



KC-C Reels

Safety Warnings and Operation

For use with the DLRO2

User Guide

WARNING

1. WARNING

These warnings must be read and understood before use:

- The lead set is intended only for use with the Megger DLRO2; it must not be used with other measuring instruments
- Read the safety warnings provided with the DLRO2 before use
- Before use, inspect the lead set for wear and damage. Probes, wires and connectors must be in good order, clean and dry with no broken or cracked insulation
- Damaged lead sets must NOT be used
- The lead set is rated only for connection to low voltage circuits: <30 V at a maximum of 2 A
- The safe connection rating is that of the lowest rated item in the measurement circuit which comprises instrument, probe assembly and accessories
- Do NOT connect this lead set to mains circuits
- The lead set is rated for indoor and outdoor use
- Operating environment between 0 °C and +50 °C, <95% RH
- The safe altitude for use is $\leq 3,000$ m above sea level
- If the lead set is used in a manner not specified by the manufacturer, the protection provided by the test lead may be impaired
- Mass: KC100C: 7.6 kg. KC50C and KC50E: 4.4 kg

2. Operation

- This test lead is intended for use with a Megger DLRO2 to measure bonded conductors. For example, the resistance of lightning receptors to earth for large equipment in production, or in-situ during commissioning or maintenance, or following repair
- The KC series enable construction of long test leads in 50 m increments suitable for testing large structures.
- A test lead will consist of the appropriate instrument connector and asset clips at each end of a KC50C (50 m) or KC100C (100 m) lead. One or two KC50E (50 m) extension leads may be added to the assembly to extend the length.
- For assemblies using more than one cable, the KC50E extension reel should be unwound and removed from its drum first: lift the extension cable connector from the slot in the drum and pass it through the hole in the drum wall. Connect the extension to the next cable to be unwound and repeat the process.
- Ensure that 4 mm test terminals are correctly connected to the DLRO2: mating red to red and black to black
- All tests must be carried out in accordance with the equipment manufacturers' procedures and test limits
- Before testing tall structures, ensure that any static potential is fully discharged by connecting an additional ground wire to the installed lightning protection cable at the base of the structure
- When working with tall structures, consider the risks from carrying heavy equipment and unreeling cables at height. Arrange a safe procedure to protect those working below and at height during setting-up, testing and removing the test connections, especially when bad weather, high winds or precipitation add to the risk