

# Great Electrical Tools for your Shop

Gene Wiggs

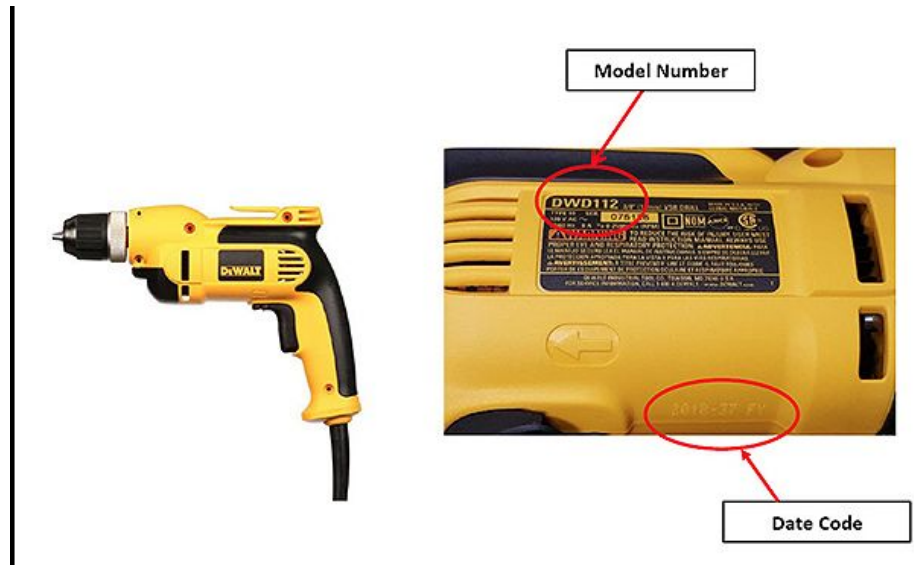
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# Recalls

DeWALT initiated a recall (number 19-059) that involves the DWD110 and DWD112 models of 3/8-in. variable speed reversing electric drills. The drills have a power cable connected at one end. DeWALT reports that the electrical wiring in these drills potentially can contact internal moving parts and pose a shock hazard. The recall includes about 122,000 drills manufactured in the USA and sold at The Home Depot and Lowe's stores as well as other hardware and online sources between September 2017 and November 2018.

<http://www.woodworkersjournal.com/dewalt-soft-starter-recalls/>





## Raymond Innovations A10 Soft Starter

On Feb. 8, 2019, Raymond Innovations issued a recall notice to customers who have purchased the A10 Soft Starter. The company has recently become aware of an issue where the internal components of the A10 can break down from electrical stress, causing the device to either short circuit to the grounded aluminum body of the Soft Starter or result in a total power loss. The symptoms of a short circuit are visible electrical sparks and a burn hole in the aluminum body, followed by a tripped circuit breaker.

Raymond Innovations requests that customers cease using their current A10 Soft Starters immediately. The company is offering a free replacement of an updated A10 with unlimited runtime versus the previous version's 5-minute maximum runtime.

# Assumptions

- Most of us do some electrical work in our shops
- We all have basic tools (hammer, screwdriver)
- We want to be safe



# What are some specialty tools to make the job easier?

- Tools for Type NM (Romex)
- Tools for Type MC cable (metal clad or BX)
- Tools for cords
- Others

