

KC-C series long test leads

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

Megger®



- Designed to work with DLRO2
- Unique lightweight and versatile design
- Cable reels in two lengths KC100C (328ft.) and KC50C (164ft.)
- 164ft. extension (KC50E) allows up to 656ft. testing with the DLRO2 long test lead mode
- Allows easy and reliable measurement of lightning protection circuit resistance of wind turbines
- IP54 – IP68 rated, click to lock connectors

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 3.2Ω 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 (16.8 lbs), compared to the nearly 15 kg (33 lbs) weight of the KC100 cable reel.

The KC100C and KC50C lead sets consist of two leads, a short one 3 m (9.8ft.) 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 164ft. or 328ft. cable reel fitted with male connectors
- One short 9.8ft. test lead fitted with male connectors
- One Kelvin probe fitted with short female connector
- One large Kelvin clip fitted with short female connector
- Two instrument connections with right angled 3/16in. terminations to fit the DLRO2

The KC50E is an extension reel that fits 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 cable drum, and then connected to either a KC100C or KC50C. The cable can then continue to be unrolled.

KC-C series long test leads

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

Megger®

FEATURES AND BENEFITS

- Designed for use with the new DLRO2 that provides an easy to use dedicated long test lead mode
- Instrument terminations colored 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



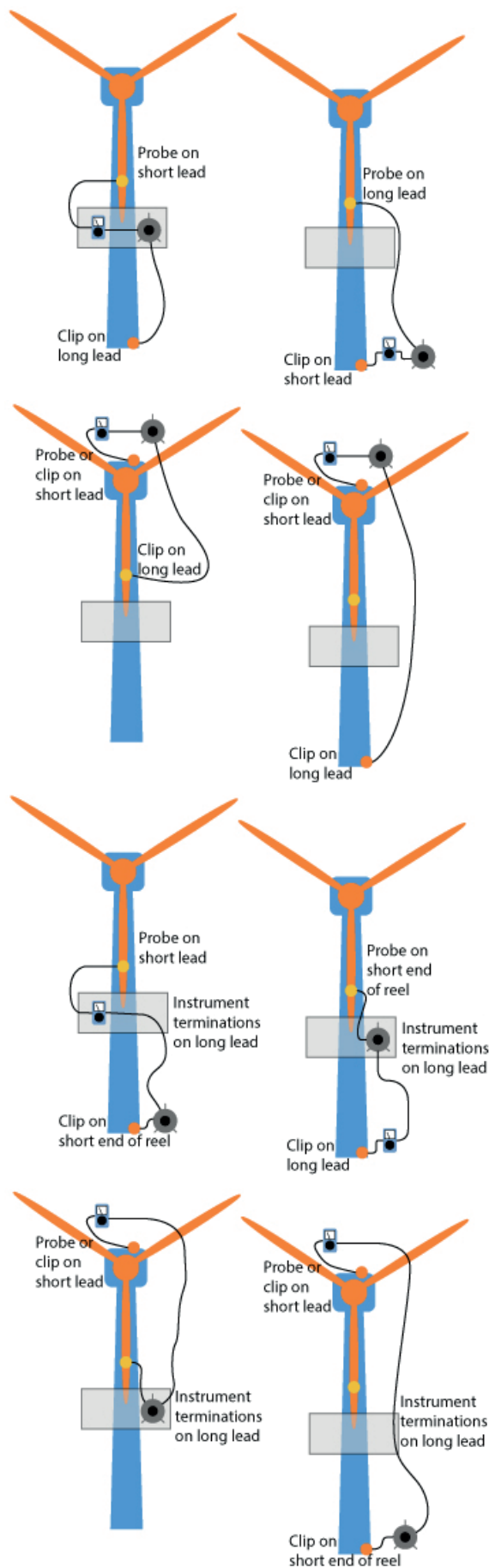
To connect simply align and push together until you feel a positive click. Due to the water proofing seals a reasonable amount of force may be required.

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

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



KC-C series long test leads

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

SPECIFICATIONS

DIMENSIONS

KC100C lead set

- Cable reel lead length 100 m (328 ft.)
- Short test lead 3 m (9.8 ft.)
- Test cable diameter 6 mm (1/4 in.)
- Kelvin probe distance between tips 5 mm (13/64 in.)
 - Kelvin probe tips are spring loaded hardened sharp, gold plated
- Kelvin clip jaw capacity 35 mm (1-3/8 in.)
- Instrument terminations are shrouded right angle 4 mm (5/32 in.) plugs

KC50C lead set

- Cable reel lead 50 m (164 ft.)
- Short test lead 3 m (9.8 ft.)
- Test cable diameter 6 mm (1/4 in.)
- Kelvin probe distance between tips 5 mm (13/64 in.)
 - Kelvin probe tips are spring loaded hardened sharp, gold plated
- Kelvin clip jaw capacity 35 mm (1-3/8 in.)
- Instrument terminations are shrouded right angle 4 mm (5/32 in.) plugs

KC50E Extension lead

- Cable reel lead 50 m (164 ft.)
- Test cable diameter 6 mm (1/4 in.)

WEIGHTS

KIT Name	Weight of Cable Reel	Weight With Accessories
KC50C	4.42 kg (9.74 lbs)	5.18 kg (11.42 lbs)
KC100C	7.6 kg (16.8 lbs)	8.36 kg (18.43)
KC50E	4.42 kg (9.74 lbs)	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 (492 ft.) length)
- Replacement probe tips
- Kelvin clip termination
- Kelvin probe termination

ORDERING INFORMATION

Description	Part number	Additional Accessories	Part number
KC50C-KIT Kelvin clip/probe reel (50 m / 164 ft.)	1013-211	KC lead spare Kelvin clip termination	1013-794
KC100C-KIT Kelvin clip/probe reel (100 m / 328 ft.)	1013-212	KC lead spare Kelvin probe termination	1013-793
KC50E Extension reel (50 m / 164 ft.)	1013-213	KC spare 3m test lead (no terminations)	1013-791
		KC spare 4mm plug termination lead (1 off)	1013-792

SALES OFFICE

Megger USA -
Valley Forge Corporate Center
2621 Van Buren Avenue, Norristown,
Pennsylvania, 19403, USA
T. 1-610 676 8500
F. 1-610-676-8610

KC100C-KC50C-KC50E_DS_en_US_V01

www.megger.com
ISO 9001
The word 'Megger' is a registered trademark

Megger