ENGLISH AND METRIC SYSYTEM OF MEASUREMENT

A system of measurement is a set of units which can be used to specify anything can be measured.

These are common units of measurement used in making layout and installation of electrical materials:

A. Linear measures

 English system provides the creative way on how people can measure by themselves. For example, people measure shorter distance on the ground with their feet. They measure long distances by their palms which is equal to a yard.

Inch - a unit of linear measure equal to one twelfth of a foot

Foot - a unit of linear measure equal to 12 inches

Yard - a unit of linear measure equal to 3 feet

Miles - a unit of linear measure equal to 1,760 yards

 Metric system is a decimalized system of measurement. It exists in several variations with different choices of base units. Metric units are widely used around the world for personal, commercial, and scientific purpose. Millimeter - one-thousandth of a meter

Centimeter - hundredth of a meter

Decimeter – tenth of a meter

Meter - first introduced as a unit of length in the metric system.

B. English units and each equivalent

12 inches = 1 foot(ft)

3 feet = 1 yard (yd)

1 yard = 36 inches

1 miles = 1,760 yard

C. Metric units and each equivalent

10millimeter (mm) = 1centimeter (cm)

10centimeter = 1decimeter(dm)

10 decimeter = 1meter

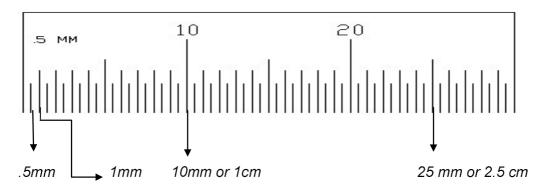
D. English to metric equivalent

1 inch = 2.54 cm

1 foot = 30.48 cm

1 yard = 91.44 cm

E. The centimeter graduation

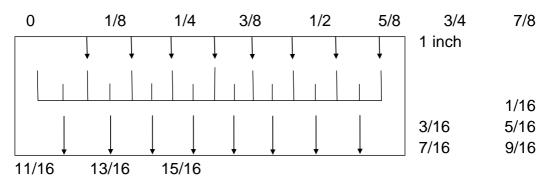


The graduation shows that every digit is .5mm How to read the cm graduation:

- 1. First graduation is .5 mm
- 2. Second graduation is 1mm
- 3. Third graduation is 1.5mm
- 4. Fourth graduation is 2mm

Note: If the graduation reaches 10mm, it is equivalent to 1cm.

F. The inch graduation



How to read the inch graduation:

- 1. First graduation is 1/16
- 2. Second graduation is 18
- 3. Third graduation is 3/16
- 4. Fourth graduation is 1/4, then follow the given scale above.