



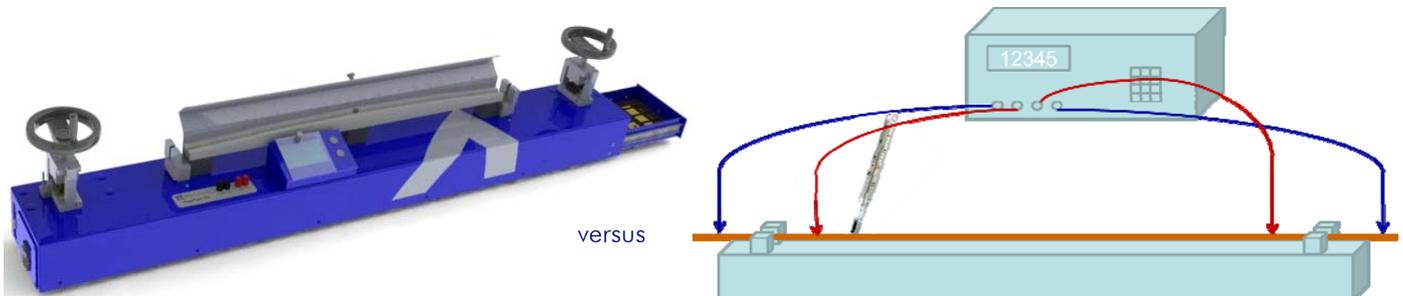
Linear resistance measurement ARE WE REALLY EXPENSIVE ?

Remain competitive in controlling your raw material consumption

■ We deliver an integrated, functional and accurate equipment

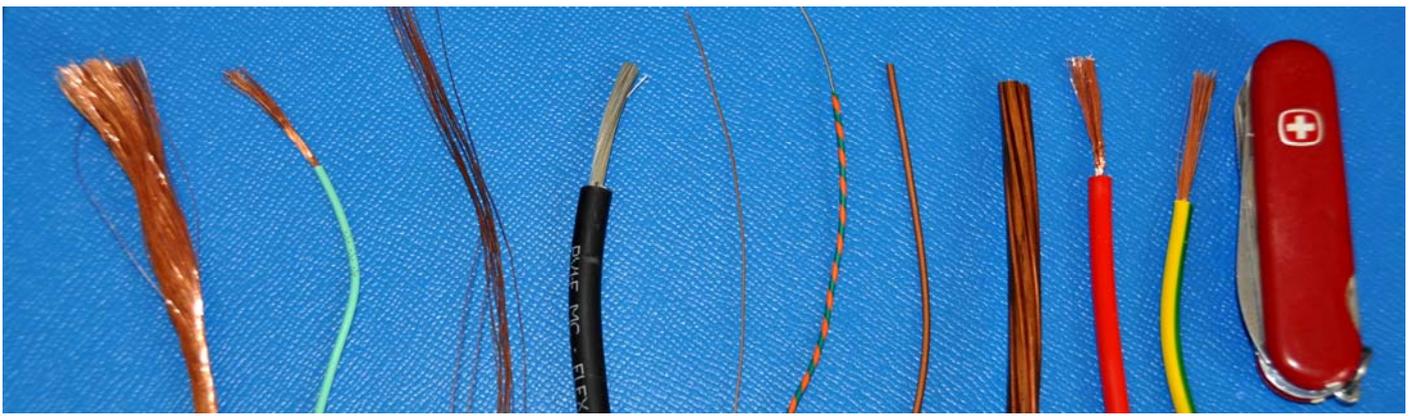
Usually the other equipment proposed on the market are by manufacturers specialised in measuring instruments (micro-ohmmeter). To approach the wire and cable industry, they propose accessories such as connection rule, temperature probe, Kelvin test leads,...). Their electrical specifications are related to the performance of the sole instrument, their dimensional specifications are simply the clamping capacity of the rule. It is rare to see a clear commitment on the specifications for the complete system.

