

NEW

MC-QUIK™ & MC-STAT™

MC-Quik™ & MC-Stat™ Product Guide



AFC

CABLE SYSTEMS®

MC-Quik™ Type MC Cable – 120/208V & 480Y/277V

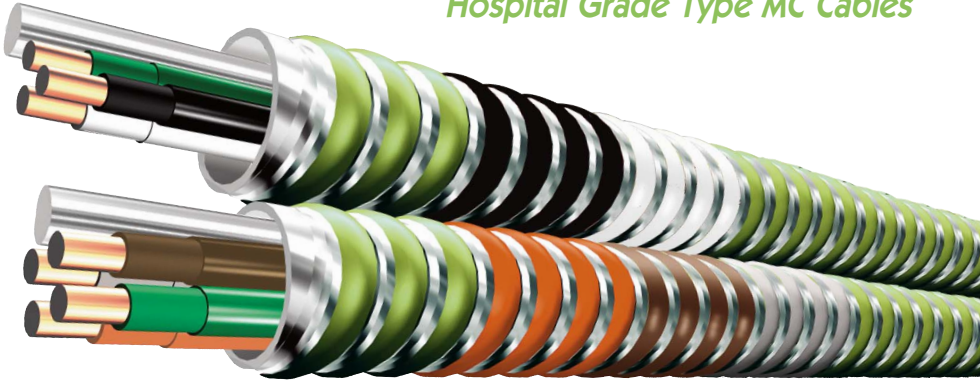


Feature & Benefits

- **“Quik” terminations and decreased box fill**
 - Armor in combination with full sized ground/bond wire is the low impedance ground fault path
 - Simply cut the armor to the length needed
 - No ground wire to terminate
 - Use Type MCI-A connector - NOW readily available (Metal-Clad Interlocking Armor Ground Cable)
- **No messy assembly tape**
 - Saves time and eliminates scrap
 - New polypropylene covering over each THHN 90°C insulated conductor provides added conductor protection end-to-end
 - Replaces time consuming overall conductor assembly tapes
 - Simple and easy wire stripping
- **600V Type MC cable available in 120/208V or 480Y/277V configurations**
 - Stranded wire also available
- **ColorSpec® ID System color coding displayed on cable armor**
 - Fast cable and fast phase/circuit identification
 - Primary cable color Purple denotes it is MC-Quik
 - Additional color bands denotes phase/circuit & neutral conductor colors
 - Makes inspections go much faster
 - Eliminates costly mistakes in the field
- **Flexible galvanized steel or aluminum interlocking metal armor**
 - Steel version MC-Quik - Aluminum version MC-Quik Lite™
 - Provides fast - easy - time saving electrical installations

MC-Stat™ Type MC Cable – 120V/208V & 480Y/277V

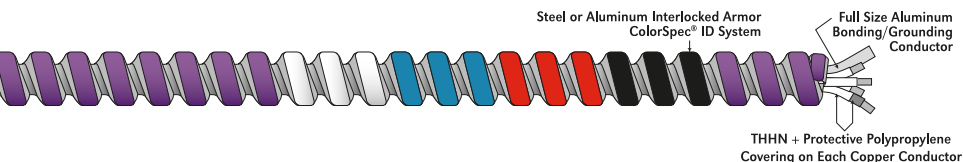
Hospital Grade Type MC Cables



Feature & Benefits

- **Two ground fault paths meet NEC® 517 requirements for health care applications**
 - Armor in combination with full sized ground/bond wire is the low impedance ground fault path
 - Second equipment ground fault path is full sized green insulated copper grounding conductor
 - Use MCI-A connector - NOW readily available
- **No messy assembly tape AND no messy paper wrap**
 - Saves time and eliminates scrap
 - New polypropylene covering over each THHN 90° insulated conductor provides added conductor protection end-to-end
 - Replaces time consuming overall conductor assembly wraps and paper tapes
 - Simple and easy wire stripping
- **600V Type MC cable available in 120/208V or 480Y/277V configurations**
 - Stranded wire also available
- **ColorSpec™ ID System color coding displayed on cable armor**
 - Fast cable and fast phase/circuit identification
 - Primary cable color Green denotes MC-Stat
 - Additional color bands denote the phase/circuit and neutral conductor
 - Makes inspections go much faster
 - Eliminates costly mistakes in the field
- **Flexible galvanized steel or aluminum interlocking metal armor**
 - Steel version MC-Stat - Aluminum version MC-Stat Lite™
 - Provides fast - easy - time saving electrical installations