Won't discuss conduit

# Tools for NM cable

Side Cutters

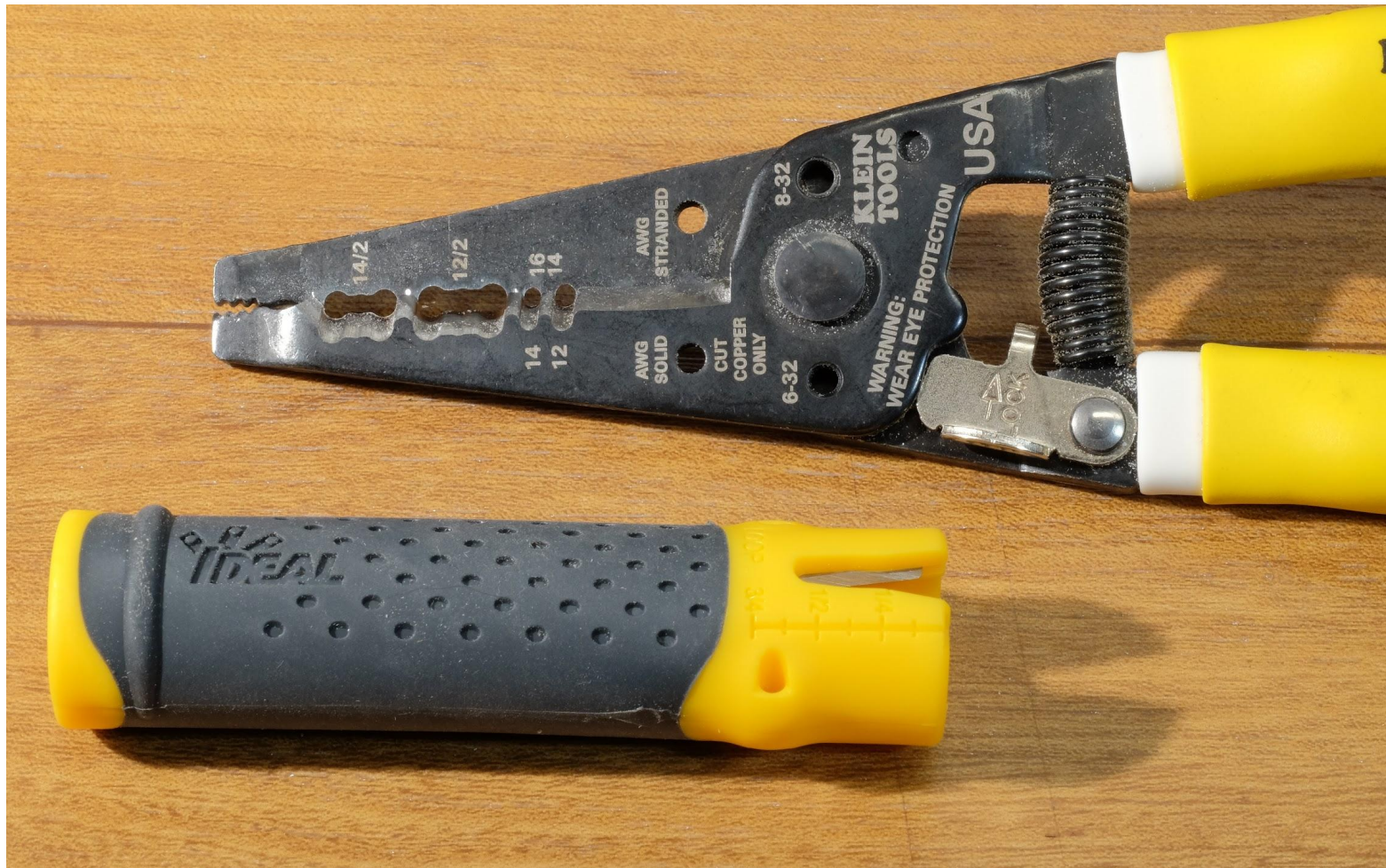
