

# Type MC THHN/THWN-2 Singles,

PVC/Nylon, Green Insulated Ground, 600 V Copper

## Features

UL Listed as MC.

Additional isolated ground

Single conductors are dual rated THHN/THWN-2, meeting 90 °C in Wet and Dry Locations.

All Singles meet the VW-1 flame test.

Insulation is rated Gas and Oil resistant II.

Cables is rated for CT use.

RoHS-2 Compliant.

Listed for use in UL 1, 2 and 3 Hour Through Penetration Firestop Systems C-AJ-310, C-AJ-3111, C-AJ-3112, W-L-3077, W-L-3078.

## Application

Where a redundant or isolated grounding paths are required.

For services, feeders, and branch circuits.

For power, lighting, control, and signal circuits.

Exposed or concealed.

In cable tray and approved raceway.

In dry locations and embedded in plaster finish on brick or other masonry except in damp or wet locations.

Per NEC 300.22 (C), in environmental air-handling spaces.

Class I Div. 2, Class II Div 2, & Class III Div. 1 Hazardous locations, in accordance with NEC.

## Standards

UL 1569

Metal Clad cables.

UL 83

Thermoplastic-Insulated Wires and cables.

UL 1685

Vertical-Tray Fire-Propagation and Smoke-Release Test for Electrical and Optical-Fiber Cables.

Federal Specification A-A-59544 (formerly J-C-30B).

## Specifications

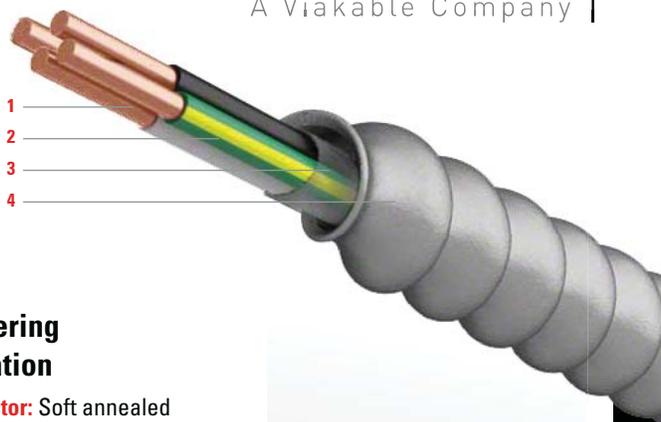
ICEA S-95-658/NEMA WC70

Maximum operating voltage:

- 600 volts

Maximum conductor operation temperatures:

- 90 °C Dry



## Engineering Information

**1. Conductor:** Soft annealed uncoated copper solid wire per ASTM B3.

**Sizes:** 12 AWG and 10 AWG.

Number of Conductors: 2 to 4.

**2. Insulation Circuit & Ground:** Flame retardant thermoplastic polyvinyl chloride (PVC) and nylon covering.

Conductor's & Grounds ID:

# Cdr.	Color Code			Ground	Isolated
2	Blk	Wht		Green	Green Yellow Stripes
3	Blk	Wht	Red	Green	Green Yellow Stripes
4	Blk	Wht	Red	Blue	Green Yellow Stripes

**3. Assembly:** Phase, insulated grounding and isolated ground and covering binder tape.

**4. Armor:** Aluminum interlocked armor, applied over the covering binder tape.

**Technical Data**

**600 V** Copper, PVC/Nylon, 2 Insulated Grounds, 90 °C

Conductor		Grounding		Approximate Outside Diameter inches	Approximate Net Weight Lbs/Mft
Size AWG / # Conductors	Solid or Stranded	Size AWG / # Grounds	Solid or Stranded		
12-2	Solid	12-2	Solid	0.50	135
12-3	Solid	12-2	Solid	0.53	162
12-4	Solid	12-2	Solid	0.57	190
10-2	Solid	10-2	Solid	0.58	199
10-3	Solid	10-2	Solid	0.62	242
10-4	Solid	10-2	Solid	0.67	285

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.

**Ampacities:** Refer to beginning of section.

Conductor Size AWG / # Conductors.	Package		
	Coil 250 ft	Reel (Size)	
		500 ft	1000 ft
12-3	X	24-11-10 3/4"	24-11-10 3/4"
12-4	X	24-11-10 3/4"	24-11-10 3/4"
10-3	X	24-11-10 3/4"	24-18-10 5/8"
10-4	X		24-18-10 5/8"

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. For packages not listed above please contact sales.