

KC-C series long test leads

Wind turbine lightning protection low current test lead sets (2 A)



- Designed to work with DLRO2
- Unique lightweight and versatile design ideal for difficult testing tasks
- Cable reels in two lengths KC100C (100 m) and KC50C (50 m)
- NEW 50 m extension (KC50E) allows up to 200 m testing with the DLRO2 long test lead mode
- Allows easy and reliable measurement of lightning protection circuit resistance of tall structures
- Easy to use click-to-lock connectors rated IP68
- Ideal for testing low resistance on wind turbines, railways and long cables

DESCRIPTION

The new KC-C test leads are updated versions of the popular KC series test leads that are taking advantage of the long test lead mode on the new DLRO2. The DLRO2's ability to test with up to 3.2 Ω total resistance at 1 A means the new KC-C series of leads can be much smaller and lighter, a distinct safety enhancement when working at height. The new KC100C cable reel weighs in at a low 7.6 kg, compared to the nearly 15 kg weight of the KC100 cable reel.

The KC100C and KC50C lead sets consist of two leads, a short one 3 m long, and a long one on a cable drum. On each end of each test lead there is an IP68 rated (when connected), click locking connector. This allows the terminations to be fitted on either end of the test leads, and the instrument connections are interchangeable with the test connections.



The lead sets are supplied with the following:

- One 50 or 100 m cable reel fitted with male connectors
- One short 3 m test lead fitted with male connectors
- One Kelvin probe fitted with short female connector
- One large Kelvin clamp fitted with short female connector
- Two right angled 4 mm test terminals to fit the DLRO2

The KC50E is an extension reel to fit either the KC50C or KC100C lead sets. One end of the test lead is fitted with a IP54 rated male connector and the other is fitted with a female connector. When the two are joined and locked together the connector becomes IP68 rated.



In use the extension reel would be unwound first, the cable disconnected from the from cable drum, and then connected to either a KC100C or KC50C. The cable can then continue to be paid out in the normal fashion.

KC-C series long test leads Wind turbine lightning protection test lead sets

FEATURES AND BENEFITS

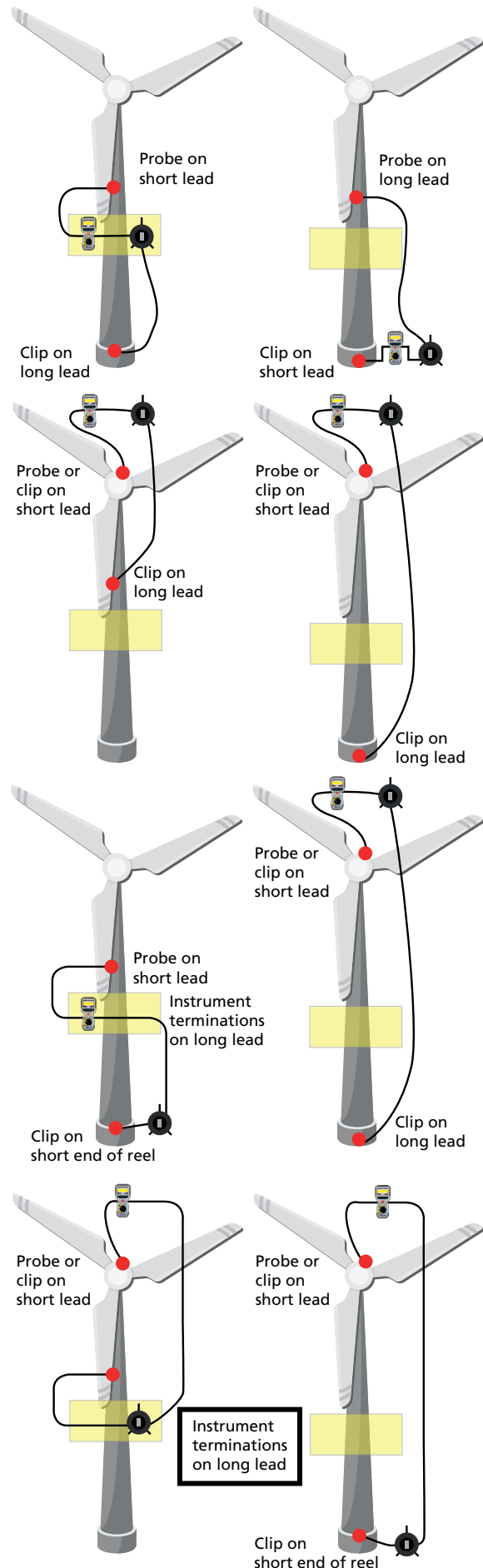
- Designed for use with the new DLRO2 that provides an easy to use dedicated long test lead mode
- Instrument terminations coloured red and black to suit DLRO2 terminals
- Lightweight design with thinner cable. Less weight greatly improves safety when working from height
- IP68 for working outdoors (when connectors are locked together)
- Click to lock connectors



