaded to the TDR for on-site, dynamic comparison of the waveforms.
- Bicotest instruments are the ultimate in durability, essential in a true field-portable instrument. Bicotest is the industry standard, proven over 50 years. Comprehensive features and functions, including the high-impact-resistant screen, are tested to destruction. Fit for purpose in any climatic condition, the T625 is supplied in a Bicotest-tough, all-weather shoulder bag.

## Specifications

RANGES :	0-24 m to 0-20 km in 11 ranges with zoom facility (except on lowest range) (PVF 0.67)
ACCURACY :	± 0.24% of range at 20 kms
RESOLUTION :	± 0.1% of range at 20 kms
PROPAGATION VELOCITY :	PVF : 0.300 to 0.999 V : 90 to 300 m/μs V/2 : 45 to 150 m/μs
GAIN :	0-84 dB max, selectable in 6dB steps Maximum sensitivity 4 mV full scale
PULSE CHARACTERISTICS :	Amplitude : Nominally 20 V into 100 Ohms Width : 24 ns to 2.25 μs selected with range Output Impedance : 100 Ohms Balance Control : 0 to 220 Ohms
OUTPUT :	Sockets : 2 pairs 4 mm Banana Protection : 300 V rms, 0-60 Hz
DISPLAY :	Type : High resolution LCD with backlighting (switchable) Cursor : Solid vertical line Marker Cursor : Dotted vertical line
MODES :	Real time : Line 1, Line 2, Line 1 and Line 2 (dual), Line 1 minus Line 2 (differential), X-Talk (locates crosstalk on telephone cables) Memory : Displays one of 12 memory locations; Line 1 and Memory (dual), Line 1 minus Memory (differential), Memory only
MEMORY :	12 locations that retain information until overwritten
INTERFACE :	RS 232C to printer or PC
POWER :	Internal Ni-Cad Batteries - 12 hours operation. (Auto Power-Off 5 mins after last key operation). Ext AC Adaptor, 120 V or 230 V available. Ext DC, 12 V to 20 V operating; 15 V to 20 V charging.
ENVIRONMENTAL :	Operating Temperature : -50C to +500C Storage : -200C to +650C Humidity : 93% at +400C
WATER INGRESS :	IP54
SAFETY :	IEC 1010
SIZE (mm) :	75 x 183 x 300 mm inc handle
WEIGHT (kg) :	2.9 kg inc battery
DELIVERY INCLUDES :	Weatherproof Shoulder Bag, 8 rechargeable NiCad cells, 2 x 2 m Test Leads, AC Adaptor, DC Plug, Operating Manual.
ORDERING DETAILS :	T625 Option A : 230 V ± 10%, UK Plug T625 Option B : 120 V ± 10%, USA Plug T625 Option C : 230 V ± 10%, Euro Plug
OPTIONAL ACCESSORIES	X600 TRACEability IBM-Windows compatible PC Interface Software, inc 3.5" disc, operating manual and cable T600FS Single AC Blocking Filter for use on live AC power cables T600FD Dual AC Blocking Filter for use on live AC power cables
WARRANTY:	2 years

## Key features

- **Widest range in a hand-portable cable fault locator - from 24 metres to 20 kilometres**
- **Easy to operate**
- **Suitable for any type of metallic cable, including live AC in conjunction with a T600 blocking filter**
- **Large, clear waveform display of full trace for accurate diagnosis**
- **All faults clearly identified - from open circuits to wet joints**
- **Zoom for detailed examination**
- **12 memories for on-site waveform storage and comparison**
- **Measures metres, feet or time**
- **Auto programming for fast configuration**
- **Full PC compatibility for in-depth fault analysis**
- **8 test modes for fast fault location**
- **Dual input enables pair comparison and crosstalk location**
- **Comprehensive training and support services**