# 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

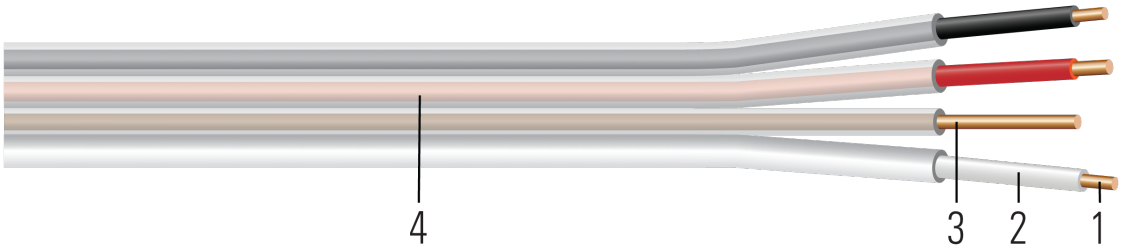


Image not to scale. See Table 1 for dimensions.

## 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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