

Type MC CCA Conductor

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



Engineering Specifications:

Standards: UL-83, UL 1569, UL-1581, UL-2556, NFPA 70 (NEC®), ASTM-B-566

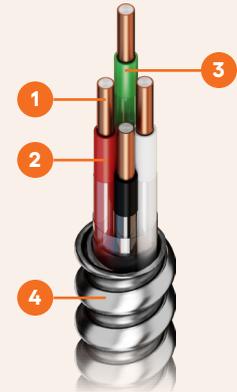
Listings and Compliance: UL: E510284, E523379, E538020; ETL: 5021266

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 and Applications:

- **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) Table 310.16. 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.



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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'	6/2MCA-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.

** 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]