Needle Nose pliers



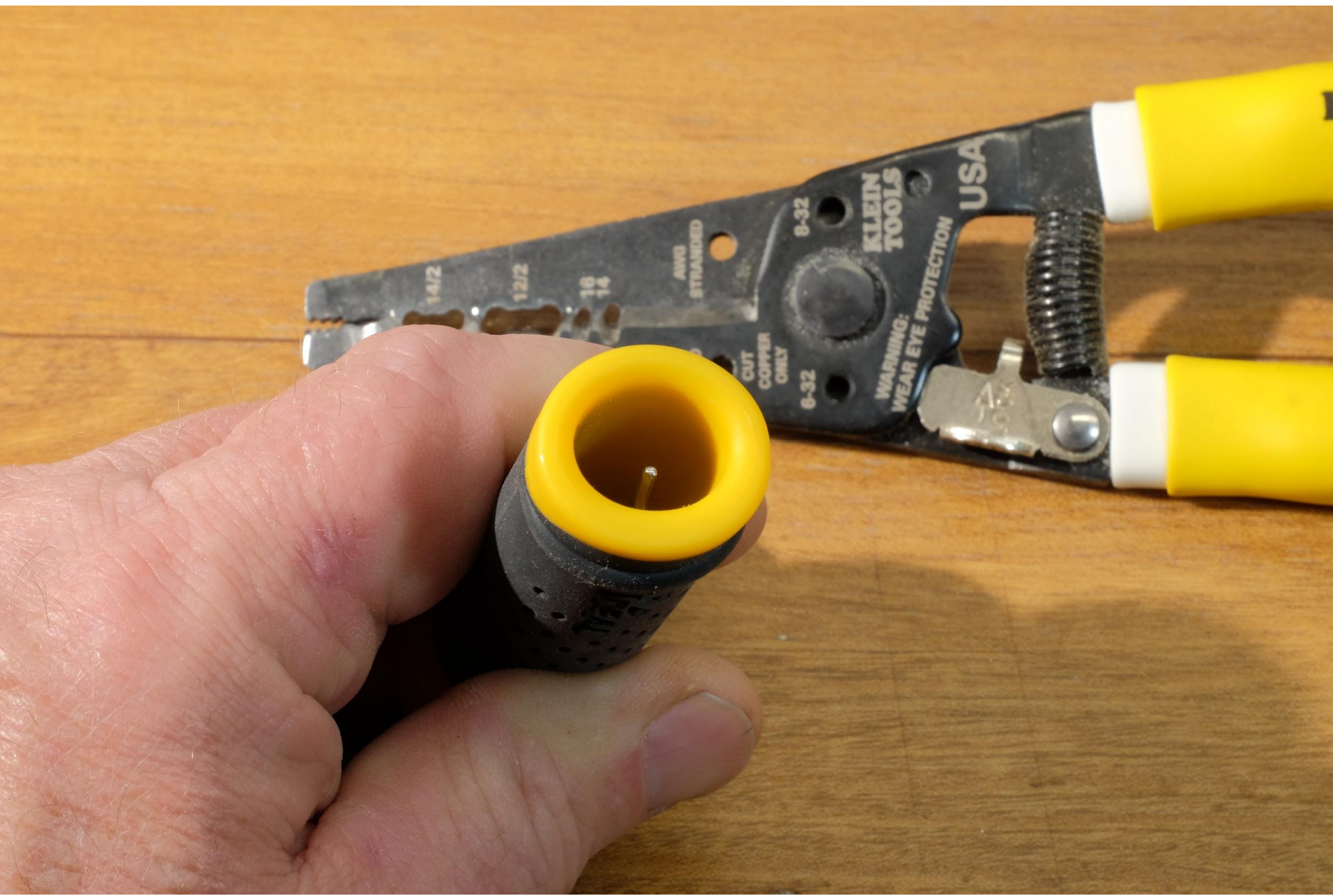


# Tools for NM cable

