

Copper UF-B Cable

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

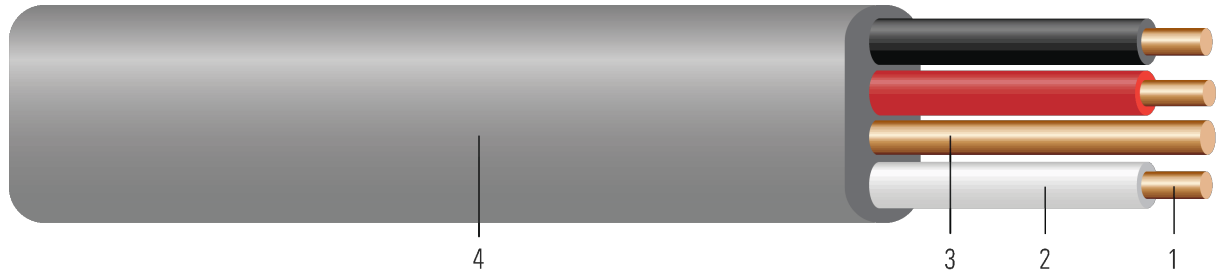


Image not to scale. See Table 1 for dimensions.

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



Table 1 – Weights and Measurements

Stock Number	Cond. Size	Conductor Number	Conductor Stranding	Insulation Thickness	Ground Size	Jacket Thickness	Approx. OD	Copper Weight	Overall Weight
	AWG/Kcmil			mils	No. x AWG	mil	inch	lbs/1000ft	lbs/1000ft
130542◇	14	2	Solid	20	1x14	30	0.168x0.423	37	70
130575◇	14	3	Solid	20	1x14	30	0.168x0.581	49	97
130492◇	12	2	Solid	20	None	30	0.183x0.386	39	71
130559◇	12	2	Solid	20	1x12	30	0.183x0.463	59	96
130526◇	12	3	Solid	20	None	30	0.183x0.581	59	109
130583◇	12	3	Solid	20	1x12	30	0.183x0.626	79	131
130567◇	10	2	Solid	25	1x10	30	0.215x0.518	91	138
130591◇	10	3	Solid	25	1x10	30	0.215x0.727	122	190
208587◇	8	2	7	35	1x10	45	0.302x0.678	132	222
147835◇	8	3	7	35	1x10	45	0.319x1.059	183	344
214692◇	6	2	7	35	1x10	45	0.338x0.770	192	303
147827◇	6	3	7	35	1x10	45	0.361x1.223	273	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

Cond. Size	Conductor Number	DC Resistance at 25°C	AC Resistance at 75°C	Allowable Ampacity Raceway 60°C
AWG/Kcmil		Ω/1000ft	Ω/1000ft	Amp
14	2	2.57	3.17	15
14	3	2.57	3.17	15
12	2	1.62	2.002	20
12	2	1.62	2.002	20
12	3	1.62	2.002	20
12	3	1.62	2.002	20
10	2	1.02	1.253	30
10	3	1.02	1.253	30
8	2	0.653	0.786	40
8	3	0.653	0.786	40
6	2	0.411	0.495	55
6	3	0.411	0.495	55

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

