QWIK Strip UF-B Copper Cable

Clean cuts. Fast installs. Fewer mistakes. All built into the jacket.
Underground Feeder Cable. 600 Volt. Sunlight, Moisture and Fungus Resistant Overall PVC Jacket

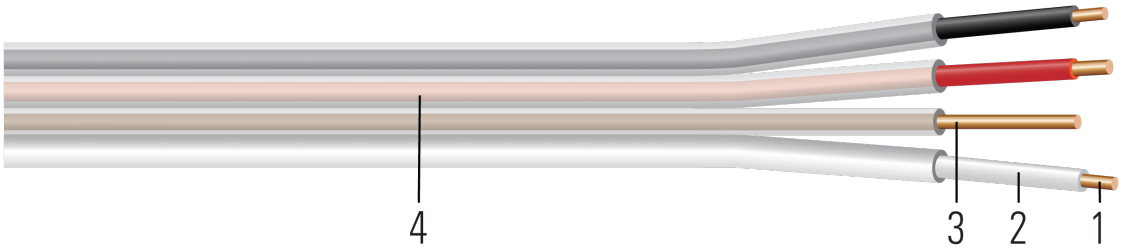


Image not to scale. See Table 1 for dimensions.

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:** Easy to strip white Polyvinyl Chloride (PVC) jacket. Sunlight, moisture and fungus resistant.

APPLICATIONS AND FEATURES:

Southwire® UF-B Copper Cable with Qwik Strip™ Jacket is engineered for clean cuts, fast installs, and fewer mistakes. Precision-engineered grooves along the outer jacket serve as visual and physical cut guides, enabling accurate terminations with greater consistency and efficiency—no specialty tools required, and with reduced risk of conductor damage or installer injury compared to standard UF-B. This cable is ideal for use as a feeder to outdoor post lamps, pumps, and other loads or apparatuses fed from a distribution point in an existing building, as specified in the National Electrical Code® (NEC). It is approved for underground use, including direct burial, and may also be used for interior branch circuit wiring in residential or agricultural buildings at conductor temperatures not exceeding 90°C (with ampacity limited to that for 60°C conductors), per NEC guidelines. UF-B is also permitted in applications outlined for NMC in NEC Section 334.10(B). Voltage rating: 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 QWIK STRIP(TM) UF-B E30445 (UL) XX AWG CU X CDR WITH XX AWG GROUND 600 VOLTS SUNLIGHT RESISTANT. WWW.PATENTSW.COM. PAT. PEND.

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Table 1 – Weights and Measurements

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 Strands										
458374◊	14	2	0.064	SOLID	16	1x14	30	0.488x0.183	37	70
458377◊	14	3	0.064	SOLID	16	1x14	30	0.668x0.183	50	97
12 AWG | SOLID Strands										
458375◊	12	2	0.081	SOLID	16	1x12	30	0.539x0.200	59	97
458376◊	12	3	0.081	SOLID	16	1x12	30	0.736x0.200	79	133
10 AWG | SOLID Strands										
458378◊	10	2	0.102	SOLID	21	1x10	30	0.622x0.231	92	140
458379◊	10	3	0.102	SOLID	21	1x10	30	0.849x0.231	123	190

All dimensions are nominal and subject to normal manufacturing tolerances
◊ 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	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	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
14 AWG | SOLID Strands							
14	2	0.7	2.631	3.265	0.058	20	25
14	3	0.7	2.631	3.265	0.058	20	25
12 AWG | SOLID Strands							
12	2	0.8	1.662	2.063	0.054	25	30
12	3	0.8	1.662	2.063	0.054	25	30
10 AWG | SOLID Strands							
10	2	0.9	1.04	1.291	0.05	35	40
10	3	0.9	1.04	1.291	0.05	35	40

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 if size is present in table). Also, see NEC sections 310.15 and 110.14(C) for additional requirements.

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