MC-Quik™ Type MC Cable – 120/208V & 480Y/277V (Steel or Aluminum Armor)



Reference & Ratings for MC-Quik and MC-Quik Lite™

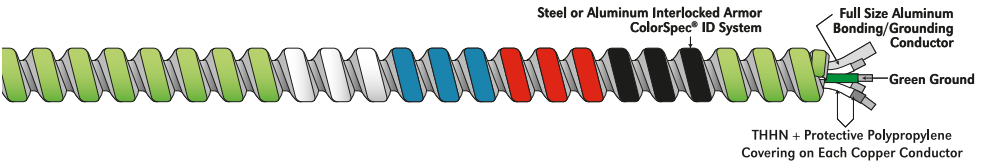
- **UL 1569, UL 83, UL 1479, UL 1581, UL 2556**
- **Federal spec A-A-59544 (formerly J-C-30B)**
- **NEC® 330, 300.22(C), 230.43, 250.118, 392, 396, 518, 520, 520, 645**
- **Permitted for use in Cable Trays**
- **Meets all OSHA and HUD requirements**
- **May be surface mounted, fished and/or embedded in plaster**
- **UL Classified, 1, 2, and 3-hour through penetration Fire Wall**
- **NEC® 300.22(C) Environmental Air Handling Spaces**

Specification Description

Specification	MC-Quik™ & MC-Quik Lite™
Armor	Armor Galvanized Steel or Aluminum Interlocked Strip ColorSpec ID System
Conductors	Solid/Stranded Copper
Conductor Insulation	Conductor Insulation Type THHN with protective polypropylene covering on each insulated conductor (No messy assembly tape)
Maximum Temperature Rating	90 °C (dry)
Grounding	One grounding means (1) Full-sized aluminum bonding/grounding conductor NEC® 250.118(10)(a)
Neutral Conductor	White for 120V - Gray for 277/480V
Maximum Voltage Rating	600V

MC-Stat™ Type MC Cable – 120V/208V & 480Y/277V

Hospital Grade Type MC Cables (Steel or Aluminum Armor)



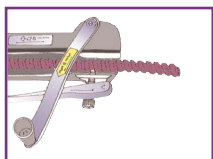
Reference & Ratings for MC-Stat and MC-Stat Lite™

- **UL 1569, UL 83, UL 1479, UL 1581, UL 2556**
- **Federal spec A-A-59544 (formerly J-C-30B)**
- **NEC® 330, 300.22(C), 230.43, 250.118, 392, 396, 517, 518, 520, 520, 645**
- **Permitted for use in Cable Trays**
- **Meets all OSHA and HUD requirements**
- **May be surface mounted, fished and/or embedded in plaster**
- **UL Classified, 1, 2, and 3-hour through penetration Fire Wall**
- **NEC® 300.22(C) Environmental Air Handling Spaces**

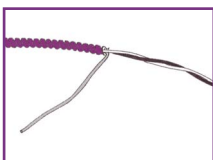
Specification Description

Specification	MC-Stat™ & MC-Stat Lite™
Armor	Armor Galvanized Steel or Aluminum Interlocked Strip ColorSpec ID System
Conductors	Solid/Stranded Copper
Conductor Insulation	Conductor Insulation Type THHN with protective polypropylene covering on each insulated conductor (No messy assembly tape)
Maximum Temperature Rating	90 °C (dry)
Grounding	Two grounding means (1) Full-sized aluminum bonding/grounding conductor NEC® 250.118(10)(a) (2) Full-sized green insulated copper grounding conductor NEC® 250.118(1)
Neutral Conductor	White for 120V and Gray for 480Y/277V
Maximum Voltage Rating	600V

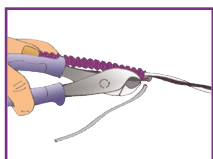
MC-Quik™ Type MC Cable – 120/208V & 480Y/277V Installation Instructions



1. Cut the cable to length needed and remove armor approximately 6-inches from end using a rotary cutting tool designed for use with Interlocked Metal-Clad Cable or other acceptable method and remove armor.



