






Dim Down **Your Costs**

with MC-LED...
Power & Control in a single cable.

In our fast-paced industry, a speedy installation can help save you money. That's why our **MC-LED** combines Power and Class 2/Class 3 circuits into a single cable that is used with LED and fluorescent dimming and smart-control lighting systems. One cost-saving cable, one time-saving pull. So turn down the lights, while turning up the savings.



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TYPE MC-LED (MC-PCS) LIGHTING CABLE - COPPER CONDUCTOR - 600V

THHN/THWN-2 INNERS

ENGINEERING SPECIFICATIONS

Standards

Underwriters Laboratories Standards UL-66, UL-83, UL-1479, UL-1569, UL-1581, UL-2556; Federal Specification A-A-59544; ASTM-B3 and B8; NEMA WC70/ICEA S-95-658; NFPA 70 (NEC®) Article 250.118(10)(a), 300.22(C)(1), 330, 392, 396, 501, 502, 503, 504, 505, 518, 520, 530, 645, 725; ARRA 2009 Section 1605 "Buy American" Compliant; UL CRD Type MC-PCS - 12/19/2014 (Effective 2/1/2015); RoHS Compliant; MasterSpec Division 26 Sections 260519, 260523; UL Listing #E-301130



CONSTRUCTION

Conductors

Lighting (Power or Class 1) - Solid or Stranded 12-10 AWG soft, uncoated copper per ASTM-B3; Class 2 and Class 3 - Solid 16 AWG soft, uncoated copper per ASTM-B3

Insulation

Color-coded Polyvinyl Chloride (PVC) compound meeting the required thickness of Type THHN/THWN-2 with a heat-stabilized Nylon rated for 90°C for use in dry or wet locations.

Class 2 and Class 3 Conductors

Color-coded (purple/pink) 16 AWG twisted jacketed pair with 600V insulation. The National Electrical Code (NEC) and UL 1569 permits electric light and power circuits conductors in an MC Cable with class 2 and class 3 circuits in accordance with NEC Section 725.136(l)(1).

Assembly

Two conductors and a green equipment grounding conductor cabled together with an individually-jacketed twisted pair included. The entire assembly is wrapped with separator tape containing the information print legend. Interlocked aluminum or galvanized steel armor is applied over the entire assembly. MC-LED is also available in PVC Jacketed for wet and damp locations.

APPLICATIONS

MC-LED (Type MC-PCS) cable is designed for use with LED and fluorescent dimming systems and smart building technology that offers optimal control over building's lighting systems including outdoors, such as parking decks, sporting arenas, and parking lots where PVC jacketed. MC-LED may be surface mounted, fished and/or embedded in plaster in dry locations or in wet or damp locations where PVC Jacketed. MC-LED eliminates the need to install a separate low-voltage cable and traditional lighting/power MC Cable to a single luminaire. UL Classified for 1, 2 and 3 hour through penetrations (Fire-Stop). Jacketed MC-LED is identified for use in corrosive conditions, such as direct burial in earth or embedded in concrete. Meets acceptable uses in accordance with NEC 250.118(10)(a), 300.22(C), 330.12(2)(a), 330, 392, 396, 501, 502, 503, 504, 505, 518, 520, 530, 645 and 725.



- 1 Removable SmartColorID® Label
- 2 Interlocked Aluminum or Galvanized Lightweight Steel Armor
- 3 Separator Tape
- 4 PVC Nonmetallic Sheathing
- 5 TFN or Equivalent Copper Conductors
- 6 THHN/THWN-2 or Equivalent Solid or Stranded Copper Conductors

Size (AWG)	No. of Strands	Ground Wire Size (AWG)	Twisted Jacketed Pair (AWG)	Outside Diameter Over Armor (in)	Approximate Net Weight (lbs/1000 ft)		Allowable Ampacity (Amps) ¹		Standard Packaging (ft)
					Aluminum	Steel	75°	90°	
12/2	Solid	12 AWG Green Insulated	16/2 Solid	0.581	144.39	223.92	25	30	250' 1000'
10/2	Solid	10 AWG Green Insulated	16/2 Solid	0.649	190.60	280.98	35	40	250' 1000'
12/3	Solid	12 AWG Green Insulated	16/2 Solid	0.622	170.46	256.52	25	30	250' 1000'
10/3	Solid	10 AWG Green Insulated	16/2 Solid	0.679	229.03	324.21	35	40	250' 1000'
12/4	Solid	12 AWG Green Insulated	16/2 Solid	0.651	196.17	286.87	25	30	250' 1000'
12/2	Stranded	12 AWG Green Insulated	16/2 Solid	0.609	147.94	231.94	25	30	250' 1000'
10/2	Stranded	10 AWG Green Insulated	16/2 Solid	0.677	195.75	290.61	35	40	250' 1000'
12/3	Stranded	12 AWG Green Insulated	16/2 Solid	0.666	175.76	268.86	25	30	250' 1000'

¹ Ampacity of conductors are based on NFPA 70 (NEC) Table 310.16. See 110.14(C), 240.4(D) and 310.15(B)&(C) for other limitations where applicable.

The above data is approximate and subject to normal manufacturing tolerances.

NOW AVAILABLE

MC-LED is available with a PVC jacket for wet and damp locations. It is flame-retardant, sunlight-resistant and applied over the armor.



FEATURES

Installation costs reduced up to 50% over raceway and wire. SmartColorID® labels are spaced at regular intervals on the exterior of the metal sheathing and are removable. For ease of installation and pulling, cable is reverse wound on reels. Coils are designed to be pulled from the inside.

NOTE

MC Cable Connectors are required to be listed for use with MC Cable per 330.6. Anti-Short Bushings are not required.

Standard Conductor Color Coding

Phase Conductors	120V/208V/240V	Phase Conductors	277V/480V
2	Black/White	2	Brown/Gray
3	Black/White/Red	3	Brown/Orange/Gray
Ground	Green	Ground	Green

Sub-Assembly

2	Purple/Pink
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SmartColorID® Legend:



Last Edit: 3/6/24