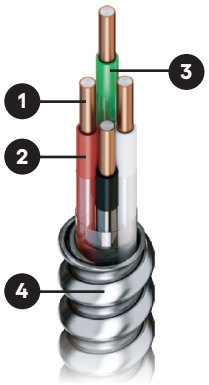
Type MC CCA Conductor

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

Engineering Specifications:

- **Standards:** UL-83, UL 1569, UL-1581, UL-2556, NFPA 70 (NEC®), ASTM-B-566
- **Listings and Compliance:** UL: E510284, E523379, E538020, ETL: 5021266
- **Construction:**
  - **Conductors** – Sizes 12-10 AWG: solid, annealed THHN/THWN-2 Copper-Clad Aluminum (CCA); Sizes 8 AWG and larger: stranded, annealed THHN/THWN-2 CCA; Grounding conductors; solid or stranded, annealed THHN/THWN-2 CCA defined by circuit conductor sizing.
  - **Conductor Insulation** – Color-coded Polyvinyl Chloride (PVC) compound meeting the required thickness of Type THHN/THWN-2 with a heat-stabilized nylon jacket rated for 90°C in dry locations
  - **Metal Clad Armor** – Lightweight aluminum interlocking armor
- **Identification:** Copperweld® MC 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 is not dissimilar metallurgically to copper, brass or zinc-plated steel. If splicing with twist-on splice connectors, pre-twisting is not required. Copperweld® MC Cable is made with ASTM B-566 Copper-Clad Aluminum bare wire, which carries its own component listing, DVVV2, and is an NEC requirement.
- **Applications:** Refer to Article 330 of the NEC.



1. Copperweld CCA conductor
2. THHN/THWN-2 insulation
3. Green insulated ground wire
4. Interlocking aluminum armor

CCA Size (AWG)	No. of Strands	Ground Wire Size	Armor Type	Insulation Thickness (in)*		Outside Diameter (in)	Approx. Weight (lbs/1000 ft)	CCA Allowable Amperage	
				PVC	Nylon			75° C	90° C
12/2-G	Solid	12	Aluminum	0.015	0.004	0.462	83	20	25
12/3-G	Solid	12	Aluminum	0.015	0.004	0.494	100	20	25
12/4-G	Solid	12	Aluminum	0.015	0.004	0.529	115	20	25
10/2-G	Solid	10	Aluminum	0.020	0.004	0.522	103	30	35
10/3-G	Solid	10	Aluminum	0.020	0.004	0.562	125	30	35
10/4-G	Solid	10	Aluminum	0.020	0.004	0.616	143	30	35
8/2-G	7	8	Aluminum	0.030	0.005	0.682	162	40	45
8/3-G	7	8	Aluminum	0.030	0.005	0.720	198	40	45
6/2-G	7	8	Aluminum	0.030	0.005	0.742	213	50	55
6/3-G	7	8	Aluminum	0.030	0.005	0.791	265	50	55
4/2-G	7	6	Aluminum	0.040	0.006	0.864	288	65	75
4/3-G	7	6	Aluminum	0.040	0.006	0.952	369	65	75

* Ampacity of conductors are based on the Copper-Clad Aluminum columns of NFPA 70 (NEC 2026) Table 310.16 and in accordance with section 330.80. See sections 110.14 and 240.4(D) for specific sizing limitations based upon electrical connection temperature ratings and circuit-size over-current protection values.

COPPERWELD® BUILDING WIRE

615-377-4200

buildingwire@copperweld.com

CW-ESPEC-BW-MC-V003-04.2026

Type MC CCA Conductor

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

Ordering Information:

CCA Size	Conductor Color Sequence*	Standard Packaging**	Part Number***
12/2-G	BK, WT, GR (G)	250', 1000' and 2500'	12/2MCA-1/1-CCA-A-[Ft]-[Pkg]
12/3-G	BK, WT, RD, GR (G)	250', 1000' and 2500'	12/3MCA-1/1-CCA-A-[Ft]-[Pkg]
12/4-G	BK, WT, RD, BL, GR (G)	250', 1000' and 2500'	12/4MCA-1/1-CCA-A-[Ft]-[Pkg]
10/2-G	BK, WT, GR (G)	250', 1000' and 2500'	10/2MCA-1/1-CCA-A-[Ft]-[Pkg]
10/3-G	BK, WT, RD, GR (G)	250', 1000' and 2500'	10/3MCA-1/1-CCA-A-[Ft]-[Pkg]
10/4-G	BK, WT, RD, BL, GR (G)	250' or 1000'	10/4MCA-1/1-CCA-A-[Ft]-[Pkg]
8/2-G	BK, WT, GR (G)	125', 500' and 1000'	8/2MCA-7/1-CCA-A-[Ft]-[Pkg]
8/3-G	BK, WT, RD, GR (G)	125', 500' and 1000'	8/3MCA-7/1-CCA-A-[Ft]-[Pkg]
6/2-G	BK, WT, GR (G)	125', 500' and 1000'	6/2MCA-7/1-CCA-A-[Ft]-[Pkg]
6/3-G	BK, WT, RD, GR (G)	125', 500' and 1000'	6/3MCA-7/1-CCA-A-[Ft]-[Pkg]
4/2-G	BK, WT, GR (G)	125', 500' and 1000'	4/2MCA-7/7-CCA-A-[Ft]-[Pkg]
4/3-G	BK, WT, RD, GR (G)	125', 500' and 1000'	4/3MCA-7/7-CCA-A-[Ft]-[Pkg]

* Insulation colors: Black (BK), White (WT), Red (RD), Blue (BL), Green (GR) unless otherwise noted. Other color combinations are available on request, including standard 480V colors.

** Packaging: Other packaging and denomination options are available on request.

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

- Standard Packaging [Pkg]: Hand Coils [C], Plastic Spools or Wooden Reels [RL]

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RoHS COMPLIANT

REACH COMPLIANT

CCA Safety Checked Initiative®