

ENGINEERING SPECIFICATIONS

Standards

Underwriters Laboratories Standards UL-83, UL-493, UL-1581, UL-2556; Federal Specification A-A-59544; ASTM-B3 and B8; NEMA RV 2-2011; NFPA 70 (NEC®) Article 340; ARRA 2009 Section 1605 "Buy American" Compliant; RoHS Compliant; MasterSpec Division 26 Sections 260519, 260523; UL Listing #E-123776



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-2 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

Jacket

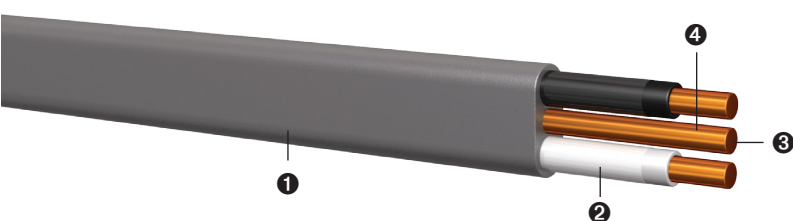
A gray, sunlight- and fungus-resistant PVC jacket

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.

APPLICATIONS

Type UF-B (Underground Feeder Cable) has a broad range of usage as defined in Article 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 NEC. Type UF-B may be used where exposed to direct rays of the sun or underground, including direct burial. Type UF-B may also be used in applications permitted for Type NM-C construction as specified in Section 334.10(B) of the NEC. Maximum voltage rating for Type UF-B is 600 volts.



- 1 PVC Jacket
- 2 Color-Coded PVC Insulation
- 3 Bare Ground
- 4 Annealed Solid Copper Conductor

| Size (AWG) | No. of Strands | Ground Wire Size (AWG) | Insulation Thickness (in) | | Jacket Thickness (in) | Allowable Ampacity (Amps) ¹ | Outside Diameter (in) | Approximate Net Weight (lbs/1000 ft) | Standard Packaging (ft) |
|------------|----------------|------------------------|---------------------------|-------|-----------------------|--|-----------------------|--------------------------------------|--|
| | | | PVC | Nylon | | | | | |
| 14/2 G | Solid | 14 | 0.015 | 0.004 | 0.030 | 15 | 0.185 x 0.385 | 53 | 25' 50' 100' 250' EZ, 500' 1000' 5000' Reels |
| 12/2 G | Solid | 12 | 0.015 | 0.004 | 0.030 | 20 | 0.195 x 0.415 | 75 | 25' 50' 100' 250' EZ, 500' 1000' 2500' 5000' Reels |
| 10/2 G | Solid | 10 | 0.020 | 0.004 | 0.030 | 30 | 0.230 x 0.460 | 140 | 25' 50' 100' 250' 500' 1000' 2500' 5000' Reels |
| 8/2 G | 7 | 10 | 0.030 | 0.005 | 0.045 | 40 | 0.320 x 0.620 | 213 | 125' 250' EZ, 500' 1000' 2500' Reels |
| 6/2 G | 7 | 10 | 0.030 | 0.005 | 0.045 | 55 | 0.385 x 0.800 | 305 | 125' EZ, 500' 1000' 2500' Reels |
| 14/3 G | Solid | 14 | 0.015 | 0.004 | 0.030 | 15 | 0.185 x 0.585 | 93 | 25' 50' 100' 250' EZ, 500' 1000' 5000' Reels |
| 12/3 G | Solid | 12 | 0.015 | 0.004 | 0.030 | 20 | 0.195 x 0.620 | 134 | 25' 50' 100' 250' EZ, 500' 1000' 5000' Reels |
| 10/3 G | Solid | 10 | 0.020 | 0.004 | 0.030 | 30 | 0.230 x 0.690 | 194 | 25' 50' 100' 250' EZ, 500' 1000' 5000' Reels |
| 8/3 G | 7 | 10 | 0.030 | 0.005 | 0.045 | 40 | 0.320 x 0.990 | 330 | 125' 500' 1000' 2500' Reels |
| 6/3 G | 7 | 10 | 0.030 | 0.005 | 0.045 | 55 | 0.385 x 1.200 | 449 | 125' 500' 1000' 2500' Reels |

¹ Ampacity of conductors are based on NFPA 70 (NEC) Table 310.15(B)(16). See 110.14(C), 240.4(D) and 310.15(B) for other limitations where applicable.

Note: Additional ampacity limitations, adjustments or corrections may apply per 310.15 and 240.4 of the NEC.

The above data is approximate and subject to normal manufacturing tolerances.

PRINT LEGEND: ENCORE WIRE CORPORATION (size) WITH GROUND TYPE UF-B SUN-RES 600 VOLTS (UL) DATE/TIME/OPER/QC