



## Non-Metallic Sheathed Cable

In this course you learned...

Lets look at common home-electrical-wire, components, and typical uses.

Romex Wire	Name & Amps	Typical Use
	14-2 Romex 15 Amps	Receptacles and Lighting
	14-3 Romex 15 Amps	Lighting - 3-Way Switches and Smoke Detectors
	12-2 Romex 20 Amps	Receptacles
	12-3 Romex 20 Amps	3-Wire Circuits - Kitchen / Garage
	10-2 Romex 30 Amps	Water Heaters - Small A/C
	10-3 Romex 30 Amps	Dryers 4-Wire Receptacle
	8-3 Romex 40 Amps	Small Ovens

The **smaller** the AWG **number**, the **LARGER** the wire will be.

Amperage x Voltage = Wattage

Even though Copper is the most common conductor of residential electricity, Aluminum wiring is still being used today.

The current specification for aluminum branch circuit wiring is called CO/ALR and stands for copper-aluminum, revised.



Kowalski Construction, Inc. DBA Kowalski Electrical ROC271601

NM = Non-Metallic

SE = Service Entrance

AC = Armored Cable

UF = Underground Feeder

AWG = American Wire Gauge

THHN stands for  
Thermoplastic High Heat  
Resistant Nylon Coated

THWN stands for  
Thermoplastic High Heat &  
Water Resistant Nylon  
Coated

NM-B is the only option  
currently available from  
Southwire, the makers of  
Romex.

NM-B is rated up to 194°  
Fahrenheit (90C)

**KOWALSKI  
CONSTRUCTION, INC.**

2219 W. MELINDA LN. BLDG A.

PHOENIX, AZ 85027

OFFICE: (602) 944.45

FAX: (602) 944.6844

WWW.KOWALSKI.COM

INFO@KOWALSKI.COM