To connect simply align and push together until you feel a positive click. Due to the water proofing seals a reasonable amount of force may be required.

To release pull sleeve back and pull connector apart

- Fully interchangeable instrument connections and test termination provide complete flexibility. Especially useful when testing wind turbines, with many ways of working possible as illustrated in the following diagrams



KC-C series long test leads

Wind turbine lightning protection test lead sets

APPLICATIONS

- Testing the lightning protection of a wind turbine
- Testing lightning and static protection on airplanes
- Testing cables on subsea cable laying applications
- Any application measuring low resistance on applications that require very long test leads

SPECIFICATIONS

DIMENSIONS

KC100C lead set

- Cable reel lead length 100 m
- Short test lead 3 m
- Test cable diameter 6 mm
- Kelvin probe distance between tips 5 mm
 - Kelvin probe tips are spring loaded hardened sharp, gold plated
- Kelvin clamp jaw capacity 35 mm
- Right angled shrouded instrument test terminations black and red 4 mm

KC50C lead set

- Cable reel lead 50 m
- Short test lead 3 m
- Test cable diameter 6 mm
- Kelvin probe distance between tips 5 mm
 - Kelvin probe tips are spring loaded hardened sharp, gold plated
- Kelvin clamp jaw capacity 35 mm
- Right angled shrouded instrument test terminations black and red 4 mm

KC50E Extension lead

- Cable reel lead 50 m
- Test cable diameter 6 mm

WEIGHTS

KIT Name	Weight of Cable Reel	Weight With Accessories
KC50C	4.42 kg	5.18 kg
KC100C	7.6 kg	8.36 kg
KC50E	4.42 kg	N/A

TEST LEAD RESISTANCE

Cable Reel	Accessories	Resistance (P)	Resistance (C)
KC50C or KC50E	4 mm Terminals / Probe	1.6 Ω	0.6 Ω
	4 mm Terminals / Kelvin Clamp	1.6 Ω	0.6 Ω
KC100C	4 mm Terminals / Probe	2.1 Ω	1.1 Ω
	4 mm Terminals / Kelvin Clamp	2.1 Ω	1.1 Ω
KC100C + KC50E	4 mm Terminals / Probe	2.5 Ω	1.5 Ω

Safety

Max <30 V working maximum

Environment

Leads IP68 when connected, IP54 when unconnected

ACCESSORIES

- Hook terminations to allow connection to DLRO10 range (1 A testing only up to 150 m length)
- Replacement probe tips
- Kelvin clamp termination
- Kelvin probe termination

ORDERING INFORMATION

Description	Part number	Additional Accessories	Part number
KC50C-KIT Kelvin clamp/probe reel (50 m)	1013-211	KC lead spare Kelvin clamp termination	1013-794
KC100C-KIT Kelvin clamp/probe reel (100 m)	1013-212	KC lead spare Kelvin probe termination	1013-793
KC50E Extension reel (50 m)	1013-213	KC spare 3m test lead female to female terminations	1013-791
		KC spare 4mm plug termination lead (1 off)	1013-792
		Straight hook termination for DLRO10 range	1007-036

SALES OFFICE

Megger Limited
Archcliffe Road Dover
CT17 9EN England
T +44 (0) 1304 502101
E UKsales@megger.com

KC100C-KC50C-KC50E_DS_en_V02

www.megger.com
ISO 9001

The word 'Megger' is a registered trademark

Megger[®]