ENGINEERING SPECIFICATIONS

Standards
Underwriters Laboratories Standards UL-66, UL-83, UL-1479, UL-1569, UL-1581, UL-2556; Federal Specification A-A-59644; ASTM-B3 and B8; 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/gray) 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 cable 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, fishied and/or embedded in plaster in wet, damp, or 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). Jelacketed 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.

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. Insulating anti-short bushings are supplied with each reel or coil, but not required per Section 330.40 of the NEC. 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 anti-short bushings are supplied with each reel or coil, but not required per Section 330.40 of the NEC. SmartColorID labels are spaced at regular intervals on the exterior of the metal sheathing and are removable.

SmartColorID Legend:
- SmartColorID manufactured under Patent No. 7,954,530, 8,454,785, 8,826,960 & 8,905,108
- Additional colors available subject to ERQ

Additional Table:

<table>
<thead>
<tr>
<th>Size (AWG)</th>
<th>No. of Strands</th>
<th>Ground Wire Size (AWG)</th>
<th>Twisted Jacketed Pair (AWG)</th>
<th>Outside Diameter Over Armor (in)</th>
<th>Approximate Net Weight (lbs/1000 ft)</th>
<th>Allowable Ampacity (Amps)²</th>
<th>Standard Packaging (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/2</td>
<td>Solid</td>
<td>12 AWG Green Insulated</td>
<td>16/2 Solid</td>
<td>0.581</td>
<td>144.39</td>
<td>25, 30</td>
<td>250’ 1000’</td>
</tr>
<tr>
<td>10/2</td>
<td>Solid</td>
<td>10 AWG Green Insulated</td>
<td>16/2 Solid</td>
<td>0.649</td>
<td>190.60</td>
<td>35, 40</td>
<td>250’ 1000’</td>
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<tr>
<td>12/3</td>
<td>Solid</td>
<td>12 AWG Green Insulated</td>
<td>16/2 Solid</td>
<td>0.622</td>
<td>170.46</td>
<td>25, 30</td>
<td>250’ 1000’</td>
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<tr>
<td>10/3</td>
<td>Solid</td>
<td>10 AWG Green Insulated</td>
<td>16/2 Solid</td>
<td>0.679</td>
<td>229.03</td>
<td>35, 40</td>
<td>250’ 1000’</td>
</tr>
<tr>
<td>12/4</td>
<td>Solid</td>
<td>12 AWG Green Insulated</td>
<td>16/2 Solid</td>
<td>0.651</td>
<td>196.17</td>
<td>25, 30</td>
<td>250’ 1000’</td>
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<tr>
<td>12/2</td>
<td>Stranded</td>
<td>12 AWG Green Insulated</td>
<td>16/2 Solid</td>
<td>0.609</td>
<td>147.94</td>
<td>25, 30</td>
<td>250’ 1000’</td>
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<tr>
<td>10/2</td>
<td>Stranded</td>
<td>10 AWG Green Insulated</td>
<td>16/2 Solid</td>
<td>0.677</td>
<td>195.75</td>
<td>35, 40</td>
<td>250’ 1000’</td>
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<tr>
<td>12/3</td>
<td>Stranded</td>
<td>12 AWG Green Insulated</td>
<td>16/2 Solid</td>
<td>0.666</td>
<td>175.76</td>
<td>25, 30</td>
<td>250’ 1000’</td>
</tr>
</tbody>
</table>

¹ SmartColorID manufactured under Patent No. 7,954,530, 8,454,785, 8,826,960 & 8,905,108
² Ampacity of conductors are based on NFPA 70 (NEC) Table 310.15(B)(16). See 110.14(C), 240.4(D) and 310.15(B) for other limitations where applicable.

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

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