

# Bicotest Model T625 TDR

## HIGH SPECIFICATION CABLE FAULT LOCATOR

### FEATURES/KEY BENEFITS

- The T625 is Bicotest's most advanced TDR cable tester, with a range of 0 to 20 kilometres.
- 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 20V output signal, with pulse width automatically adjusted to suit the selected range.
- Accurate to 0.5 metres in short range mode.
- Wide dynamic range enables clear fault identification, even at the 20 kilometre 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.
- Comprehensive features and functions, including the high-impact-resistant screen, are tested to destruction. Fit for purpose in most climatic conditions, the T625 is supplied in an all-weather shoulder bag.



PRODUCT SPECIFICATIONS	
<b>RANGES:</b>	0-24m to 0-20km in 11 ranges with zoom facility (except on lowest range) (PVF 0.67)
<b>ACCURACY:</b>	±0.24% of range at 20km
<b>RESOLUTION:</b>	±0.1% of range at 20kms
<b>PROPAGATION VELOCITY:</b>	
PVF:	0.300 to 0.999
V:	90 to 300m/μs
V/2:	45 to 150m/μs
<b>GAIN:</b>	0-84dB max, selectable in 6dB steps Maximum sensitivity 4mV full scale
<b>PULSE CHARACTERISTICS:</b>	
Amplitude:	Nominally 20V into 100Ω
Width:	24ns to 2.25μs selected with range
Output Impedance:	100Ω
Balance Control:	0 to 220Ω
<b>OUTPUT:</b>	
Sockets:	2 pairs 4mm Banana
Protection:	300V rms, 0-60Hz
<b>DISPLAY:</b>	
Type:	High resolution LCD with backlighting (switchable)
Cursor:	Solid vertical line
Marker Cursor:	Dotted vertical line
<b>MODES:</b>	
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
<b>MEMORY:</b>	12 locations that retain information until overwritten
<b>INTERFACE:</b>	RS 232C to printer or PC
<b>POWER:</b>	Internal NiMH Batteries - 12 hours operation. (Auto Power-Off 5 mins after last key operation). Ext AC Adaptor, 120V or 230V available. Ext DC, 12V to 20V operating; 15V to 20V charging.
<b>ENVIRONMENTAL:</b>	
Operating Temperature:	-5°C to +50°C
Storage:	-20°C to +65°C
Humidity:	93% at +40°C
<b>WATER INGRESS:</b>	IP54
<b>SAFETY:</b>	IEC 1010
<b>SIZE (mm):</b>	75 x 183 x 300mm inc handle
<b>WEIGHT (kg):</b>	2.9kg inc battery
<b>DELIVERY INCLUDES:</b>	Weatherproof Shoulder Bag, 8 rechargeable NiMH cells, 2 x 2m Test Leads, AC Adaptor, DC Plug, Operating Manual.
<b>ORDERING DETAILS:</b>	
T625 Option A:	230V ±10%, UK Plug
T625 Option B:	120V ±10%, USA Plug
T625 Option C:	230V ±10%, Euro Plug
<b>OPTIONAL ACCESSORIES:</b>	
X600 TRACEability	X600 is compliant with the 32 & 64 bit versions of Windows XP, Windows Vista, Windows 7 and Windows 8.
T600FS:	Single AC Blocking Filter for use on live AC power cables.
T600FD:	Dual AC Blocking Filter for use on live AC power cables.
<b>WARRANTY:</b>	1 year

- Very wide 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.
- Most 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.
- 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.

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