

ELECTRICITY/विद्युत





અમિટર

↓
વિદ્યુત
current
"Ammeter"

Voltmeter



વોલ્ટ મિટર

↓
Voltage

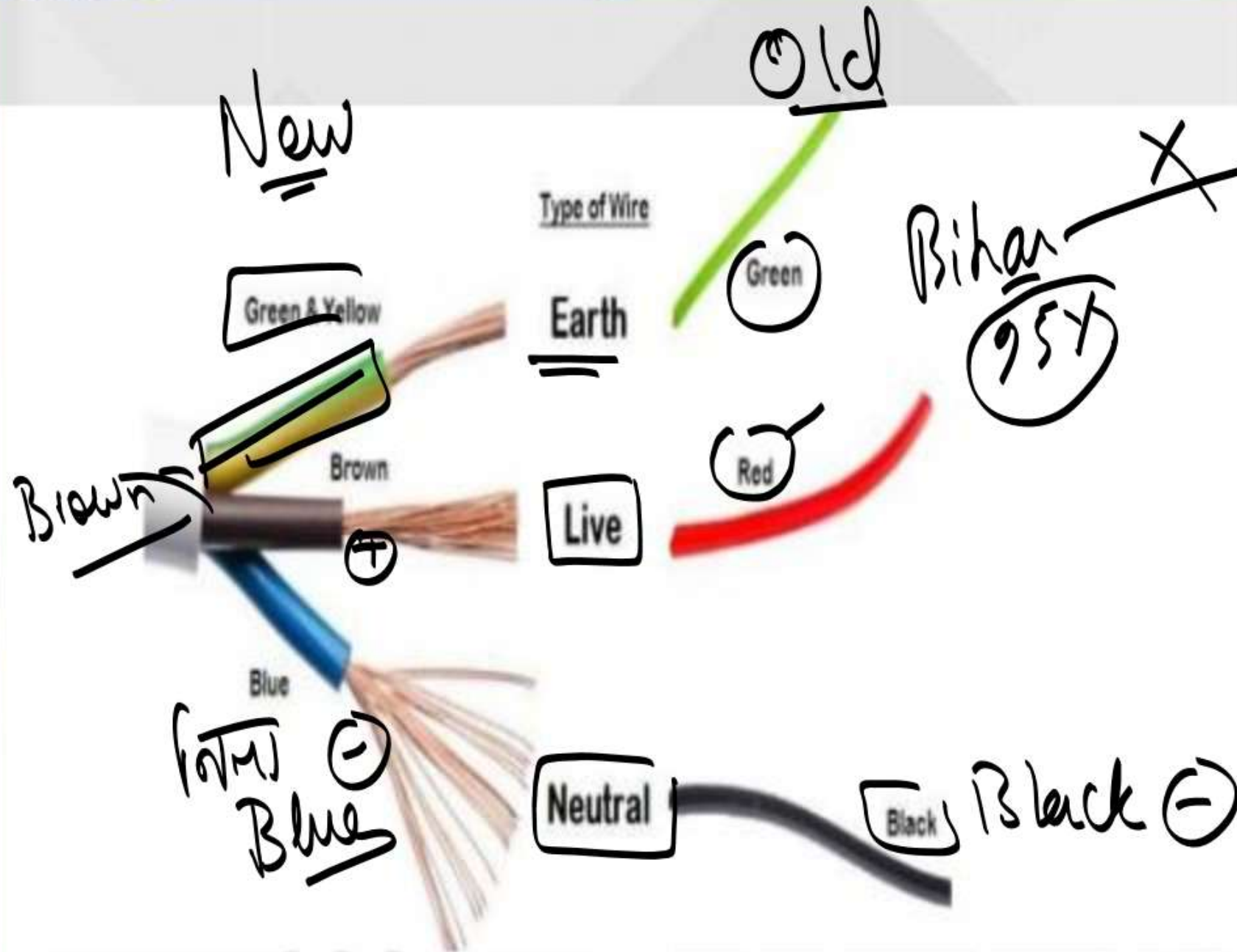


Galvanometer

↓
કોટી કોટી
વિદ્યુત વાટ

Small Amount
of current

1081



	Old	New
⊕	लाल (Red)	भूरा (Brown)
⊖	काला (Black)	नीला (Blue)
Earthing	ईस्ट green	ग्रीन + ईस्ट yellow + green



