



# 6516 RCD Testing Clear Thinking with Kewtech Instruction Manual

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## 6516 RCD Testing Clear Thinking with Kewtech

RCDs can be used as part of an installation design to enable the requirements of fault protection or additional protection to be met.

- Earth fault loop impedance test should be done and verified as acceptable before RCDs are tested.
- The test button on the RCD should be pressed to ensure the RCD is working before testing.
- BS 7671 is a minimum standard and only mandates that all RCDs are tested under an AC test current.
- If the RCD tester being used has settings for additional types of RCDs it is advisable to carry the optional tests below.
- RCDs should be tested on both the positive (0°) and negative (180°) half cycles of the AC supply with the highest tripping time recorded.

### Required tests.

			Max. tripping time	
RCD type	Instrument setting	Applied current	Non-delay	S type or time-delay
All	Type AC	$AC\ 1 \times I_{\Delta n}$	300 ms	500 ms

#### Optional tests.

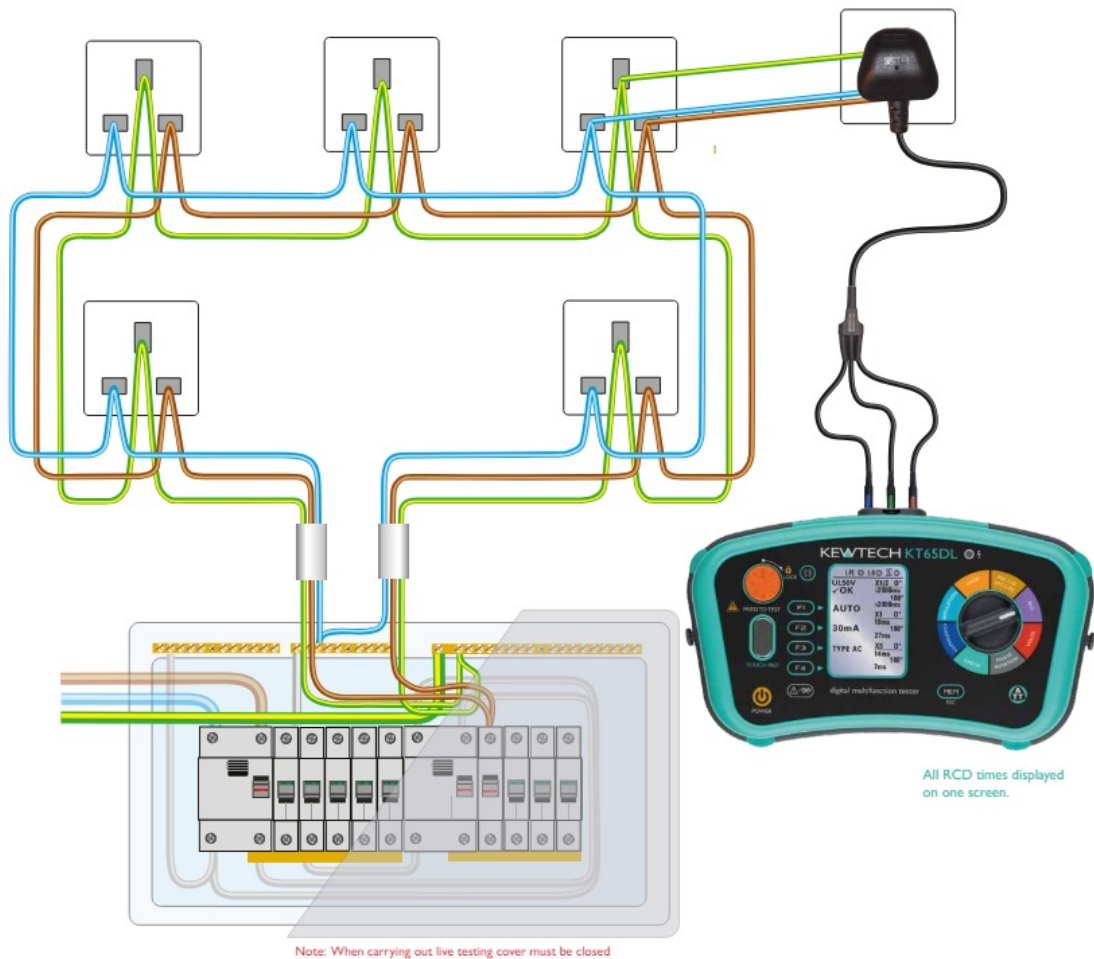
RCD type	Instrument setting	Applied current	Max. tripping time	
			Non-delay	S type or time-delay
All	Type AC	$1 \times I_{\Delta n}$	No trip	No trip
All RCDs with $I_{\Delta n} \leq 30\text{ mA}$	Type AC	$5 \times I_{\Delta n}$ or 250 mA (if declared by RCD manu.)	40 ms	150 ms
All RCDs with $I_{\Delta n} > 30\text{ mA}$	Type AC	$5 \times I_{\Delta n}$	40 ms	150 ms
Type A, F or B	Type A (after type AC tests)	$1/2 \times I_{\Delta n}$ $1 \times I_{\Delta n}$ $5 \times I_{\Delta n}$	No trip 300 ms 40 ms	No trip 500 ms 150 ms
Type B	Type B (after type AC & A tests)	$2 \times I_{\Delta n}$	300 ms	500 ms

NB: These values comply to RCDs designed to the Harmonised Standards: BS EN 61008, BS EN 61009, BS EN 60947-2 and using test equipment designed to BS EN 61557.

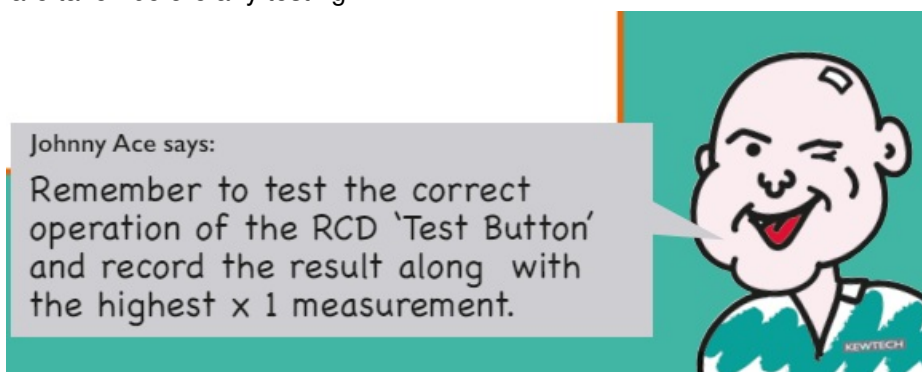
Scan to view video



<https://www.youtube.com/watch?v=ulyZPEEtBQ>

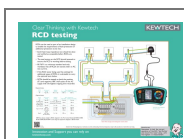


Kewtech 'Clear Thinking' diagrams are schematics to aid the understanding of electrical testing. Ensure proper safety procedures are taken before any testing.



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## Documents / Resources



**KEWTECH 6516 RCD Testing Clear Thinking with Kewtech** [pdf] Instruction Manual  
 6516 RCD Testing Clear Thinking with Kewtech, 6516, RCD Testing Clear Thinking with Kewtec  
 h, Testing Clear Thinking with Kewtech, Thinking with Kewtech

## References

- [K Home - Kewtech](#)
- [User Manual](#)

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