ENGINEERING SPECIFICATIONS

Standards
Underwriters Laboratories Standard UL-83, UL-1277, UL-1581, UL-2556; ASTM Stranding Class B3, B8, B787; NFPA 70 (NEC®) Article 336, 392, 725; NEMA WC 57/ICEA S-73-552; UL 1685-F14/IEEE 1202 (70,000 Btu/hr) Flame Test; ICEA T-29-520 (210,000 Btu/hr) Flame Test; ARRA 2009 Section 1605 “Buy American” Compliant; RoHS Compliant; MasterSpec Division 26 Sections 260519, 260523; UL Listing #E-179429

CONSTRUCTION

Conductors
Stranded, uncoated copper conductors per ASTM-B3, ASTM-B8 and ASTM-B787

Insulation
High dielectric strength, heat and moisture-resistant, colored Polyvinyl Chloride (PVC) rated for continuous use at 90°C dry or wet to meet UL-83 requirements for type THHN or THWN-2 wire.

Overall Jacket
Flame retardant, sunlight-resistant, black PVC jacket. Sunlight-resistant overall jacket available in all colors by request.

Ground Conductor
Insulated green ground

Assembly
The insulated conductors are cabled together with a green insulated ground, and with or without fillers as required to form a round compact core. Nylon rip-cord is supplied for easy stripping.

Color Coding
Color-coded insulation with ICEA Method 1 with printed number

APPLICATIONS

Primarily used for connecting power devices in commercial and industrial environments. Suitable for installation in channels, ducts, wireways, cable trays and raceways. Approved for direct burial in wet or dry locations and outdoors in cable trays where a sunlight-resistant rating is required. Cable constructed and listed for applications requiring TC-ER-JP rating. Approved for Class I Division II Hazardous Locations.

<table>
<thead>
<tr>
<th>Size (AWG)</th>
<th>Size of Ground Wire (AWG)</th>
<th>Outer Jacket Thickness PVC (in)</th>
<th>Outside Diameter (in)</th>
<th>Approximate Net Weight (lbs/1000 ft)</th>
<th>Allowable Ampacity (Amps)</th>
<th>Standard Packaging (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14/2</td>
<td>14 AWG Green Insulated</td>
<td>0.045</td>
<td>0.350</td>
<td>79</td>
<td>15</td>
<td>1000’ 5000’ Reels</td>
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<td>14/3</td>
<td>14 AWG Green Insulated</td>
<td>0.045</td>
<td>0.380</td>
<td>99</td>
<td>15</td>
<td>1000’ 5000’ Reels</td>
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<td>14/4</td>
<td>14 AWG Green Insulated</td>
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<td>0.413</td>
<td>118</td>
<td>15</td>
<td>1000’ 5000’ Reels</td>
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<tr>
<td>12/2</td>
<td>12 AWG Green Insulated</td>
<td>0.045</td>
<td>0.390</td>
<td>101</td>
<td>20</td>
<td>1000’ 5000’ Reels</td>
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<tr>
<td>12/3</td>
<td>12 AWG Green Insulated</td>
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<td>0.420</td>
<td>130</td>
<td>25</td>
<td>1000’ 5000’ Reels</td>
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<tr>
<td>10/2</td>
<td>10 AWG Green Insulated</td>
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<td>1000’ 5000’ Reels</td>
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<tr>
<td>10/3</td>
<td>10 AWG Green Insulated</td>
<td>0.045</td>
<td>0.500</td>
<td>207</td>
<td>35</td>
<td>1000’ 5000’ Reels</td>
</tr>
</tbody>
</table>

1 Ampacity of conductors are based on NFPA 70 (NEC) Section 402.5. See 310.15(B)(16), 110.14(C) and 240.4(D) for other limitations where applicable.
60°C when terminated to equipment for circuits rated 100 amperes or less or marked for size 14 AWG through 1 AWG conductor.
75°C when terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.
90°C for ampacity derating purposes.

1 When the neutral is considered current-carrying conductor, the ampacity of 4/C cables shall be reduced by a factor of 0.80 per NEC 310.15(B)(3)(a).
2 The above data is approximate and subject to normal manufacturing tolerances.

PRINT LEGEND: ENCORE WIRE CORPORATION (size) W/G TYPE TC-ER-JP CABLE THHN OR THWN-2 CDRS SUN-RES 600V DIR-BUR (UL) DATE/TIME/OPER/QC