

# cerrowire MC CABLE SPECIFICATIONS





# **TABLE OF CONTENTS**

	PAGE:
All Purpose MC	3-4
Fire Alarm/NPLFR MC	<u>5</u>
Healthcare MC	<u>6-7</u>
Lighting/PCS MC	<u>8</u>
Multi-Neutral MC	<u>9</u>
Type AC	<u>10</u>
Type MC Solid	<u>11</u>
Type MC Stranded	12-13



# All Purpose MC Cable



Aluminum Armor

### 14 AWG – 10 AWG THHN/THWN-2 Insulated **Conductors with Bare Aluminum Grounding/ Bonding Conductor Continuously Contacting Armor**

**Solid or Stranded Conductors** 600V 90°C **Dry Location** 

### **Description:**

Metal-Clad Cable with two-, three-, or four-circuit THHN/THWN conductors, and a bare aluminum grounding/bonding conductor in constant contact with the armor, allowing it to serve as a redundant grounding path. Intended for use in accordance with the National Electrical Code® Conductor constructions have the insulated conductors cabled together with a separator tape, displaying the identification print legend, wrapped around the assembly. The bare aluminum grounding/bonding conductor is cabled on the outside of the separator tape. An interlocked aluminum armor is applied over the entire construction.

#### Materials:

Solid Conductors: Soft, uncoated copper per ASTM B3

Stranded Conductors: Uncoated copper per ASTM B3, B8, B787

Insulation: THHN/THWN-2 PVC (polyvinyl chloride) with color-coded nylon

(polyamide) covering

Bare Grounding/Bonding Conductor: 8000 Series aluminum alloy per ASTM B800;

Sizes 12 AWG-8 AWG

Armor: Aluminum-based alloy armor applied over the complete assembly

### Standards:

UL 1569: E38918 UL 83: E15119 ASTM B3, B8, B787 ASTM B800 FT4/IEEE 1202

NFPA 70 (National Electrical Code), Article 330

Federal Specification A-A59544

### Armor Coding System\*:

- Sequential Footage: shown every two feet
- Footage Marker: Black line = aluminum armor
- **Chevron Colors:** indicate number & color of conductors
  - **Chevron Direction: indicates** recommended pull direction
- Cable Size: indicates wire gauge & number of conductors

\*PATENT PENDING

### Features:









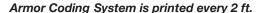












	Conductors				Cable
Size	# of Strands	Color	Bare Aluminum Ground/Bonding Wire	Approx. Overall Diameter (in)	Approx. Net Wt Lbs/1000'
14/2	Solid	•0 ••	12 AWG	0.372	72.5
14/3	Solid		12 AWG	0.402	91.8
14/4	Solid		12 AWG	0.432	115.0
12/2	Solid		10 AWG	0.426	93.9
12/3	Solid		10 AWG	0.442	122.6

Data are approximate and subject to normal manufacturing tolerances.

It is the sole responsibility of the end user to determine suitability of this product for its intended use and application.

chart cont'd on next page

### Color Key:

















### All Purpose MC Cable cont'd

	Conductors				ble
Size	# of Strands	Color	Bare Aluminum Ground/Bonding Wire	Approx. Overall Diameter (in)	Approx. Net Wt Lbs/1000'
12/4	Solid	•0•• •••	10 AWG	0.478	207.0
10/2	Solid	•0 ••	8 AWG	0.511	238.0
10/3	Solid		8 AWG	0.519	239.0
10/4	Solid		8 AWG	0.620	298.0
14/2	19	•0 ••	12 AWG	0.521	81.0
14/3	19		12 AWG	0.536	101.0
14/4	19		12 AWG	0.584	122.0
12/2	19	•0 ••	10 AWG	0.434	95.1
12/3	19		10 AWG	0.475	127.2
12/4	19		10 AWG	0.524	204.0
10/2	19	• 0   • •	8 AWG	0.552	235.0
10/3	19		8 AWG	0.550	211.0
10/4	19		8 AWG	0.594	251.0

### Fire Alarm/NPLFR MC Cable



Aluminum Armor

### 14 AWG – 12 AWG THHN/THWN-2 Insulated Conductors with Green Insulated Ground

Solid Conductors 600V/NPLFR 150V 90°C Dry

### **Description:**

Metal-Clad Cable with two-, three- or four-circuit THHN/THWN conductors and a green insulated ground. Intended for use in accordance with the National Electrical Code<sup>®</sup>. Conductor constructions have the insulated conductors cabled together with a separator tape that displays the identification print legend wrapped around the assembly. An interlocked aluminum armor is applied over the entire construction.

