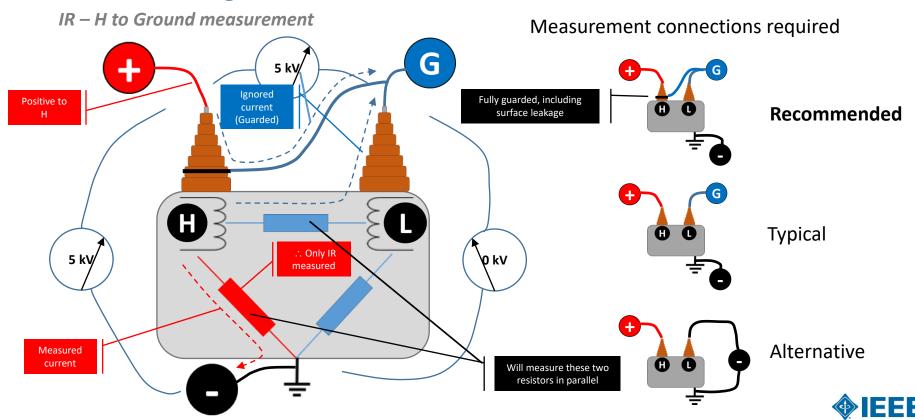
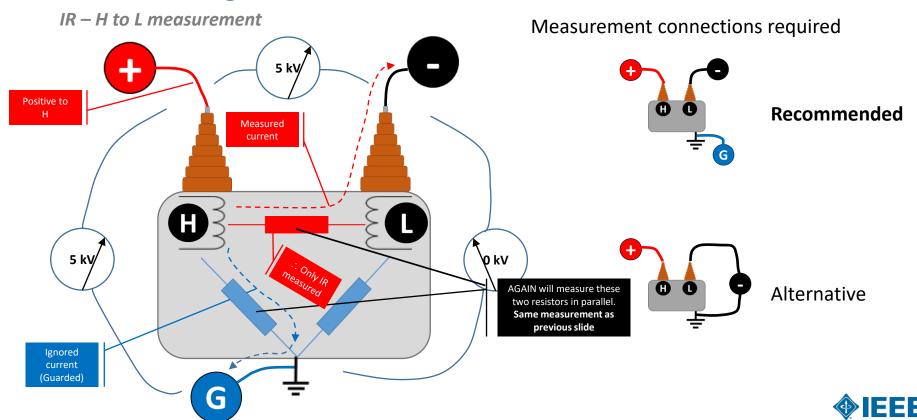


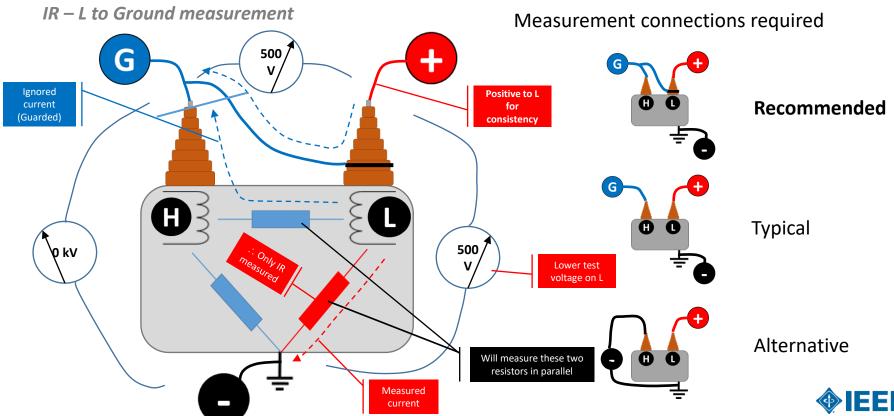
Task Force

Core Ground and Winding Insulation Resistance
Performance and Interpretation









Instrument basic requirements / recommendations

- Must haves
 - Guard terminal
 - Without guarding out unwanted leakage current huge additional variation is measured
 - Guard terminal maximum error introduced specification
 - Can introduce considerable additional errors
 - Use of guard highly recommended
 - Overall service accuracy
 - Basic accuracy + environmental additional uncertainties
 - Maintaining set output voltage
 - Guarded surface leakage can be high enough to load test voltage
 - Variations in test voltage can change test result



Test result recorded information

- Must record:
 - Were screened test leads used or not?
 - Ambient temperature
 - Change or 10°C can half or double IR value
 - Need to apply temperature correction
 - Humidity
 - If surface leakage has not been guarded, an increase in humidity can greatly increase surface leakage and reduce measured IR value
 - Test voltage applied during test
 - To ensure test results will be comparable

