

# TESTCAT

Structured Cable Tester

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User Manual

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Issue 1.1

# SAFETY

**Read this manual completely before using the instrument.**

1. Please do not connect the TESTCAT main or remote units to cabling which is energised. They are meant for testing cables without any equipment connected.
2. There are no user serviceable parts in this unit. Under no circumstances should the user attempt to open the unit. If opened, the warranty will be invalidated.
3. Should a problem arise with the product, please return it to a recognised dealer or to:  
Crucible Technologies  
Unit 1D Northminster Business Park  
Northfield Lane Upper Poppleton  
York YO26 6QU  
Tel: 01904 792211

When returning the unit to Crucible Technologies, please contact the Repairs Department to receive a Returns Number. The owner will be advised of any costs prior to work commencing.

# INTRODUCTION

The TESTCAT structured cabling tester allows one person to test wiring and locate faults easily. This battery-powered tester is very easy to use and has clear LED indicators for faults. Three-stage testing allows checking for faults, cable mapping and cable tracing.

## Features

- Capable of Testing 568A/B cabling configuration
- Tests all four pairs for shorts, opens, reversals or miswires
- Clear unambiguous display of test progress and any failures
- All testing can be done from one end by one person
- Can test UTP and STP cable runs
- Test tone can be applied for wire tracing
- One remote supplied. Another seven available for cable mapping
- Main unit uses 9 V PP3 battery, remote is powered by main unit
- Two UTP cables supplied for connection of main and remote
- Each additional remote supplied with a UTP connection cable
- Battery low indication

# OPERATING INSTRUCTIONS

## Checking patch cables

Connect cable to TESTCAT main unit and the remote unit. Press the TEST button momentarily. If cable is correct the green Pair LEDS will rapidly flash in sequence, followed by the Screen LED, if the cable is screened. If all four pairs are correctly wired the ID of the remote will be displayed and the unit will power down. (The remote supplied with the main is always set to an ID of 1).

If any faults are detected the green LED will stay on for a second whilst the appropriate red LED will also come on to indicate the faults. If any faults are detected on the four pairs an F will be displayed.

If the TEST button is held down for more than 2 seconds the wiring test is repeated continuously for 20 minutes.

## Checking installed cables

Connect remote unit to office output. Connect main TESTCAT to patch panel outlet. The testing and results are as for testing patch cables.

## Cable mapping

A number of remotes are required for this. Up to eight are available for use with TESTCAT. Plug a number of these into the office outlets as required. Connect the TESTCAT main unit to the appropriate sockets on the patch panel and press the TEST button momentarily. The ID of the remote will be displayed allowing the pairs of the sockets to be labelled correctly.

## Tone tracing

Connect the TESTCAT main unit to the socket of the cable to be traced. Press the TONE button momentarily. The Tone LED will flash to show that a warble is being injected to the cable. A tone tracer can now be used to trace the cable and identify its other end on the patch panel. The tone will stay on for 20 minutes.

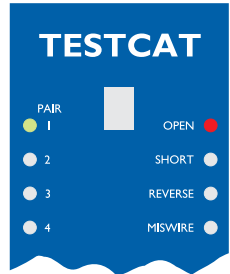
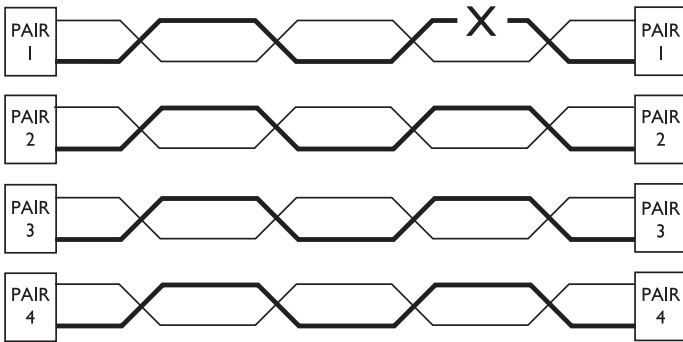
If two cables need to be traced simultaneously, then a second TESTCAT main unit can be used. Press the TONE button twice to inject a different tone to the cable. Now the tone tracer can be used to identify both cables at the patch panel end.

If the TONE button is pressed for a third time the test tone will be switched off.