#### **Materials:**

Solid Conductors: Soft, uncoated copper per ASTM B3
Insulation: THHN/THWN-2 PVC (polyvinyl chloride) with color-coded nylon (polyamide) covering. Sizes 14 AWG – 12 AWG.
Armor: Aluminum alloy armor applied over the complete assembly

### Features:







### Standards:

UL 1569: E135230, UL 83: E15119 UL 1425, ASTM B3, FT4/IEEE 1202 NFPA 70 (National Electrical Code), Article 330

Federal Specification A-A59544

### **Armor Coding System\*:**

- Sequential Footage: shown every two feet
- Prootage Marker:
  Black line = aluminum armor
- Chevron Colors: indicate number & color of conductors
  Chevron Direction: indicates
- recommended pull direction

  Cable Size: indicates wire gauge & number of conductors
- 5 Red Stripe: indicates Fire Alarm MC Cable

\*PATENT PENDING



### Armor Coding System is printed every 2 ft.

	Conductors			Cable		
Size	# of Strands	Color	Insulated Green Ground Wire Size	Approx. Overall Diameter (in)	Approx. Net Wt Lbs/1000'	
14/2	Solid	•0	14 AWG	0.430	82.5	
14/4	Solid	• • •	14 AWG	0.495	120.1	
12/2	Solid	•0	12 AWG	0.475	103.4	
12/3	Solid	• 0 •	12 AWG	0.502	135.7	
12/4	Solid	lacktriangle	12 AWG	0.539	164.5	

Data are approximate and subject to normal manufacturing tolerances.

It is the sole responsibility of the end user to determine suitability of this product for its intended use and application.



Black

White 
 Red
 ■ Red







### Healthcare MC Cable



### 12 AWG – 10 AWG THHN/THWN-2 Insulated **Conductors with Green Insulated and Armor Ground**

**Solid or Stranded Conductors** 600V 90°C Dry

### **Description:**

Metal-Clad Cable with two-, three- or four-circuit THHN/THWN conductors and a green insulated ground in addition to a bare aluminum grounding/bonding conductor that is cabled on the outside of the separator tape, allowing it to be in constant contact with the armor and to serve as a redundant grounding path. Intended for use in accordance with the National Electrical Code® Conductor constructions have the insulated conductors cabled together with a separator tape, displaying the identification print legend, wrapped around the assembly. An interlocked aluminum armor is applied over the entire construction.

### **Materials:**

Solid Conductors: Soft, uncoated copper per ASTM B3 Stranded Conductors: Uncoated copper per ASTM B3, B8, B787 Insulation: THHN/THWN-2 PVC (polyvinyl chloride) with color-coded nylon (polyamide) covering. Sizes 12 AWG-10 AWG.

Bare Grounding/Bonding Conductor: 8000 Series aluminum alloy per ASTM B800.

Sizes 10 AWG - 8 AWG.

Armor: Aluminum alloy armor applied over the complete assembly

### Standards:

UL 1569: E38918 UL 83: E15119 ASTM B3, B8, B787, ASTM B800 FT4/IEEE 1202

NFPA 70 (National Electrical Code), Article 330

Federal Specification A-A59544

### Armor Coding System\*:

- Sequential Footage: shown every two feet
- Footage Marker: Black line = aluminum armor
- **Chevron Colors:** indicate number & color of conductors **Chevron Direction: indicates** recommended pull direction
- Cable Size: indicates wire gauge & number of conductors
- Green Stripe: indicates Healthcare MC Cable

\*PATENT PENDING

### **Features:**























### Armor Coding System is printed every 2 ft.

		Cable			
Size	# of Strands	Color	Insulated Green Ground Wire Size	Approx. Overall Diameter (in)	Approx. Net Wt Lbs/1000'
12/2	Solid	•0 ••	10 AWG	0.442	122.6
12/3	Solid		10 AWG	0.478	145.9
12/4	Solid		10 AWG	0.511	238.0
10/2	Solid		8 AWG	0.519	171.8
10/3	Solid		8 AWG	0.620	211.6
10/4	Solid		8 AWG	0.675	338.0
12/2	19	•0 ••	10 AWG	0.475	127.2
12/3	19		10 AWG	0.524	159.5

Data are approximate and subject to normal manufacturing tolerances.

