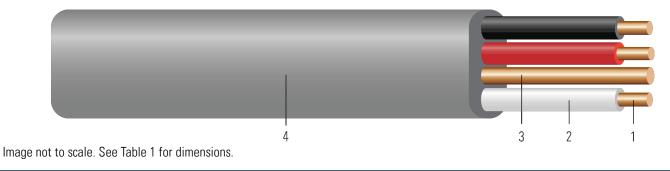


# **UF-B Copper Cable**

Underground Feeder and Branch-Circuit Cable. 600 Volt. Copper Conductors. PVC Insulation/Nylon Sheath. Sunlight, Moisture, and Fungus Resistant Overall PVC Jacket.



#### **CONSTRUCTION:**

- 1. **Conductor:** Solid soft drawn bare copper per ASTM B3 or class B compressed stranded soft drawn bare copper per ASTM B8
- 2. Insulation: All phases and neutral are insulated with Polyvinyl Chloride (PVC) with Nylon Sheath
- 3. Ground: Solid soft drawn bare copper
- 4. Jacket: Gray Polyvinyl Chloride (PVC) jacket. Sunlight, moisture and fungus resistant.

## **APPLICATIONS AND FEATURES:**

Southwire® copper UF-B cable is generally used as a feeder to outside post lamps, pumps, and other loads or apparatuses fed from a distribution point in an existing building as specified in the National Electrical Code®. UF-B cable may be used underground, including direct burial. Multiple conductor UF-B cable may be used for interior branch circuit wiring in residential or agricultural buildings at conductor temperatures not to exceed 90°C (with ampacity limited to that for 60°C conductors) as specified by the National Electrical Code. UF-B can be used in applications permitted for NMC in Section 334.10(B) of the National Electrical Code. Voltage rating for UF-B cable is 600 volts.

### **SPECIFICATIONS:**

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 493 Thermoplastic-Insulated Underground Feeder and Branch-Circuit Cables
- RoHS-2 (European Directive 2011/65/EU)
- NEC National Electrical Code NFPA 70

### **SAMPLE PRINT LEGEND**:

SOUTHWIRE E30445 (UL) XX AWG CU X CDR WITH XX AWG GROUND TYPE UF-B 600 VOLTS SUNLIGHT RESISTANT

#### Cond Stock Conductor **Diameter Over** Conductor Jacket Copper Insulation Ground **Overall** Approx. OD Number Size Thickness. Weight Weight Number Conductor Stranding Thickness Size AWG/ No. x lbs/1000ft lbs/1000ft inch mils mil inch AWG Kcmil 10 AWG | Solid 1305910 10 3 0.101 Solid 25 1x10 30 0.215x0.727 122 190

 Table 1 – Weights and Measurements

All dimensions are nominal and subject to normal manufacturing tolerances



Southwire Company, LLC | One Southwire Drive, Carrollton, GA 30119 | www.southwire.com



◊ Cable marked with this symbol is a standard stock item

TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

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

Cond. Size	Conductor Number	Min. Bend Radius	Max Pull Tension	DC Resistance at 25°C	AC Resistance at 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity Raceway 75°C	Allowable Ampacity Raceway 90°C
AWG/ Kcmil		Inches	Lbs	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
10 AWG   Solid								
10	3	2.9	249	1.040	1.253	0.050	35	40

\* Ampacities based upon 2023 NEC section 340.80 and Table 310.16. See Also NEC section 310.15 for additional requirements.

