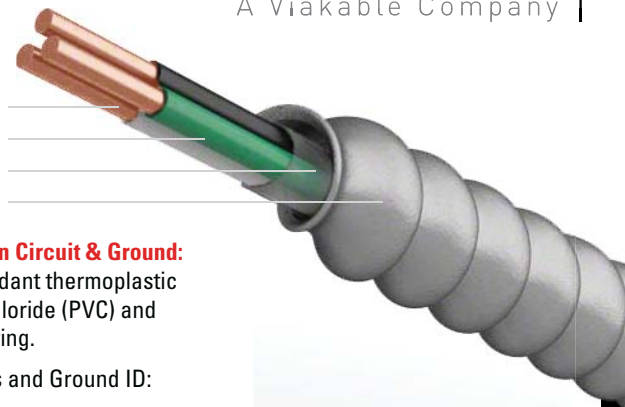


Type MC THHN/THWN-2 Singles

PVC/Nylon, Green Insulated Ground, 600 V Copper



A Viakable Company



Features

- UL Listed as MC.
- 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.
- 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

- 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, and 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, or soft annealed uncoated copper Class B or C concentric stranding or unilay (19 wires) per ASTM B8, or combination unilay per ASTM B787.
- Sizes:** 14 AWG up to 2 AWG.
- Number of Conductors:** 2 to 4.

2. Insulation Circuit & Ground:

Flame retardant thermoplastic polyvinyl chloride (PVC) and nylon covering.

Conductor's and Ground ID:

120 / 208V					
# Cdr.	Color Code				Ground
2	Blk	Wht			Gr
3	Blk	Wht	Red		Gr
4	Blk	Wht	Red	Blue	Gr

480Y / 277V					
# Cdr.	Color Code				Ground
2	Br				Grey Gr
2		Org			Grey Gr
2			Yel		Grey Gr
2				Pur	Grey Gr
3	Br	Org			Grey Gr
3		Org	Yel		Grey Gr
3	Br		Yel		Grey Gr
3			Yel	Pur	Grey Gr
3	Br			Pur	Grey Gr
4	Br	Org	Yel		Grey Gr
4	Br		Yel	Pur	Grey Gr

3. Assembly: Phase and insulated grounding conductors and covering binder tape.

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

Technical Data

600 V Copper, PVC/Nylon, Green Insulated Ground, 90 °C

Conductor		Grounding		Approximate Outside Diameter	Approximate Net Weight
Size AWG / # Conductors	Solid or Stranded	Size AWG	Solid or Stranded		
14-2	Solid	14	Solid	0.43	84
14-3	Solid	14	Solid	0.46	101
14-4	Solid	14	Solid	0.49	120
12-2	Solid	12	Solid	0.47	110
12-3	Solid	12	Solid	0.50	135
12-4	Solid	12	Solid	0.53	162
10-2	Solid	10	Solid	0.54	159
10-3	Solid	10	Solid	0.58	198
10-4	Solid	10	Solid	0.62	240
12-2	Stranded	12	Stranded	0.48	126
12-3	Stranded	12	Stranded	0.51	152
12-4	Stranded	12	Stranded	0.55	169
10-2	Stranded	10	Stranded	0.55	166
10-3	Stranded	10	Stranded	0.60	207
10-4	Stranded	10	Stranded	0.65	246
8-2	Stranded	10	Stranded	0.68	258
8-3	Stranded	10	Stranded	0.74	325
8-4	Stranded	10	Stranded	0.79	403
6-2	Stranded	8	Stranded	0.75	367
6-3	Stranded	8	Stranded	0.81	475
6-4	Stranded	8	Stranded	0.88	586
4-3	Stranded	8	Stranded	0.98	665
4-4	Stranded	8	Stranded	1.07	839
2-3	Stranded	6	Stranded	1.13	970
2-4	Stranded	6	Stranded	1.23	1223

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.

Technical Data *continued*

600 V Copper, PVC/Nylon, Green Insulated Ground, 90 °C

Conductor		Package				
Size AWG / # Conductors	Coil			Reel (Size)		
	125 ft	200 ft	250 ft	500 ft	1000 ft	2000 ft
14-2			X		24-11-10 3/4"	
14-3			X		24-11-10 3/4"	
14-4			X		24-11-10 3/4"	
12-2			X		24-11-10 3/4"	
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"	
10-2			X		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	
8-2		X		24-15-12		
8-3		X		24-18-10 5/8		36-26-18
8-4				30-18-18		
6-2	X			30-18-18		
6-3	X			30-18-18		40-24-17
6-4				30-18-18		
4-2						
4-3				30-18-18	36-18-18	
4-4				36-18-18		
2-2						
2-3				36-18-18	36-26-18	
2-4				36-26-18		

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 Department.

Type MC THHN/THWN-2 Singles, PVC/Nylon, Green Insulated Ground, 600 V Copper



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