**ENGINEERING SPECIFICATIONS**

**Standards**
Underwriters Laboratories Standard UL-44, UL-1277, UL-1581, UL-1685, UL-2556; Federal Specification A-A-59644; ASTM Stranding Class B3, B8 and B787; NEMA WC-70/ICEA S-95-658; NFPA 70 (NEC®) Article 336, 392; UL-1685 Method 1 (70,000 Btu/hr) Flame Test; NEMA WC 57/ICEA 5-73-532; IEC6 T-29-520 (210,000 Btu/hr) Flame Test; ARRA 2009 Section 1605 “Buy American” Compliant; RoHS Compliant; MasterSpec Division 26 Sections 260519, 260523; IEEE 1202 (F4) optional. UL Listing #E-179429

**CONSTRUCTION**

**Conductors**
Bare, soft-annealed stranded copper conductors per ASTM-B3, ASTM-B8 and ASTM-B787

**Insulation**
Cross-linked polyethylene (XLPE) High Heat Water Resistant. Rated for use in wet or dry locations at temperatures not to exceed 90°C dry or wet to meet UL-44 requirements for type XHHW-2 wire. Suitable for use in low-leaking circuits requiring a dielectric constant of 3.5 or less.

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

**Color Coding**
Black insulation with ICEA Method 4 printed number

**Overall Jacket**
Flame retardant, sunlight-resistant, black PVC jacket. Sunlight-resistant overall jacket available in all colors by request. Also available in chlorinated polyethylene jacket (CPE) by request.

**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 sunlight-resistant rating is required. Cable sizes 8 AWG - 6 AWG are listed with TC-ER-JP rating. Approved for Class I Division II Hazardous Locations.

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<table>
<thead>
<tr>
<th>Size (AWG)</th>
<th>No. of Conductors</th>
<th>Outside Jacket Thickness PVC (in)</th>
<th>Allowable Amperity (Amps)</th>
<th>Outside Diameter (in)</th>
<th>Approximate Net Weight (lbs/1000 ft)</th>
<th>Standard Packaging (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
<td>0.060</td>
<td>0.660</td>
<td>0.705</td>
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<td>0.100</td>
<td>1.054</td>
<td>1.155</td>
<td>950</td>
<td>1000' 1200' Reels</td>
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<td>3</td>
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<td>1.182</td>
<td>1.252</td>
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<td>1000' 1435' Reels</td>
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<tr>
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<td>1.605</td>
<td>1.655</td>
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</tbody>
</table>

1. 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.
2. 60°C when terminated to equipment for circuits rated 100 amperes or less or marked for size 14 AWG through 1 AWG conductor.
3. 75°C when terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.
4. 90°C for ampacity derating purposes.
5. When the neutral is considered current-carrying conductor, the ampacity of 4C cables shall be reduced by a factor of 0.80 per NEC 310.15(B)(3)(a).
6. The above data is approximate and subject to normal manufacturing tolerances.
7. 8 AWG THROUGH 4/0 AWG ARE 19 STRANDS PER CONDUCTOR

2. Type TC only PRINT LEGEND: ENCORE WIRE CORPORATION (www) TYPE TC CABLE XHHW-2 CDRS SUN-RES 600V DIR-BUR (UL) DATE/TIME/OPER/QC
ENGINEERING SPECIFICATIONS

Standards
Underwriters Laboratories Standard UL-44, UL-1277, UL-1581, UL-1685, UL-2556; Federal Specification A-A-59544; ASTM Stranding Class B3, B8 and B787; NEMA WC-70/ICEA S-95-658; NFPA 70 (NEC®) Article 336, 392; UL-1685 Method 1 (70,000 Btu/hr) Flame Test; NEMA WC 57/ICEA 5-73-532; 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; IEEE 1202 (FT4) optional. UL Listing #E-179429

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<th>Outside Diameter (in)</th>
<th>Approximate Net Weight (lbs/1000 ft)</th>
<th>Standard Packaging (ft)</th>
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<tr>
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<td>1000' 1500' Reels</td>
</tr>
</tbody>
</table>

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The above data is approximate and subject to normal manufacturing tolerances.
250 KCMIL through 750 KCMIL is rated as Type TC Only.

PRINT LEGEND: ENCORE WIRE CORPORATION (size) TYPE TC CABLE XHHW-2 CDRS SUN-RES 600V DIR-BUR (UL) DATE/TIME/OPR/QC