LOW STRESS ELONGATION TESTER mod. LSE, LSE-PC

STANDARD: ASTM D1676-99

TEST PROCEDURE: To determine the wire softness .
Take three samples of enamelled wire 40 cm (1.5”) in length, paying attention to handle them with care avoiding deformation which will false the final test result. The sample shall then be placed between two jaws at a distance of 10”, a pre-load of 51,75 N/mm^2. The comparator used to measure the softness must be zeroed, double the test weight (103,5 N/mm ^{2}) for a time of 30”, take out then the doubled weight, read on comparator the Δall value, then calculate the low stress elongation value with the following formula:

$$L.S.E = \frac{\Delta all}{10”} \times 100$$

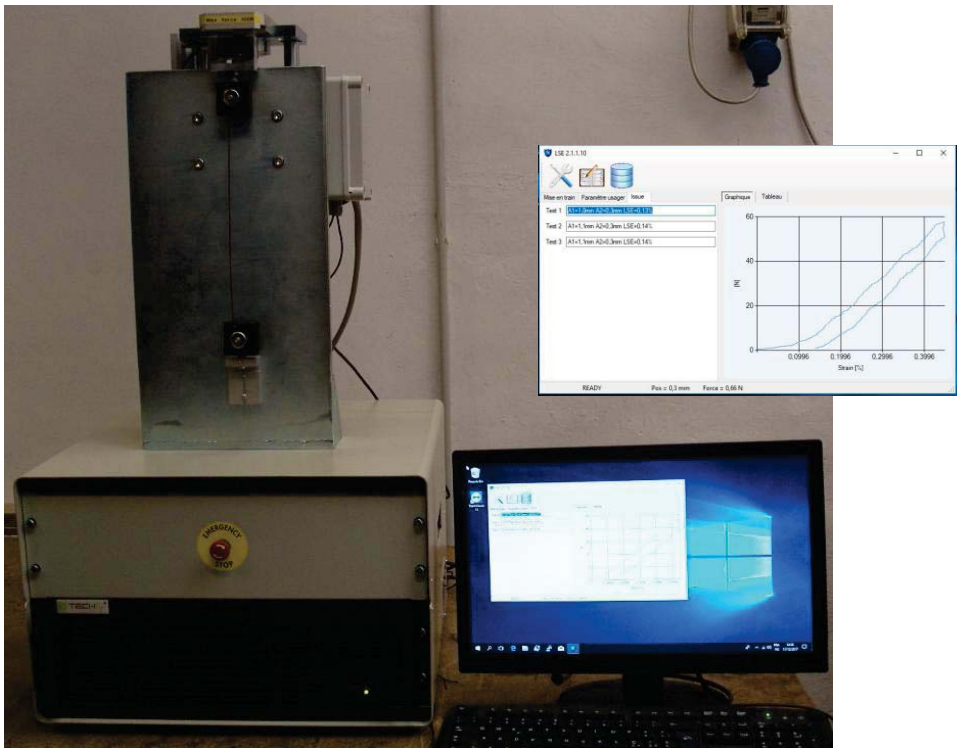
Calculate then the average of three measurements.

An high LSE value indicates that the wire has greater formability and is better able to absorb bends and twists during motor and coil winding operation. Low LSE value (with reference to the same wire diameter) indicates harder wire with more springiness.

Model	Power supply	Dimensions	Weight
LSE	230 V 50/60Hz 1 phase 100VA	w 500 x d 550 x h 620 mm	25kg 55 lb
LSE-PC	230 V 50/60Hz 1 phase 150VA	w 500 x d 550 x h 620 mm	27kg 59.4 lb

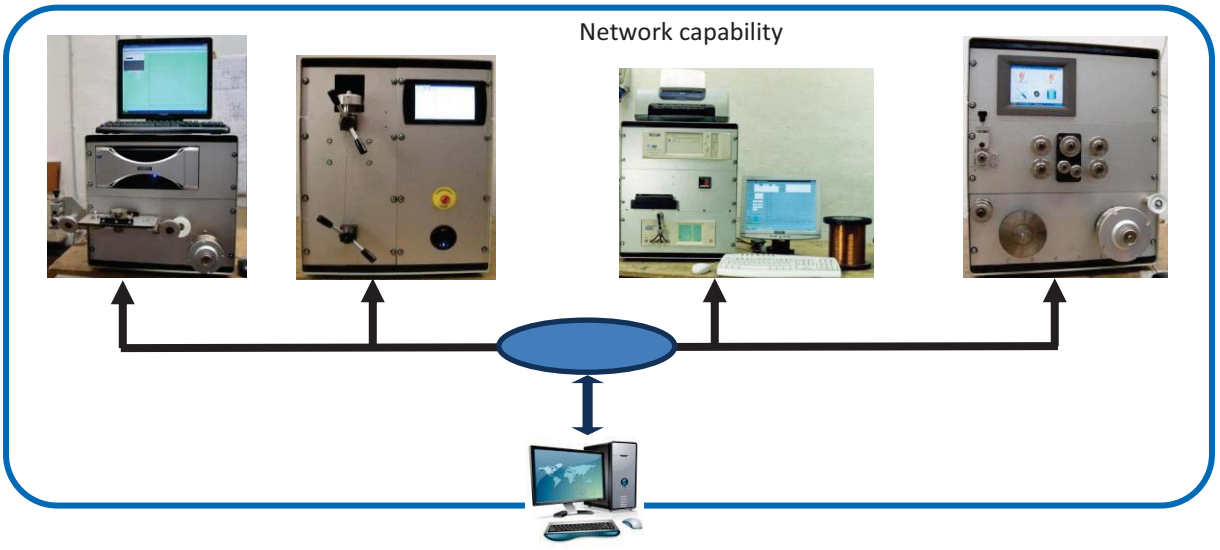
Model LSE

- Suitable for wire diameter range from 0,10 up to 2,50 mm (38–10 AWG). (Other range upon request).
- Meets ASTM D-1676 requirements.
- High accuracy load cell and measurement repeatability.
- Very slow translation speed with high precision ball bearing screw.
- User friendly also for unskilled personnel, doesn’t need pre-load and load weights, so complicated calculation for their value are avoid.
- Keypad input and LCD display.



Model LSE-PC

- Suitable for wire diameter range from 0,10 up to 2,50 mm (38–10 AWG). (Other range upon request).
- Meets ASTM D-1676 requirements.
- High accuracy load cell and measurement repeatability.
- Very slow translation speed with high precision ball bearing screw.
- Computerised version, which shows the graphical representation of low stress elongation.
- Network capability.
- User friendly also for unskilled personnel, doesn't need pre-load and load weights, so complicated calculation for their value are avoid.
- Print-out of each single result with calculation of minimum, maximum, average and standard deviation values.
- Easy calibration procedure



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