It is the sole responsibility of the end user to determine suitability of this product for its intended use and application.

chart cont'd on next page





**Color Key: Black** White Red Blue **Brown** Grey **Orange** Yellow





### Healthcare MC Cable cont'd

	Conductors			Са	ble
Size	# of Strands	Color	Insulated Green Ground Wire Size	Approx. Overall Diameter (in)	Approx. Net Wt Lbs/1000'
12/4	19	•0•• •••	10 AWG	0.552	181.0
10/2	19		8 AWG	0.550	177.1
10/3	19	• 0 •   • • •	8 AWG	0.594	251.0
10/4	19		8 AWG	0.645	297.0

# Lighting/PCS MC Cable



Aluminum Armor

12 AWG – 10 AWG THHN/THWN-2 Insulated Conductors with Green Insulated Ground and 16 AWG TFN/TFFN Signal and/or Control Conductors for LED Lighting with 0 to 10-Volt Dimming

Solid or Stranded Conductors 600V 90°C Dry

### **Description:**

Metal-Clad Cable with two-, three- or four-circuit THHN/THWN-2 conductors, a green insulated equipment grounding conductor, and a signal and/or control assembly comprising two 16 AWG TFN/TFFN conductors with an outer PVC jacket. Intended for use in accordance with the National Electrical Code. Conductor constructions have insulated power and grounding conductors cabled together with a separator tape, displaying the identification print legend, wrapped around the assembly and a signal and/or control assembly cabled on the outside of the separator tape. An interlocked aluminum armor is applied over the entire construction.

### **Materials:**

Solid Conductors: Soft, uncoated copper per ASTM B3 Stranded Conductors: Uncoated copper per ASTM B3, B8, and B787 Insulation: Nylon (polyamide) color-coded THHN/THWN-2

Signal and/or Control Assembly: Single unshielded twisted pair; FR-PVC jacket;

16 AWG TFN/TFFN conductors

Armor: Aluminum alloy armor applied over the complete assembly

### **Standards:**

UL 1569: E38918 UL 83: E15119

ASTM B3, B8, and B787

NFPA 70 (National Electrical Code),

Article 330

Federal Specification A-A59544

### **Armor Coding System\*:**

- 1 Sequential Footage: shown every two feet
- 2 Footage Marker:
  Black line = aluminum armor
- 3 Chevron Colors: indicate number & color of conductors
  Chevron Direction: indicates
- recommended pull direction

  Cable Size: indicates wire gauge & number of conductors
- 5 Yellow Stripe: indicates Lighting MC Cable

\*PATENT PENDING

#### **Features:**



















Armor Coding System is printed every 2 ft.

		Conductors	Cable			
Size	# of Strands	Color	Insulated Green Ground Wire Size	Signal and/or Control Cable	Approx. Overall Diameter (in)	Approx. Net Wt Lbs/1000'
12/2	Solid	•0 ••	12 AWG	16/2 Solid	0.475	172.0
12/3	Solid	•0• ••	12 AWG	16/2 Solid	0.502	202.5
12/4	Solid		12 AWG	16/2 Solid	0.539	230.5
10/2	Solid	• 0   • •	10 AWG	16/2 Solid	0.535	155.0
10/3	Solid		10 AWG	16/2 Solid	0.580	182.0
12/2	19	• 0   • •	12 AWG	16/2 Solid	0.490	177.2
12/3	19		12 AWG	16/2 Solid	0.534	208.6
10/2	19	• 0   • •	10 AWG	16/2 Solid	0.562	162.0

Color Key:

BlackWhite

Red

Blue

BrownGrey

Orange

Yellow





### Multi-Neutral MC Cable



### 12 AWG-10 AWG THHN/THWN-2 Insulated Conductors, Multiple Neutral Conductors, **Green Insulated Grounding Conductor, and Optional Second Insulated Grounding Conductor**

**Solid or Stranded Conductors** 600V 90°C Dry

### **Description:**

Metal-Clad Cable with two-, three- or four-circuit THHN/THWN-2 conductors, a dedicated neutral conductor for each phase, and a green insulated equipment grounding conductor. Intended for use in accordance with the National Electrical Code. Conductor constructions have the insulated conductors cabled together with a separator tape, displaying the identification print legend, wrapped around the assembly. An interlocked aluminum armor is applied over the entire construction.