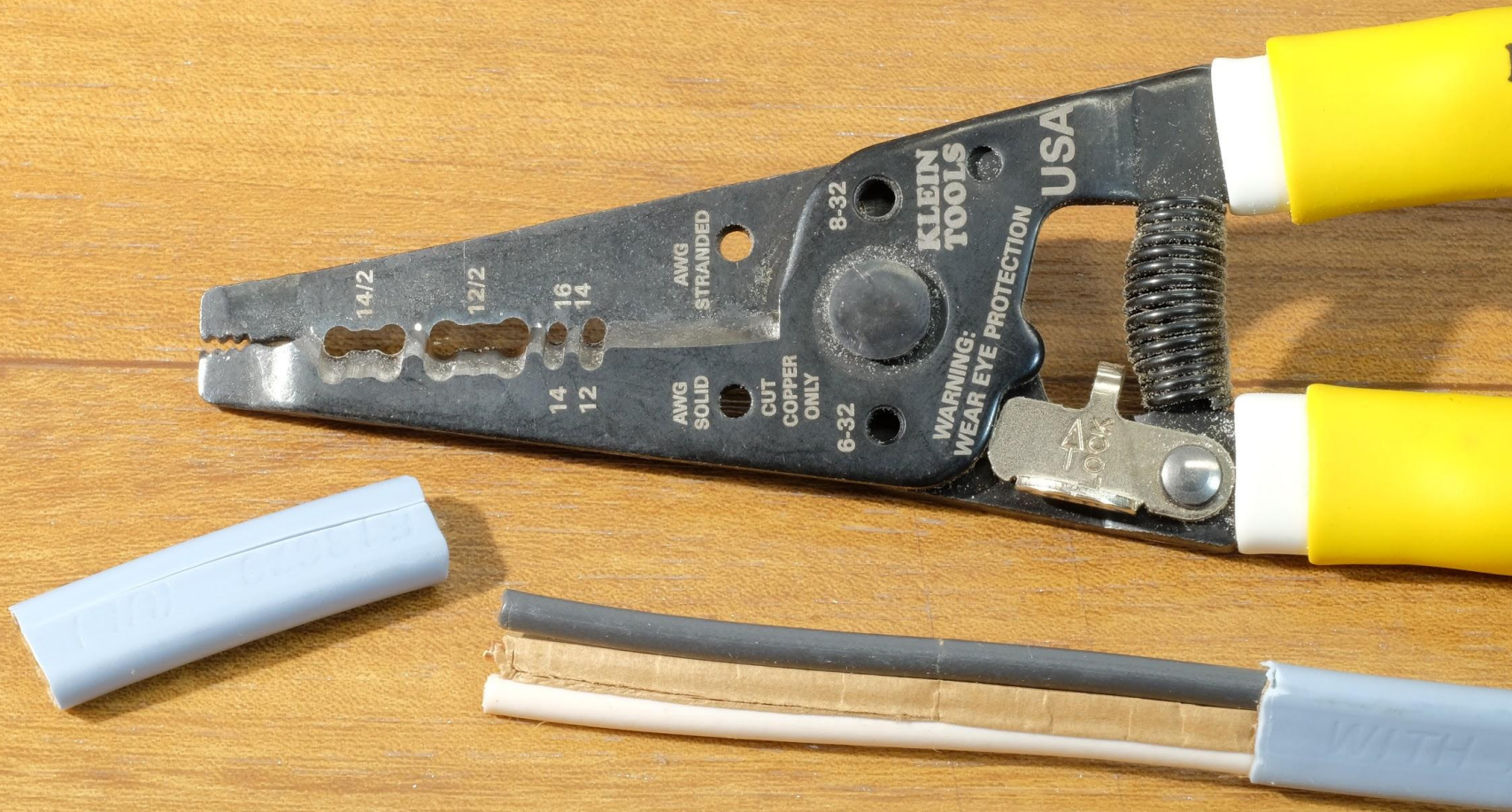
Cable Stripper - Ideal, Klein, Southwire







