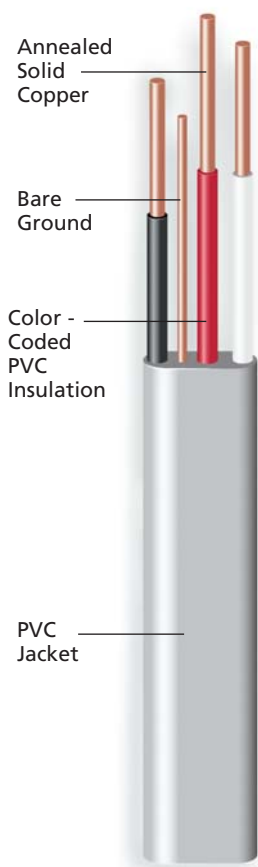


# TYPE UF-B COPPER CONDUCTOR

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## Engineering Specifications:

### Standards:

Underwriters Laboratories Standard UL-83, UL-493 Federal Specification A-A-59544  
 ASTM-B3 and B8  
 National Electrical Code (NEC)



Listed E-123776

### Construction:

#### Conductors:

Solid 14-10 AWG soft, uncoated copper per ASTM-B3  
 Stranded 8 AWG conductor and larger uncoated per ASTM-B8

#### Insulation:

Color-coded Polyvinyl Chloride (PVC) compound meeting the required thickness of type THHN or THWN with a heat-stabilized Nylon rated for 90°C in dry or 75°C in wet locations.

#### Grounding Conductor:

Soft, uncoated copper per ASTM-B3 and or B8

#### Applications:

Type UF-B (Underground Feeder Cable) has a broad range of usage, as defined in Articles 340 of the National Electrical Code (NEC). Type UF-B may be installed as interior wiring in wet, dry, or corrosive locations at temperatures not to exceed 90°C (with ampacity limited to that for 60°C conductors) as specified by the National Electrical Code. Type UF-B may be used underground, including direct burial or where exposed to direct rays of the sun. Type UF-B may also be used in applications permitted for type NM-C construction as specified in Article 334.10 B of the NEC. Maximum voltage rating for UF-B is 600 volts.

#### Assembly:

2- and 3-conductor constructions have the insulated conductors laid parallel. When a ground wire is present, it is laid in a valley between the insulated conductors.

#### Jacket:

A gray, color-coded PVC jacket is applied over the completed assembly.

| Size (AWG) and Number of Conductors | Number of Strands | Ground Wire Size (AWG) | Insulation Thickness (inches) |       | Jacket Thickness (inches) | Allowable Ampacity* (amps) | Outside Diameter (inches) | Approx. Net Weight (lbs./1000 ft.) | Standard Packaging  |
|-------------------------------------|-------------------|------------------------|-------------------------------|-------|---------------------------|----------------------------|---------------------------|------------------------------------|---|
|                                     |                   |                        | PVC                           | Nylon |                           |                            |                           |                                    |   |
| <b>With Ground</b>                  |                   |                        |                               |       |                           |                            |                           |                                    |   |
| 14/2G                               | Solid             | 14                     | .015                          | .004  | .030                      | 15                         | .185 x .385               | 53                                 | 250' EZ, 500' 1000' 5000' reels, 25' 50' 100' boxes available |
| 12/2G                               | Solid             | 12                     | .015                          | .004  | .030                      | 20                         | .195 x .415               | 75                                 | 250' EZ, 500' 1000' 2500' 4000' reels, 100' carton            |
| 10/2G                               | Solid             | 10                     | .020                          | .004  | .030                      | 30                         | .230 x .460               | 140                                | 50' EZ, 500' 1000' 2500' 5000' reels, 25' 50' 100' carton     |
| 8/2G                                | 7                 | 10                     | .030                          | .005  | .045                      | 40                         | .320 x .620               | 213                                | 125' 250' EZ, 500' 1000' 2500' reels                          |
| 6/2G                                | 7                 | 10                     | .030                          | .005  | .045                      | 55                         | .385 x .800               | 305                                | 125' EZ, 250' 500' 1000' 2500' reels                          |
| 14/3G                               | Solid             | 14                     | .015                          | .004  | .030                      | 15                         | .185 x .575               | 93                                 | 250' EZ, 500' 1000' 5000' reels                               |
| 12/3G                               | Solid             | 12                     | .015                          | .004  | .030                      | 20                         | .195 x .620               | 134                                | 250' EZ, 500' 1000' 5000' reels, 50' 100' carton              |
| 10/3G                               | Solid             | 10                     | .020                          | .004  | .030                      | 30                         | .230 x .690               | 194                                | 250' EZ, 500' 1000' 5000' reels, 25' 50' 100' carton          |
| 8/3G                                | 7                 | 10                     | .030                          | .005  | .045                      | 40                         | .320 x .990               | 330                                | 125' 250' EZ, 500' 1000' 2500' 5000' reels                    |
| 6/3G                                | 7                 | 10                     | .030                          | .005  | .045                      | 55                         | .385 x 1.200              | 449                                | 125' 250' EZ, 500' 1000' 2500' 5000' reels                    |
| <b>Without Ground</b>               |                   |                        |                               |       |                           |                            |                           |                                    |   |
| 14/2P                               | Solid             | -                      | .015                          | .004  | .030                      | 15                         | .185 x .385               | 54                                 | 250' EZ, 1000' 5000' reels                                    |
| 12/2P                               | Solid             | -                      | .015                          | .004  | .030                      | 20                         | .195 x .415               | 75                                 | 250' EZ, 1000' 5000' reels                                    |
| 10/2P                               | Solid             | -                      | .020                          | .004  | .030                      | 30                         | .230 x .460               | 105                                | 250' EZ, 500' 1000' 5000' reels                               |
| 14/3P                               | Solid             | -                      | .015                          | .004  | .030                      | 15                         | .185 x .575               | 85                                 | 250' 1000' 5000' reels,                                       |
| 12/3P                               | Solid             | -                      | .015                          | .004  | .030                      | 20                         | .195 x .620               | 117                                | 250' 1000' 5000' reels,                                       |
| 10/3P                               | Solid             | -                      | .020                          | .004  | .030                      | 30                         | .230 x .690               | 165                                | 250' 500' 1000' 5000' reels,                                  |
| 8/3P                                | 7                 | -                      | .030                          | .005  | .045                      | 40                         | .320 x .990               | 311                                | 125' EZ, 500' 1000' 5000' reels,                              |
| 6/3P                                | 7                 | -                      | .030                          | .005  | .045                      | 55                         | .385 x 1.200              | 425                                | 125' EZ, 500' 1000' 2500' 5000' reels,                        |
| 8/2P                                | 7                 | -                      | .030                          | .005  | .045                      | 40                         | .320 x .640               | 183                                | 125' EZ, 500' 1000' 2500' reels                               |
| 6/2P                                | 7                 | -                      | .030                          | .005  | .045                      | 55                         | .385 x .770               | 257                                | 125' EZ, 500' 1000' 2500' reels                               |

\*Allowable ampacity shown above is per the National Electrical Code. The above data is approximate and subject to normal manufacturing tolerances.