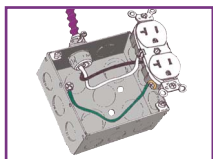
2. Separate the bare aluminum grounding/bonding conductor from the cable assembly by folding the bare aluminum grounding/bonding conductor back approximately 120°.



3. Cut the aluminum bare grounding/bonding conductor flush with the end of the armor using a suitable tool.



4. Use a fitting identified and listed* for use with a Metal-Clad Interlocking Armor Ground Cable (Type MCI-A), install the fitting per the manufacturers instructions.

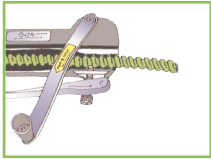


5. Bond the cable, fitting, box and wiring devices, as applicable, to provide an effective ground-fault current path.

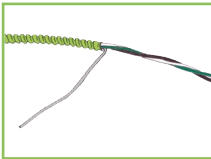
NOTES:

1. The combination of the metal armor and the bare aluminum grounding/bonding conductor is the effective ground-fault path in accordance with NEC® 250.118(10(a)).
2. OPTIONAL INSTALLATION METHOD: Although not required, the bare aluminum grounding/bonding conductor may be terminated inside the box or enclosure provided the splices, connectors or terminations are suitable for the material of the conductor(s) to be used per NEC® 110.14.
3. *The fitting must be listed and marked for use with “Metal-Clad Interlocking Ground Cable Type” or “MCI-A” where the armor is a component of the equipment grounding path.
4. Cable has one grounding means, armor/bond-ground wire combination

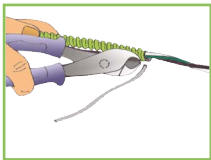
MC-Stat™ Type MC Cable – 120V/208V & 480Y/277V Installation Instructions



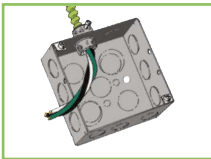
1. Cut the cable to length needed and remove armor approximately 6-inches from end using a rotary cutting tool designed for use with Interlocked Metal-Clad Cable or other acceptable method and remove armor.



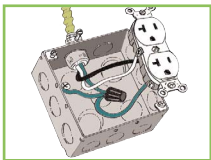
2. Separate the bare aluminum grounding/bonding conductor from the cable assembly by folding the bare aluminum grounding/bonding conductor back approximately 120°.



3. Cut the bare aluminum grounding/bonding conductor flush with the end of the armor using a suitable tool.



4. Use a fitting identified and listed* for use with a Metal-Clad Interlocking Armor Ground Cable (Type MCI-A), install the fitting per the manufacturers instructions.



5. Bond the cable, fitting, box and wiring device, as applicable, to provide an effective ground-fault current path to comply with NEC® 517.13(A). Terminate the green equipment grounding conductor to the device, the grounding screw or other grounding connection to comply with NEC® 517.13(B).

NOTES:

1. The combination of the metal armor and the bare aluminum grounding/bonding conductor is the effective ground-fault path in accordance with NEC® 250.118(10)(a).
2. OPTIONAL INSTALLATION METHOD: Although not required, the bare aluminum grounding/bonding conductor may be terminated inside the box or enclosure provided the splices, connectors or terminations are suitable for the material of the conductor(s) to be used per NEC® 110.14.
3. *The fitting must be listed and marked for use with "Metal-Clad Interlocking Ground Cable Type" or "MCI-A" where the armor is a component of the equipment grounding path.
4. The green insulated equipment grounding conductor is an effective ground-fault current path in accordance with NEC® 250.118(1).
5. Cable has two (2) grounding means:
 - (a) Armor/Bond-ground wire combination
 - (b) Green insulated grounding conductor in accordance with NEC® 250.118(10) (a) and 250.118(1).

