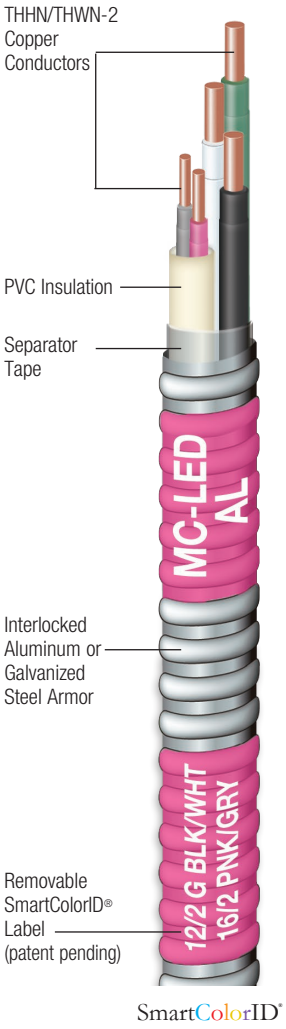

ENGINEERING SPECIFICATIONS:

RoHS COMPLIANT

UL® Listed E-301130

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
NFPA70- [NEC] Article 250.118(10)(a), 300.22(C), 392, 396, 330, 501, 502, 503, 504, 505, 518, 520, 530, 645, 725
ARRA 2009; Section 1605 "Buy American" Compliant

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 or TFN with a heat-stabilized Nylon rated for 90°C in dry locations.

Class 2 and 3 Conductors:

Color-coded (pink/gray) 16 AWG twisted jacketed pair with 600V insulation. NEC Section 300.3(C)(1) permits conductors of circuits rated 1000 volts or less to occupy the same cable provided all conductors are rated for the maximum circuit voltage in the cable. NEC Section 725.130 permits Class 1 wiring methods to be used for Class 2 and 3 circuits where they are installed using a Chapter 3 wiring method which includes MC Cable [725.46]. NEC Section 725.136(I)(2) permits electric light and power circuit conductors in an MC Cable with class 2 and 3 circuits if separated by a firmly fixed nonconductor, such as the flexible tubing on the twisted pair along with each individual conductor's insulation.

Applications:

Type MC-LED cable is designed for use with LED and Fluorescent dimming systems and smart building technology that offers optimal control over the building's lighting systems. MC-LED may be surface mounted, fished and/or embedded in plaster in normally dry locations. 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). Meets acceptable uses in accordance with NEC 250.118(10)(a), 300.22(C), 392, 396, 330, 501, 502, 503, 504, 505, 518, 520, 530, 645 and 725.

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.

TYPE MC-LED LIGHTING CABLE - COPPER CONDUCTOR - THHN/THWN-2 INNERS

Size (AWG)	Number of Strands	Ground Wire Size (AWG)	Twisted Jacketed Pair		Outside Diameter Over Armor (in)	Approximate Net Weight (lbs/1000 ft)		Allowable Ampacity (Amps)*		Standard Packaging (ft)
			Size	Jacket Thickness		Aluminum	Steel	75°C	90°C	
12/2	Solid	12 AWG Green Insulated	16/2 Solid	0.015	0.529	132.20	200.84	25	30	250' 1000'
10/2	Solid	10 AWG Green Insulated	16/2 Solid	0.015	0.584	176.58	253.53	35	40	250' 1000'
12/3	Solid	12 AWG Green Insulated	16/2 Solid	0.015	0.566	157.72	231.95	25	30	250' 1000'
12/2	Stranded	12 AWG Green Insulated	16/2 Solid	0.015	0.534	133.95	-	25	30	250' 1000'

*Ampacity of conductors are based on the National Electrical Code (NFPA 70) Table 310.15(B)(16). See 110.14(C) and 240.4(D) for other limitations where applicable.

Standard Conductor Color Coding

Phase Conductors	120V/208Y
2	Black/White
2	Red/White
2	Blue/White
3	Black/White/Red
Ground	Green

Phase Conductors	277V/480Y
2	Brown/Gray
2	Orange/Gray
2	Yellow/Gray
3	Brown/Orange/Gray
Ground	Green

SmartColorID® Legend:

See page 104 for complete legend

Sub-Assembly	
2	Pink/Gray