

Type UF-B CCA Conductor

600V | Copperweld® Copper-Clad Aluminum (CCA) Building Wire



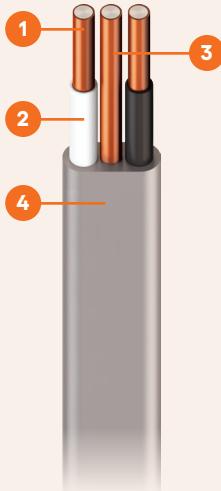
Engineering Specifications:

Standards: UL-83, UL-493, UL-1581, UL-2556, ASTM-B-566

Listings and Compliance: UL: E539738, ETL: 5021266, RoHS Compliant, REACH Compliant

Construction:

- Conductors** – UL recognized component (DVFV2); sizes 12-10 AWG: solid, annealed Copper-Clad Aluminum (CCA) with solid CCA ground
- Conductor Insulation** – Color-coded Polyvinyl Chloride (PVC) compound meeting the required thickness of Type THHN/THWN-2 with a heat-stabilized nylon jacket
- Grounding Conductor** – Sizes 12-10 AWG: ground is 12-10 AWG solid, annealed CCA
- UF-B Jacket** – 30-mil flame-retardant, moisture-resistant, sunlight-resistant PVC to safety listing standards; colored according to industry norms



- 1 Copperweld CCA conductor
- 2 THHN / THWN-2 insulation
- 3 Bare CCA Ground Wire
- 4 PVC jacket

Identification and Applications:

- Identification:** Copperweld® UF-B cable is identified for use with wiring devices, splice connectors and equipment terminals rated for CC, Cu, Cu/Al and CO/ALR. Copperweld® Copper-Clad Aluminum (CCA) is not dissimilar metallurgically to copper, brass or zinc-plated steel. Copperweld® CCA is dissimilar to aluminum for making electrical connections. If splicing with twist-on splice connectors, pre-twisting is not required. Copperweld® UF-B Cable is made with ASTM B-566 Copper-Clad Aluminum bare wire, which carries its own component listing, DVFV2, and is an NEC requirement.
- Applications:** Refer to Article 340 of the NEC.

Equivalent Copper Size	CCA Size (AWG)	No. of Strands	Ground Wire Size (Solid AWG)	Insulation Thickness (in)*		Outside Diameter (in)	Approx. Weight (lbs/1000 ft)	Allowable Amperage at 60°C
				PVC	Nylon			
14/2-G	12/2-G	1	12	0.015	0.004	0.181 x 0.448	56.5	15
14/3-G	12/3-G	1	12	0.015	0.004	0.181 x 0.675	80.5	15
12/2-G	10/2-G	1	10	0.020	0.004	0.212 x 0.525	81.2	25
12/3-G	10/3-G	1	10	0.020	0.004	0.212 x 0.754	110.8	25

Ampacity of UF-B conductors is based on NFPA 70 (NEC) Table 310.16 for a temperature rating of the conductors of 60°C according to article 340.80 (Ampacity for UF Cable).

* Jacket thickness for UF-B cable is 30 mils



Ordering Information:

CCA Size	Jacket Color	Standard Packaging *	Standard 48x48 Pallet Qty	Part Number **
12/2-G	Gray	250', 1000'	108/12	12/2UFB-1/1-A-BE-GY-[Ft]-[Pkg]
12/3-G	Gray	250', 1000'	81/12	12/3UFB-1/1-A-BE-GY-[Ft]-[Pkg]
10/2-G	Gray	250', 1000'	81/12	10/2UFB-1/1-A-BE-GY-[Ft]-[Pkg]
10/3-G	Gray	250', 1000'	54/12	10/3UFB-1/1-A-BE-GY-[Ft]-[Pkg]

* Other packaging options and denominations available on request. 250' is on plastic wrapped coils [PW]; 1000' is on wooden reels [WR].

** Part Number Legend: [Size/# of Circuit Cond.][Type]-[# of Strands Circuit Cond. / Ground Cond.]-A-BE-[Color]-[Length in Feet]-[Packaging]

- Color: Gray [GY]
- Standard Packaging [Pkg]: Plastic Wrapped Coils [PW], Wooden Reels [WR]