Product Codes, Trade Sizes, Conductors, Packaging, & Weights

Product Code No. 250' Coil	Product Code No. 1000' Reel	Trade Size AWG	Copper Conductor Type	Conductor Colors	Bare Alum. Ground/Bond Conductor AWG	Overall Cable Nominal O.D. (in)	Approx. Weight / 1000 Ft (lbs)
MC-Quik™ Cable							
120V Solid							
7704-42-00	7704-60-00	12-2	Solid	(bk & we)	10	0.463	122
7705-42-00	7705-60-00	12-3	Solid	(bk, rd, & we)	10	0.523	159
7706-42-00	7706-60-00	12-4	Solid	(bk, rd, be, & we)	10	0.565	222
7707-42-00	7707-60-00	10-2	Solid	(bk & we)	8	0.525	195
7708-42-00	7708-60-00	10-3	Solid	(bk, rd, & we)	8	0.601	255
277/480V Solid							
7704-42-01	7704-60-01	12-2	Solid	(bn & gy)	10	0.463	122
7705-42-01	7705-60-01	12-3	Solid	(bn, oe, & gy)	10	0.523	159
120V Stranded							
7758-42-00	7758-60-00	12-2	Stranded	(bk & we)	10	0.482	127
Special Colors Solid							
7704-42-02	7704-60-02	12-2	Solid	(oe & gy)	10	0.463	122
7704-60-03	7704-60-03	12-2	Solid	(yw & gy)	10	0.463	122
7704-42-04	7704-60-04	12-2	Solid	(rd & we)	10	0.463	122
7704-42-05	7704-60-05	12-2	Solid	(be & we)	10	0.463	122
MC-Quik™ Lite Cable							
120V Solid							
3101-42-00	3101-60-00	14-2	Solid	(bk & we)	12	0.422	66
3102-42-00	3102-60-00	14-3	Solid	(bk, rd, & we)	12	0.467	88
3104-42-00	3104-60-00	12-2	Solid	(bk & we)	10	0.463	90
3104-42-04	3104-60-04	12-2	Solid	(rd & we)	10	0.463	90
3105-42-00	3105-60-00	12-3	Solid	(bk, rd, & we)	10	0.523	122
3106-42-00	3106-60-00	12-4	Solid	(bk, rd, be, & we)	10	0.565	167
3107-42-00	3107-60-00	10-2	Solid	(bk & we)	8	0.525	145
3108-42-00	3108-60-00	10-3	Solid	(bk, rd, & we)	8	0.601	195
3109-42-00	3109-60-00	10-4	Solid	(bk, rd, be, & we)	8	0.651	252
277/480V Solid							
3104-42-01	3104-60-01	12-2	Solid	(bn & gy)	10	0.463	90
3105-42-01	3105-60-01	12-3	Solid	(bn, oe, & gy)	10	0.523	122
120V Stranded							
3158-42-00	3158-60-00	12-2	Stranded	(bk & we)	10	0.482	94
3159-42-00	3159-60-00	12-3	Stranded	(bk, rd, & we)	10	0.539	126
MC-Stat™ Cable							
120V Solid							
7504-42-00	7504-60-00	12-2	Solid	(bk, we, & gn)	10	0.523	159
7505-42-00	7505-60-00	12-3	Solid	(bk, rd, we, & gn)	10	0.565	222
MC-Stat™ Lite Cable							
120V Solid							
5804-42-00	5804-60-00	12-2	Solid	(bk, we, & gn)	10	0.523	122
5805-42-00	5805-60-00	12-3	Solid	(bk, rd, we, & gn)	10	0.565	167
5806-42-00	5806-60-00	12-4	Solid	(bk, rd, be, we, & gn)	10	0.618	209
5807-42-00	5807-60-00	10-2	Solid	(bk, we, & gn)	8	0.601	195
277/480V Solid							
5804-42-01	5804-60-01	12-2	Solid	(bn, gy, & gn)	10	0.523	122
120V Stranded							
5858-42-00	5858-60-00	12-2	Stranded	(bk, we, & gn)	10	0.539	126
5859-42-00	5859-60-00	12-3	Stranded	(bk, rd, we, & gn)	10	0.585	174

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Electrical & Support Division