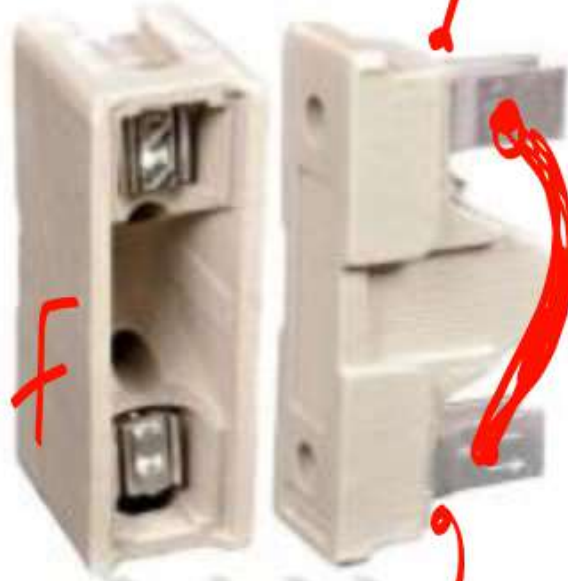
Kilowatt hour
(kW-h)



digital meter

↓
prepaid
meter

FUSE-



Fuse (उपकरण)



Wire (तार)

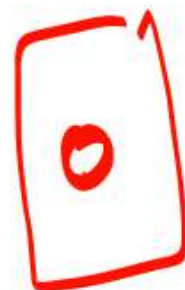
Alloy → Copper (Cu)

Lead (Pb)

Tin (Sn)

melting point of fuse wire → कम (Low)

500W



MINIATURE CIRCUIT BREAKER(MCB)-



fuse (फ्यूज)



MCB

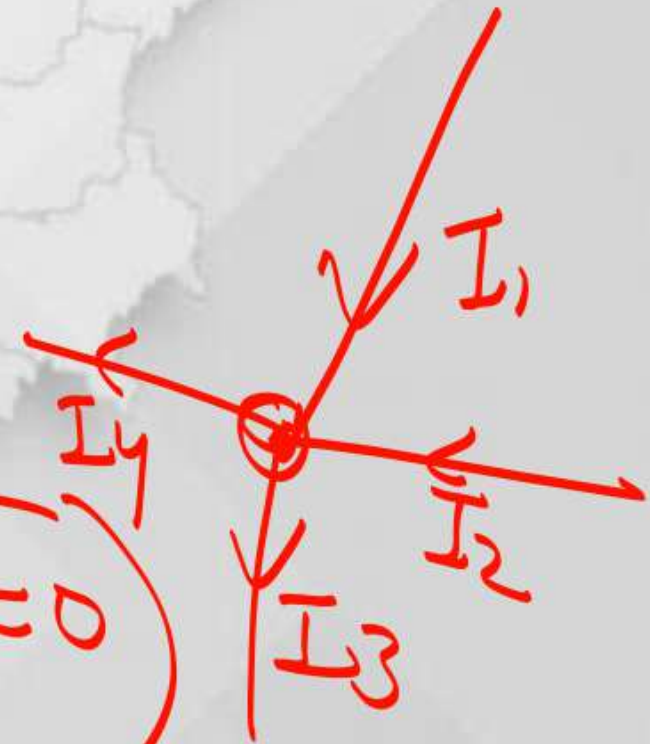


Kirchoff's Law
1st Law

$$H = I^2 R T$$

6A, 3A, 6A

$$I_1 + I_2 - I_3 - I_4 = 0$$



स्थिरवैद्युतिकी/electrostatic





Thunderstorm
(विद्युत आसत)

$$R \propto \frac{L}{A} \propto T$$

$$R \propto T$$

Theory

$$R = \rho \frac{L}{A}$$

X | ✓

$$\rho = \frac{RA}{L} \Rightarrow \frac{\Omega m^2}{m} = \boxed{\Omega m}$$

विशेष प्रतिरोध
(Specific Resistance)