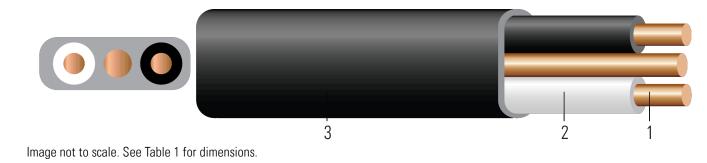


# **NMWU** Copper

Copper Conductors, 300V / -40°C MIN, 60°C MAX, PVC Insulation, PVC Jacket



## **CONSTRUCTION:**

- 1. **Conductor:** Bare copper per ASTM B3. Sizes #14 AWG #10 AWG are solid. Sizes #8 AWG #2 AWG are Class B compressed stranded per ASTM B8.
- 2. Insulation: All phases are insulated with heat-resistant thermoplastic polyvinyl chloride (PVC) insulation
- 3. Jacket: Polyvinyl Chloride (PVC) jacket. Sunlight, moisture, and fungus-resistant
- Conductor Colors: 2/C Black, White
- Conductor Colors: 3/C Black, Red, White

## **APPLICATIONS AND FEATURES:**

Southwire's CSA-NWMU cables may be used for underground installations, including direct burial. It may also be used for environments exposed to the weather in dry and wet locations. The maximum allowable conductor temperature is 60°C. The minimum recommended installation temperature is -40°C for two-conductor cables (sizes AWG 14 to AWG 6) and -25°C for all other sizes. For three-conductor cables the minimum recommended installation temperature is -10°C (with suitable handling procedures). Material should be properly stored above 0°C for 24 hours prior to installation. The maximum voltage rating for all intended applications is 300 volts. Consult the Canadian Electrical Code for further information related to applications.

#### **SPECIFICATIONS:**

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- CSA C22.2 No. 48 non-metallic sheathed cable
- FT1 Flame Test (1,706 BTU/Hr nominal Vertical Wire Flame Test)

# SAMPLE PRINT LEGEND:

SOUTHWIRE LL90458 MASTER-DESIGN CSA XX AWG CU XX CDRS NMWU 300 VOLTS FT1

Stock Number	Cond. Size	Conductor Number	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Ground Size	Jacket Thickness	Approx. OD	Copper Weight	Overall Weight	
	AWG/ Kcmil		inch		mils	No. x AWG	mil	inch	lbs/1000ft	lbs/1000ft	
14 AWG   Solid											
471847◊	14	2	0.064	Solid	60	1 x 14	30	0.244x0.492	37	88	

# Table 1 – Weights and Measurements



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All dimensions are nominal and subject to normal manufacturing tolerances  $\Diamond$  Cable marked with this symbol is a standard stock item

## **Table 2 – Electrical and Engineering Data**

Cond. Size AWG/ Kcmil	Conductor Number	Min. Bend Radius Inches	DC Resistance at 25°C Ω/1000ft	AC Resistance at 75°C Ω/1000ft	Inductive Reactance @ 60Hz Ω/1000ft	Allowable Ampacity Raceway 75°C Amp	Allowable Ampacity Raceway 90°C Amp	
14 AWG   Solid   14 2 2.000 2.631 3.170 0.058 20 25								

\* Ampacity values based on Canadian Electrical Code, Part 1 2024 Table 2 and do not take into account the overcurrent protection limitations in CEC Rule 14-104(2) of 15 A for 14 AWG Cu, 20 A for 12 AWG Cu, and 30 A for 10 AWG Cu (independent of the conductor temperature rating and stranding). See also CEC Rules 4-004 and 4-006 for additional requirements.

\* Inductive impedance is based on non-ferrous conduit with one diameter spacing center-to-center.