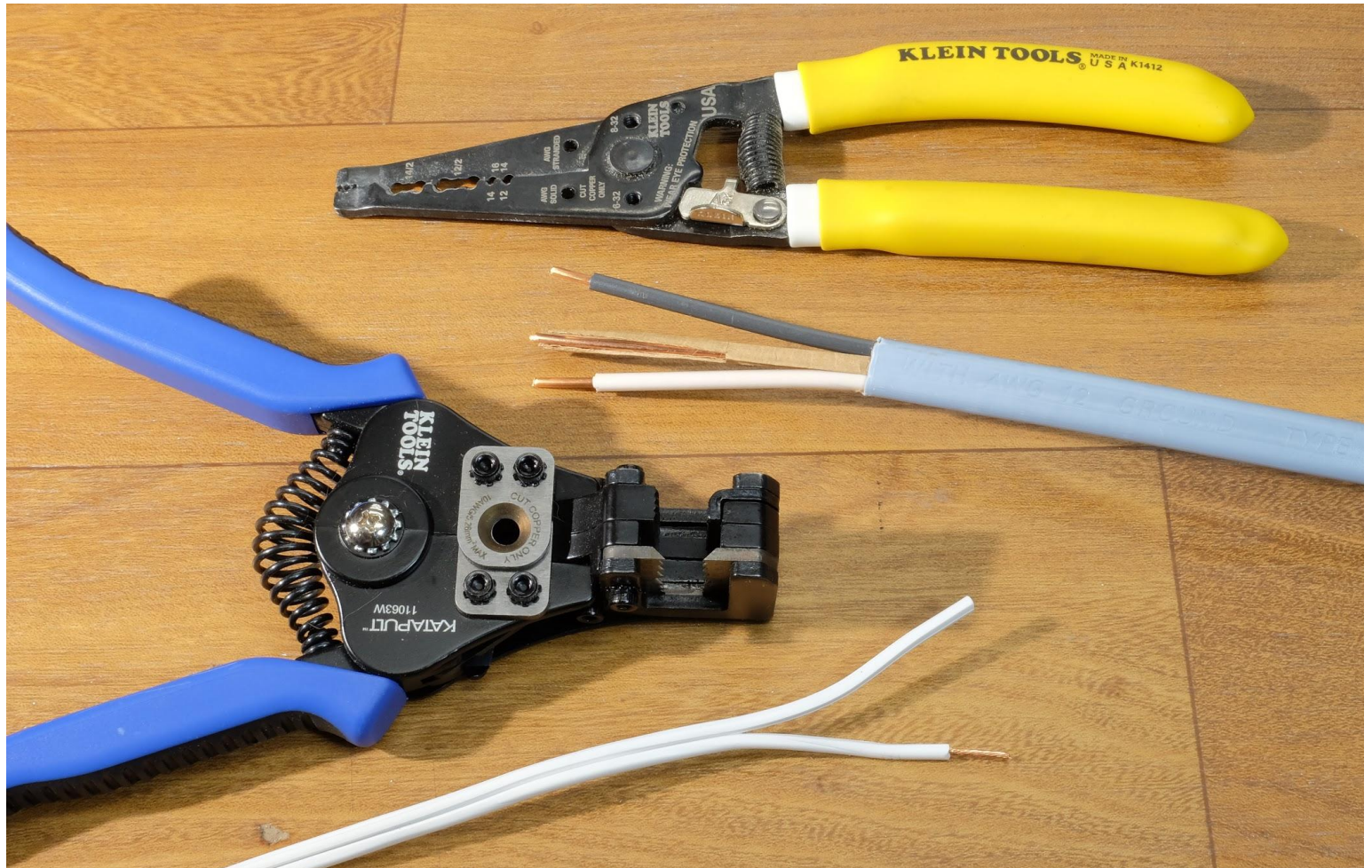






# Tools for NM cable

## Wire Strippers - Klein, Southwire ...



# Tools for MC (BX) cable

Southwire / Seatek Roto Split









# Knipex Cobra, Knipex Pliers Wrench





# Tools for cords

## Jonard, Knipex



# Others

- Folding jab saw
- Non-contact voltage tester
- Receptacle tester with GFCI test
- Insulated tools
- Torque Screwdriver
- Meters