#### **Materials:**

Solid Conductors: Soft, uncoated copper per ASTM B3 Stranded Conductors: Uncoated copper per ASTM B3, B8, and B787 Insulation: THHN/THWN-2 PVC (polyvinyl chloride) with color-coded nylon (polyamide) covering

Armor: Aluminum alloy armor applied over the complete assembly

### Standards:

UL 1569: E38918 UL 83: E15119

ASTM B3, B8, and B787

NFPA 70 (National Electrical Code),

Article 330

Federal Specification A-A59544

### **Armor Coding System\*:**

- **Sequential Footage:** shown every two feet
- Footage Marker: Black line = aluminum armor
- **Chevron Colors:** indicate number & color of conductors **Chevron Direction: indicates** recommended pull direction
- Cable Size: indicates wire gauge & number of conductors

\*PATENT PENDING

### Features:











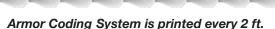












		Ca	ble		
Size	# of Strands	Color	Insulated Green Ground Wire Size	Approx. Overall Diameter (in)	Approx. Net Wt Lbs/1000'
12/2	Solid	• •	12 AWG	0.532	164.5
12/3	Solid	• • •	12 AWG	0.580	215.0
12/4	Solid	• • • •	12 AWG	0.598	262.0
10/2	Solid	• •	10 AWG	0.607	239.5
10/3	Solid	• • •	10 AWG	0.682	314.0
10/4	Solid	• • •	10 AWG	0.768	412.0



**Black** 

Red Blue

**Orange** 



Data are approximate and subject to normal manufacturing tolerances.

It is the sole responsibility of the end user to determine suitability of this product for its intended use and application.



# Type AC Cable



# 14 AWG-6 AWG THHN/THWN-2 Insulated Conductors Individually Wrapped in Moisture Resistant, Flame-Retardant Paper

Solid or Stranded Conductors 600V 90°C Dry Location

### **Description:**

Armored Cable with two-, three-, or four-circuit THHN/THWN conductors, and a bare aluminum bond wire in constant contact with the armor, allowing it to serve as a grounding path. Intended for use in accordance with the National Electrical Code. Conductors are individually wrapped with a moisture resistant, flame-retardant paper, and cabled together with marker tape displaying the required print legend. The bare aluminum bond wire is cabled on the outside of the paper wrapped conductors, and interlocked aluminum armor is applied over the entire construction. Materials:

Solid Conductors: Soft, uncoated copper per ASTM B3
Stranded Conductors: Uncoated copper per ASTM B3, B8, B787
Insulation: Nylon (polyamide) color-coded THHN/THWN-2. Sizes 14 AWG-6 AWG
Bare Grounding/Bonding Conductor: 8000 Series aluminum alloy per ASTM B800.
Size 16 AWG
Armor: Aluminum-based alloy armor applied over the complete assembly

### Standards:

UL4: E537299 UL83: E15119 ASTM B3, B8, B787, B800 NFPA 70 (National Electrical Code), Article 320 Federal Specification A-A59544

### **Armor Coding System\*:**

- Sequential Footage: shown every two feet
- Prootage Marker:
  Black line = aluminum armor
- 3 Chevron Colors: indicate number & color of conductors Chevron Direction: indicates recommended pull direction
- 4 Cable Size: indicates wire gauge & number of conductors

\*PATENT PENDING

#### **Features:**



### Armor Coding System is printed every 2 ft.

		Cable			
Size	# of Strands	Color	Bare Aluminum Ground/Bonding Wire	Approx. Overall Diameter (in)	Approx. Net Wt Lbs/1000'
14/2	Solid	•0	16 AWG	0.450	66.5
14/3	Solid	•0•	16 AWG	0.475	87.9
14/4	Solid	• • •	16 AWG	0.503	109.0
12/2	Solid	•0	16 AWG	0.480	85.0
12/3	Solid	• 0 •	16 AWG	0.510	113.0
12/4	Solid	• 0 • •	16 AWG	0.548	141.0
10/2	Solid	•0	16 AWG	0.555	114.0
10/3	Solid	•0•	16 AWG	0.595	159.0
10/4	Solid	• 0 • •	16 AWG	0.620	204.0

Color Key:

Black

○ White Red

Blue







# Type MC Cable

Solid



Aluminum Armor

### 14 AWG – 10 AWG THHN/THWN-2 Insulated Conductors with Green Insulated Ground

Solid Conductors 600V 90°C Dry

### **Description:**

Metal-Clad Cable with two-, three- or four-circuit THHN/THWN conductors and a green insulated ground. Intended for use in accordance with the National Electrical Code. Conductor constructions have the insulated conductors cabled together with a separator tape that displays the identification print legend wrapped around the assembly. An interlocked aluminum armor is applied over the entire construction.