The reliability of the measurement depends on the type of sample, the operator skills and uncertainties related to the connecting device. In our equipment, all components are integrated in a single housing to perfectly master the uncertainties. Unlike most other manufacturers, our specifications apply to a complete measuring system, which matches the needs of our customers.



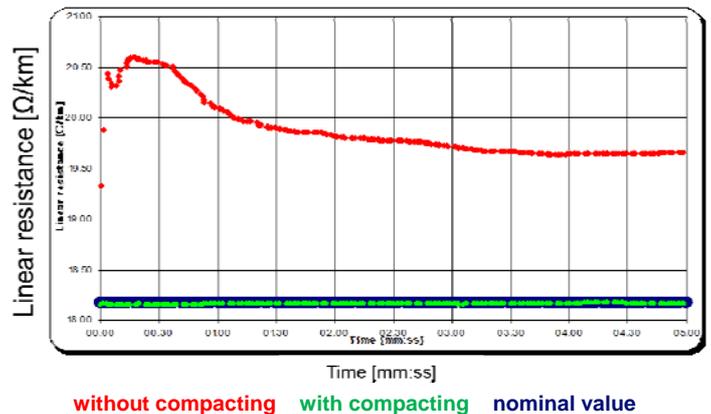
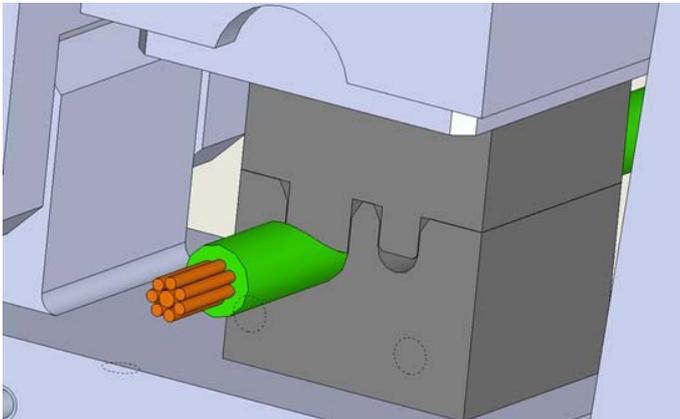
■ You can measure most of your samples

It is relatively easy to measure an ideal sample (new blanked copper bar) and almost all equipment on the market do it well. But the cable industry does not manufacture only this type of conductor. The measurement of oxidized conductors (aluminum or old copper), flexible braids, stranded insulated conductors,... requires additional skills and some constraints. Equipment taking into account these criteria enable an higher reliability.



You can rely on the measurement

Sometimes the measurement conditions are difficult (contact resistances between conductors not negligible), then values will be not repetitive or not correct. A moving average help to show stable values, but not necessarily correct values. AESA Cortailod conducted a study (and published a technical paper) on the effects of contact resistance in the measurement of the linear resistance of stranded conductors. For the time being, AESA Cortailod is the sole manufacturer to put into practice the findings of this study in linear resistance bridges to avoid random measurements of delicate samples.



The technical paper (available on our website) shows that the use of a compacting system provides an average contact resistance up to 40x smaller and a standard deviation of the contact resistance up to 85x smaller. The measured value is then obtained more quickly and reliably.

Are we really more expensive ?

To have a reliable comparison, it is required to consider all the necessary components (micro-ohmmeter, measuring ruler, Kelvin test leads , temperature sensor, computer, software, certificate,...). We deliver a comprehensive, integrated, calibrated and certified equipment. If you want to compare two solutions, take the time to not only compare prices but also the reliability of results and ease of use (the repeated trials and operational costs are parts of the ownership cost as well). We are ready to prove our performance. In some cases you may be able to be satisfied with a generalist, but AESA Cortailod offers the services of a specialist across a range of products to suit your specific needs.

ISO17025
REGISTERED



In our product range, you will find solutions to measure :

- your insulated wire and bars
- single & stranded conductors
- your braids
- your round cords & sectors
- on-line and in the lab
- copper, aluminium & other materials