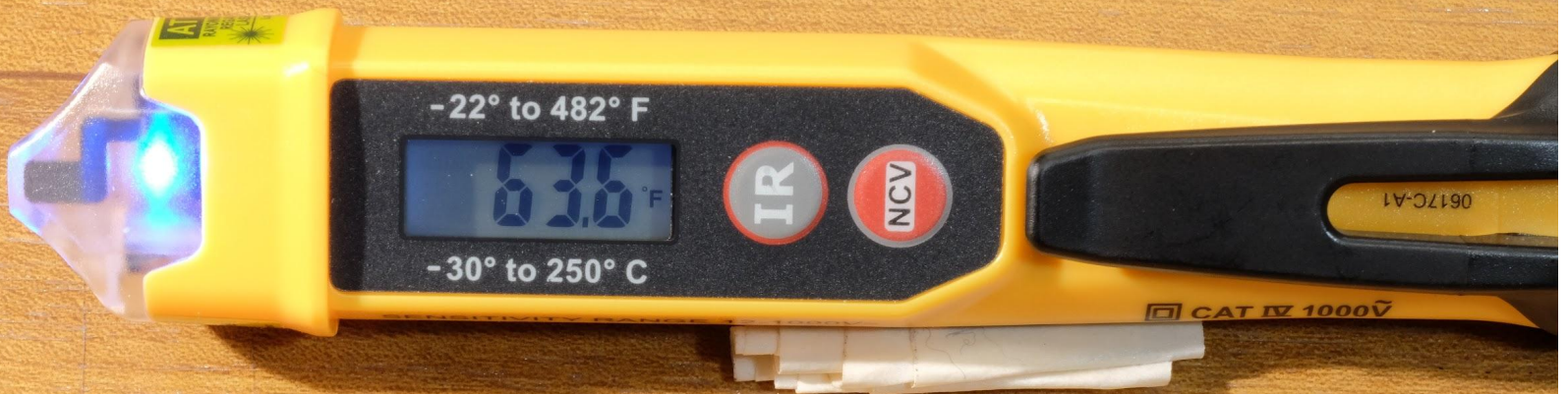


# Folding Jab Saw

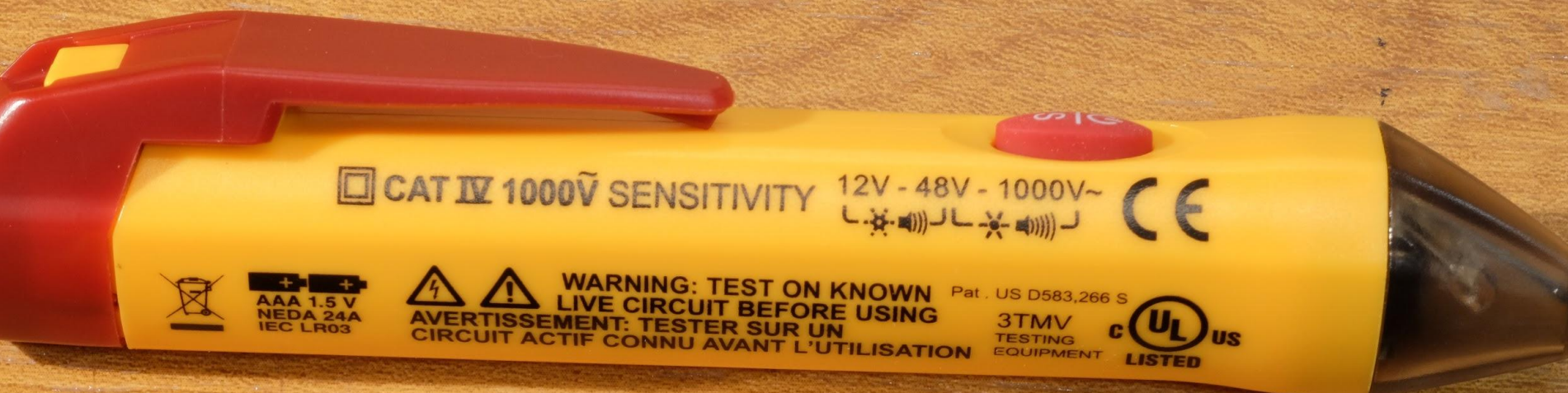






# Klein Non-contact Voltage Testers







 **CAT IV 1000Ṽ SENSITIVITY** 12V - 48V - 1000V~ 



  
AAA 1.5 V  
NEDA 24A  
IEC LR03



**WARNING: TEST ON KNOWN  
LIVE CIRCUIT BEFORE USING**  
**AVERTISSEMENT: TESTER SUR UN  
CIRCUIT ACTIF CONNU AVANT L'UTILISATION**

Pat. US D583,266 S

3TMV  
TESTING  
EQUIPMENT  **US  
LISTED**



SENSITIVITY RANGE 12-1000V~



Conforms to UL Std  
61010-1, 61010-2-030  
Certified to CSA Std  
C22.2 No. 61010-1,  
No. 61010-2-030

 **US**  
Intertek  
5000573



**WARNING: TEST ON KNOWN  
LIVE CIRCUIT BEFORE USING**  
**AVERTISSEMENT: TESTER SUR  
UN CIRCUIT ACTIF CONNU  
AVANT L'UTILISATION**