#### **Materials:**

Solid Conductors: Soft, uncoated copper per ASTM B3

Insulation: THHN/THWN-2 PVC (polyvinyl chloride) with color-coded nylon

(polyamide) covering

Armor: Aluminum alloy armor applied over the complete assembly

### Standards:

UL 1569: E38918 UL 83: E15119 ASTM B3 FT4/IEEE 1202 NFPA 70 (National Electrical Code), Article 330 Federal Specification A-A59544

### **Armor Coding System\*:**

- Sequential Footage: shown every two feet
- 2 Footage Marker: Black line = aluminum armor
- 3 Chevron Colors: indicate number & color of conductors
  Chevron Direction: indicates
- recommended pull direction

  Cable Size: indicates wire gauge & number of conductors

\*PATENT PENDING













Armor Coding System is printed every 2 ft.

		Cable			
Size	# of Strands	Color	Insulated Green Ground Wire Size	Approx. Overall Diameter (in)	Approx. Net Wt Lbs/1000'
14/2	Solid	•0 ••	14 AWG	0.430	82.5
14/3	Solid		14 AWG	0.465	103.2
14/4	Solid		14 AWG	0.495	111.0
12/2	Solid		12 AWG	0.475	103.4
12/3	Solid		12 AWG	0.502	135.7
12/4	Solid		12 AWG	0.539	164.5
10/2	Solid	• 0   • •	10 AWG	0.535	157.1
10/3	Solid		10 AWG	0.580	197.1
10/4	Solid		10 AWG	0.623	239.5

Color Key:

Black

White Red

BlueBrown

Grey

Orange

Yellow

WADE IN THE USA

Data are approximate and subject to normal manufacturing tolerances.

It is the sole responsibility of the end user to determine suitability of this product for its intended use and application.



# Type MC Cable

### Stranded



Aluminum Armor

### 14 AWG – 2 AWG THHN/THWN-2 Insulated **Conductors with Green Insulated Ground**

Stranded Conductors 600V 90°C Dry

### **Description:**

Metal-Clad Cable with two-, three- or four-circuit THHN/THWN conductors and a green insulated ground. Intended for use in accordance with the National Electrical Code. Conductor constructions have the insulated conductors cabled together with a separator tape that displays the identification print legend wrapped around the assembly. An interlocked aluminum armor is applied over the entire construction.

#### **Materials:**

Stranded Conductors: Uncoated copper per ASTM B3, B8, and B787 Insulation: THHN/THWN-2 PVC (polyvinyl chloride) with color-coded nylon (polyamide) covering

Armor: Aluminum alloy armor applied over the complete assembly

### **Standards:**

UL 1569: E38918 UL 83: E15119 ASTM B3, B8, B787 FT4/IEEE 1202 NFPA 70 (National Electrical Code), Article 330 Federal Specification A-A59544

### **Armor Coding System\*:**

- **Sequential Footage:** shown every two feet
- Footage Marker: Black line = aluminum armor
- **Chevron Colors:** indicate number & color of conductors **Chevron Direction: indicates** recommended pull direction
- Cable Size: indicates wire gauge & number of conductors

\*PATENT PENDING





Footag







Armor Coding System is printed every 2 ft.

	Conductors				ble
Size	# of Strands	Color	Insulated Green Ground Wire Size	Approx. Overall Diameter (in)	Approx. Net Wt Lbs/1000'
14/2	19	•0 ••	14 AWG	0.425	85.6
14/3	19		14 AWG	0.457	107.9
14/4	19		14 AWG	0.478	110.0
12/2	19		12 AWG	0.490	105.5
12/3	19		12 AWG	0.534	139.6
12/4	19		12 AWG	0.560	161.3
10/2	19		10 AWG	0.562	161.6
10/3	19		10 AWG	0.604	203.7
10/4	19		10 AWG	0.649	243.0

Data are approximate and subject to normal manufacturing tolerances. It is the sole responsibility of the end user to determine suitability of this product for its intended use and application.

chart cont'd on next page

### **Color Key:**

- **Black**
- White
- Red Blue
- **Brown**
- Grey
- **Orange** Yellow







### Type MC Cable Stranded cont'd

		Ca	ble		
Size	# of Strands	Color	Insulated Green Ground Wire Size	Approx. Overall Diameter (in)	Approx. Net Wt Lbs/1000'
8/2	19	•0 ••	10 AWG	0.641	210.6
8/3	19		10 AWG	0.674	274.7
8/4	19		10 AWG	0.790	381.5
6/2	19	•0 ••	8 AWG	0.712	350.4
6/3	19		8 AWG	0.815	342.3
6/4	19		8 AWG	0.899	552.9
4/3	19		8 AWG	0.994	647.0
4/4	19		8 AWG	1.066	779.0
3/3	19		6 AWG	1.049	758.0
3/4	19		6 AWG	1.172	949.0
2/3	19		6 AWG	1.113	889.0