

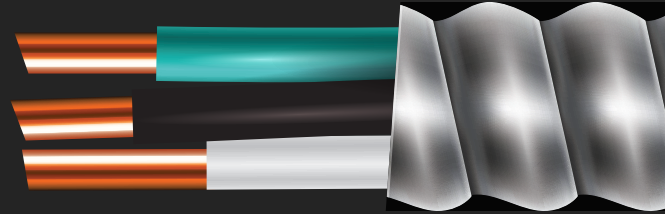
# Type MC Cables - THHN/THWN-2 (PVC/Nylon) Green Insulated Ground - 600 V Copper



Power Your Environment

## SCOPE / APPLICATION:

600Volt, multi conductor cable constructed with copper conductors, THHN/THWN-2 insulated conductors rated 90°C dry with an insulated ground, and an overall aluminum interlocking armor. Type MC Cables are primarily used for branch, feeder and service power circuits in commercial and industrial applications and for power, lighting, control and signal circuits per the National Electrical Code (NEC). Also, suitable for use in Class I Div. 2, Class II Div. 2, Class III Div. 1 Hazardous Locations.



## CONSTRUCTION PARAMETERS:

Conductor:	Fully annealed bare copper: Solid conductor per ASTM B3 Stranded conductor per ASTM B3 & ASTM B8
Insulation:	Extruded flame retardant, heat and moisture resistant colored Polyvinyl Chloride (PVC) compound.
Overall Jacket:	Extruded tough Polyamide (nylon) compound.
Color Code:	2 Conductor: Black / White 3 Conductor: Black / White / Red 4 Conductor: Black / White / Red / Blue
Ground:	THHN / THWN-2 insulated (Green)
Binder Tape:	Applied over the assembled conductors
Overall Armor:	Interlocked aluminum

## RATINGS / FEATURES:

- MC – Indicates a factory assembly of one or more insulated circuit conductors with or without optical fiber members enclosed in an armor of interlocking metal tape, or a smooth or corrugated metallic sheath.
- THHN – Indicates a single conductor having flame-retardant and heat-resistant thermoplastic insulation with a jacket of extruded nylon or equivalent material. The wire is rated 90°C dry only.
- THWN-2 – Indicates a single conductor having flame-retardant, moisture- and heat-resistant thermoplastic insulation with a jacket of extruded nylon or equivalent material. The wire is rated 90°C wet or dry.
- RoHS Compliant

## INDUSTRY STANDARDS / COMPLIANCES:

UL 1569	Metal-Clad Cables
UL 83	Standard for Safety Thermoplastic-Insulated Wires and Cables
UL 1581	Reference Standard for Electrical Wires, Cables, and Flexible Cords
ASTM B-3	Standard Specification for Soft or Annealed Copper Wire
ASTM B-8	Standard Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft
NEC, NFPA 70	National Electrical Code

Conductor Size (AWG or kcmil)	Conductor Type	Number of Conductors	Ground	Nominal OD (Inch)	Approx Net Weight (lbs/1000 ft.)	Allowable Ampacities(1) @30°C Ambient	
						75°C	90°C
14	Solid	2	14 AWG Green Insulated	0.423	85	20	25
14	Solid	3	14 AWG Green Insulated	0.450	102	20	25
14	Solid	4	14 AWG Green Insulated	0.481	121	20	25
12	Solid	2	12 AWG Green Insulated	0.471	112	25	30
12	Solid	3	12 AWG Green Insulated	0.496	138	25	30
12	Solid	4	12 AWG Green Insulated	0.525	170	25	30
10	Solid	2	10 AWG Green Insulated	0.528	160	35	40
10	Solid	3	10 AWG Green Insulated	0.567	200	35	40
10	Solid	4	10 AWG Green Insulated	0.610	242	35	40
8	Stranded	2	10 AWG Green Insulated	0.657	239	50	55
8	Stranded	3	10 AWG Green Insulated	0.709	311	50	55
8	Stranded	4	10 AWG Green Insulated	0.789	385	50	55
6	Stranded	2	8 AWG Green Insulated	0.734	337	65	75
6	Stranded	3	8 AWG Green Insulated	0.814	448	65	75
6	Stranded	4	8 AWG Green Insulated	0.889	564	65	75
4	Stranded	3	8 AWG Green Insulated	0.975	640	85	95
4	Stranded	4	8 AWG Green Insulated	1.073	820	85	95
2	Stranded	3	6 AWG Green Insulated	1.120	947	115	130
2	Stranded	4	6 AWG Green Insulated	1.232	1205	115	130

Dimensions and weights are nominal, subject to industry standards and manufacturing tolerances.

(1) Allowable ampacities shown are for general use as specified in the 2014 Edition of the National Electrical Code: Section 310.15 – Table 310.15(B)(16). Also, refer to Section 110.14(C), Section 240.4(D) and Section 310.15(B), as applicable.