Pat # D750,985



  
AAA 1.5 V  
NEDA 24A  
IEC LR03



# Klein Receptacle Tester GFCI and correct wiring





# Insulated tools - Wiha, Knipex, Klein ...







1000 V  
IEC 60900 I 16

13 88 8

Made in  
GERMANY

⚠ WARNING  
WEAR EYE PROTECTION  
SWITCH OFF POWER

MADE IN GERMANY 1000V IEC 60900



1000 V

ASTM F1505-10



KNIPLEX

1000V

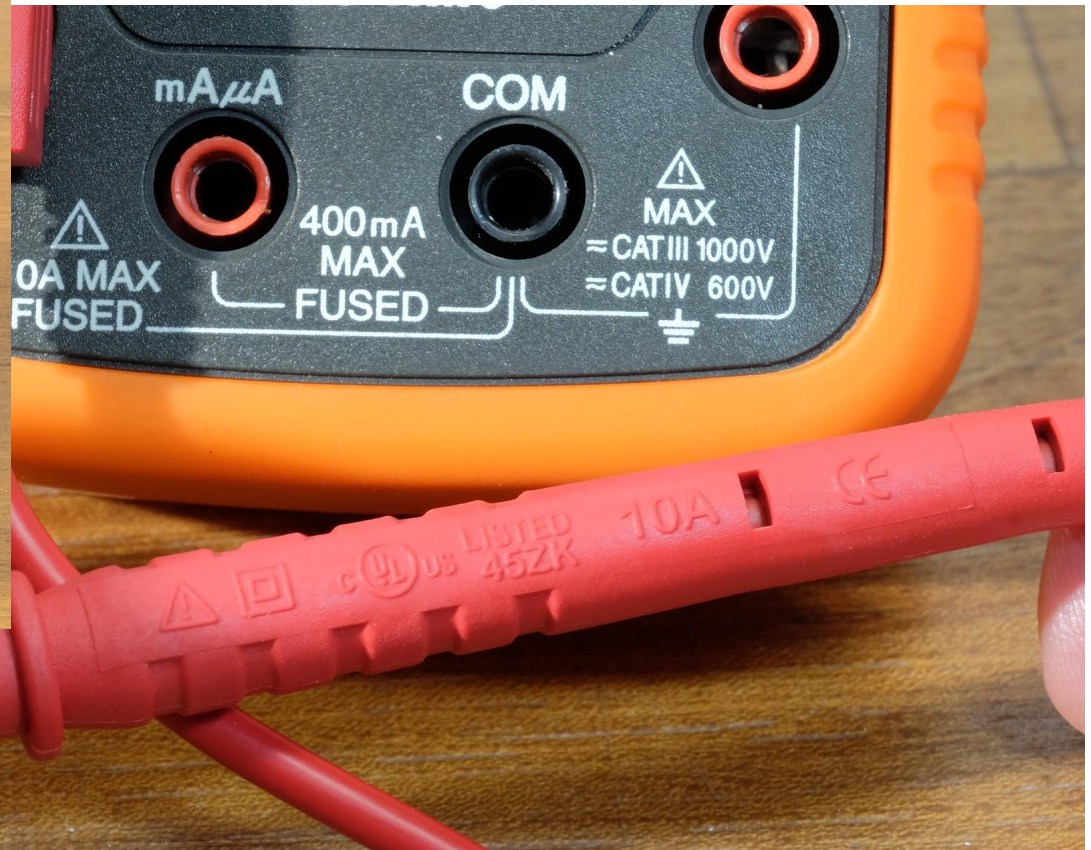
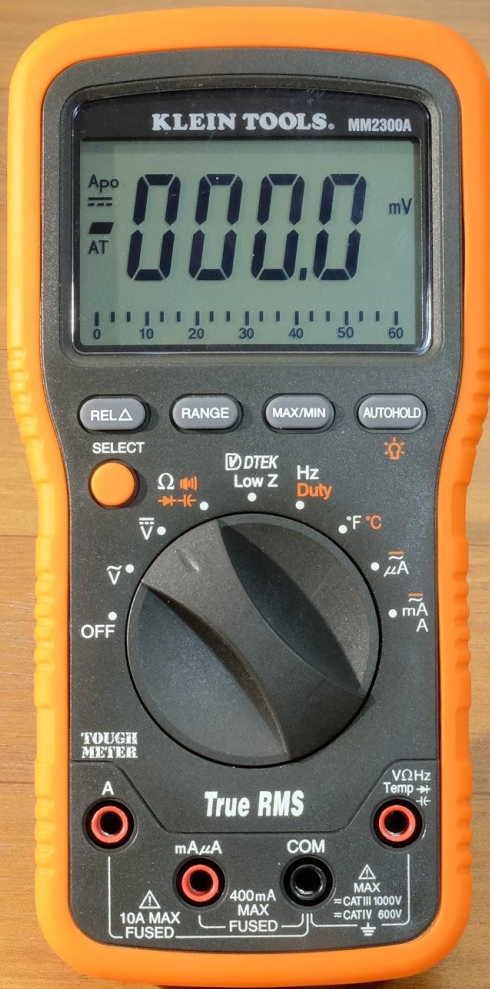


# Wiha Torque Screwdriver





# Klein Multimeter





# Fluke Ammeter / Voltmeter



# Summary

- Be safe
- Just like woodworking - there are specialty tools for every trade