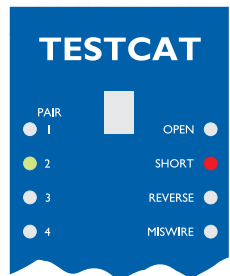
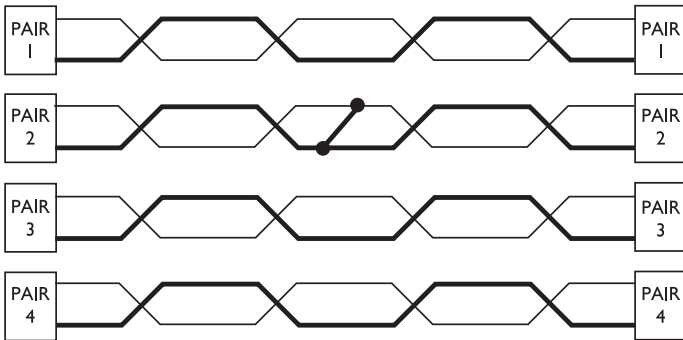
# Fault Indication

Below are examples of the different faults

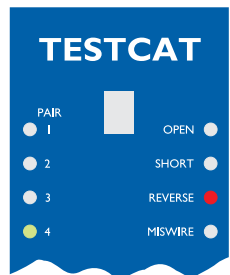
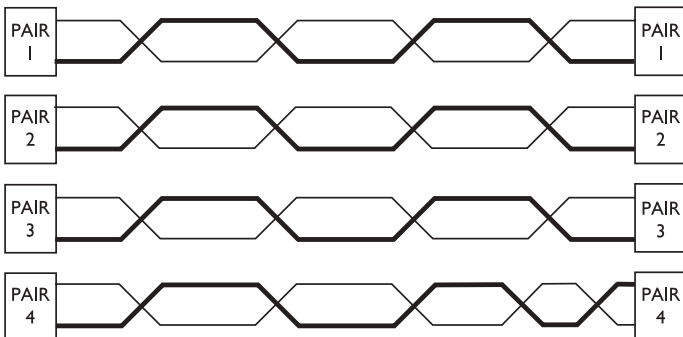
OPEN This LED indicates a break in the pair:



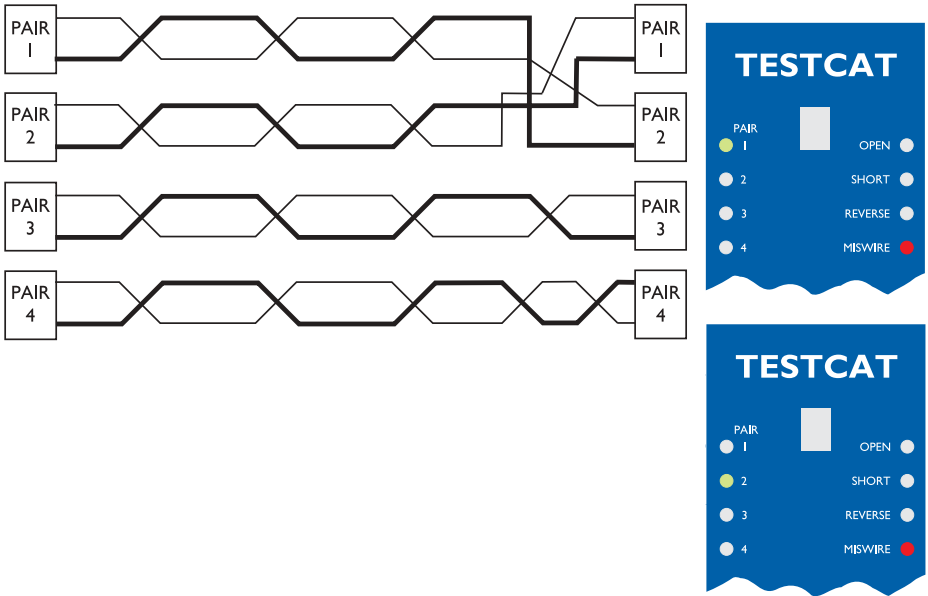
SHORT This LED indicates a short circuit within the pair:



REVERSAL This LED indicates a pair that is reversed:



**MISWIRE** This indicates that a wire from the pair is not connected to the correct pins at the other end of the cable:



## Wiring Details

Below is some information regarding T568A/B wiring:

Pin	T568A	Pair	T568B	Pair
1	W-Green	Pair 3	W-Orange	Pair 2
2	Green	Pair 3	Orange	Pair 2
3	W-Orange	Pair 2	W-Green	Pair 3
4	Blue	Pair 1	Blue	Pair 1
5	W-Blue	Pair 1	W-Blue	Pair 1
6	Orange	Pair 2	Green	Pair 3
7	W-Brown	Pair 4	W-Brown	Pair 4
8	Brown	Pair 4	Brown	Pair 4

The above is the standard wiring configuration, other combinations are acceptable.





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