

Copper UF-B

Underground Feeder and Branch Circuit Cable. 600 Volt. Copper Conductors. Sunlight, Moisture, and Fungus Resistant Overall PVC Jacket.

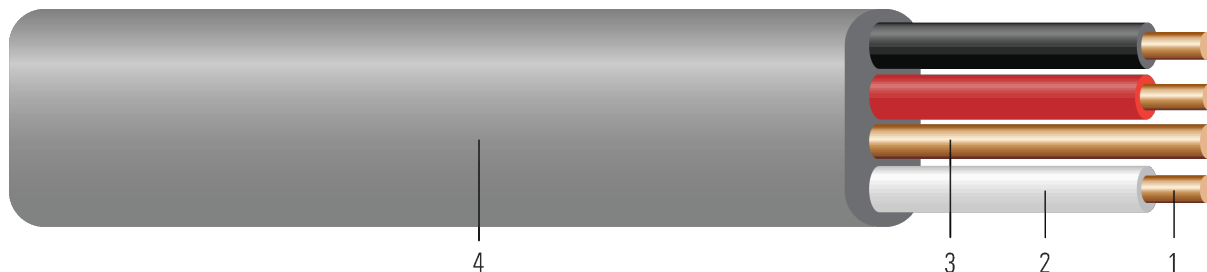


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Solid per ASTM B3 or Combination unilay-stranded copper conductors per ASTM B787.
2. **Insulation:** All phases are insulated with Polyvinyl Chloride with Nylon Sheath
3. **Ground:** Bare soft annealed ground
4. **Jacket:** Gray Polyvinyl Chloride PVC jacket. Sunlight, moisture and fungus resistant.

APPLICATIONS AND FEATURES:

Southwire® copper UF-B cable is generally used as feeder to outside post lamps, pumps, and other loads or apparatus fed from a distribution point in an existing building as specified in the 2011 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 Standard Specification for Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 83 Thermoplastic Insulated Wires and Cables
- REACH/RoHS-2 (Chemical Limit) Compliant

SAMPLE PRINT LEGEND:

SOUTHWIRE SIMpull(TM) E23919 MASTER-DESIGN (UL) (XX AWG OR KCMIL) X,XXmm² CU TYPE THWN-2 OR THHN 600 VOLTS GR II PR II VW-1 OR AWM --- c(UL) T90 NYLON OR TWN75 600 VOLTS FT1 NOM-ANCE 90(D)C --- RoHS PAT
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Table 1 – Weights and Measurements

Stock Number	Cond. Size AWG/Kcmil	Conductor Number	Conductor Stranding	Insulation Thickness mils	Ground Size No. x AWG	Approx. OD inch	Overall Weight lbs/1000ft
281642◇	14	2	Solid	20	1x14	0.168x0.423	70
270835◇	14	3	Solid	20	1x14	0.168x0.581	97
277574◇	12	2	Solid	20	None	0.183x0.386	71
263483◇	12	2	Solid	20	1x12	0.183x0.463	96
640359◇	12	3	Solid	20	None	0.183x0.581	109
270843◇	12	3	Solid	20	1x12	0.183x0.626	131
267013◇	10	2	Solid	25	1x10	0.215x0.518	138
130757◇	10	3	Solid	25	1x10	0.215x0.727	190
270827◇	8	2	7	35	1x10	0.302x0.678	222
130765◇	8	3	7	35	1x10	0.319x1.059	344
277558◇	6	2	7	35	1x10	0.338x0.770	303
130773◇	6	3	7	35	1x10	0.361x1.223	479

All dimensions are nominal and subject to normal manufacturing tolerances

◇ Cable marked with this symbol is a standard stock item

Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size AWG/Kcmil	DC Resistance at 25°C Ω/1000ft	AC Resistance at 75°C Ω/1000ft	Allowable Ampacity Raceway 60°C [†] Amp	Allowable Ampacity Raceway 75°C [†] Amp	Allowable Ampacity Raceway 90°C [†] Amp
281642◇	14	2.631	3.170	15	20	25
270835◇	14	2.631	3.170	15	20	25
277574◇	12	1.662	2.002	20	25	30
263483◇	12	1.662	2.002	20	25	30
640359◇	12	1.662	2.002	20	25	30
270843◇	12	1.662	2.002	20	25	30
267013◇	10	1.040	1.253	30	35	40
130757◇	10	1.040	1.253	30	35	40
270827◇	8	0.653	0.786	40	50	55
130765◇	8	0.653	0.786	40	50	55
277558◇	6	0.411	0.495	55	65	75
130773◇	6	0.411	0.495	55	65	75

[†] Ampacities based upon 2023 NEC Table 310.16 and do not take into account the overcurrent protection limitations in NEC 240.4(D) of 15 Amps for 14 AWG CU, 20 Amps for 12 AWG CU, and 30 Amps for 10 AWG CU (independent of the conductor temperature rating and stranding). Also, see NEC sections 310.15 and 110.14(C) for additional requirements.

