Title: Calibration Of A Conductor Rail Test Lamp

Scope

Work Instruction for the internal calibration of conductor rail test lamps. To be used in the absence of a manufacturers calibration instruction.

Preparation

Calibration must be carried out using Category A Master instruments as required.
Equipment required;-

- Fluke 87 DMM.
- Foster Variac Transformer power supply unit (PSU).

Method

2.1 The UUT serial number and customer must be entered onto the calibration statement sheet. (see appendix A).

2.2 Note the lab temperature and R.H. (This is to be entered onto the calibration certificate).

2.3 Connect the leads from the Foster PSU to the Fluke DMM.

2.4 With additional leads, connect the DMM Volts terminal to one of the conductors on the test lamp box, and connect the DMM Com terminal to one of the conductors on the earth handle.

2.5 Whilst observing the lamps, raise the voltage to 60V, each bulb should begin to glow. If all bulbs are lit, raise the voltage to 300V for one minute. After one minute, lower voltage ensuring supply is switched OFF prior to removing leads from test lamp conductors.

2.6 Complete the calibration sheet and certificate.

- All records must be kept for audit purposes

References

Appendix A Calibration Statement Sheet

Documents
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CALIBRATION OF CONDUCTOR RAIL TEST LAMPS

SERIAL NO:

FROM:

CUSTOMER:

DATE: 21/04/2008

The Test Lamp was connected to a variable DC source to supply the threshold voltage of the UUT.
Test Lamp Threshold Voltage = 60V
The supply was then increased to 300V
All lamps remained lit throughout the test
Uncertainty of Measurement DC V ± (0.1% +1)
The uncertainties refer to the measured values and do not relate to the stability of the UUT.

Signed _____

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