## THERMOCOUPLE EXTENSION CABLE - EX

600 Volt UL Type TC, 90°C
Single & Multiple Pairs
Individual & Overall Shield
FR-XLP or FR-EP Insulation & CPE Jacket
Solid Alloy Conductors

### APPLICATION:
Superior flame-retardant cable for use in thermocouple extension applications in caustic environments where protection from electrostatic interference is required. UL listed as Type TC and approved for installation indoors or outdoors, aerially, in conduits, ducts and cable trays. May be installed at temperatures as low as -35°C and used in NEC Class 1, Division 2 hazardous locations.

### CONDUCTORS:
Annealed, solid thermocouple extension grade alloys calibrated to standard limits of error per ANSI-MC96.1

### INSULATION:
Flame-retardant ethylene propylene rubber (FR-EP) color coded per ANSI-MC96.1. Flame-retardant cross-linked polyethylene per ICEA S-66-524

### INDIVIDUAL SHIELD:
Aluminum-polymer tape providing 100% coverage with a flexible 7-strand tinned copper drain wire

### COMMUNICATION WIRE:
Multipair constructions contain a bare copper orange PVC-insulated communication wire

### OVERALL SHIELD:
Aluminum-polymer tape providing 100% coverage with a flexible 7-strand tinned copper drain wire

### JACKET:
Sunlight-resistant chlorinated polyethylene (CPE) color coded per ANSI-MC96.1. A ripcord is applied longitudinally under the jacket to facilitate stripping

### FLAME TESTS:
- IEEE 383 (70,000 BTU/hr) Flame Test
- IEEE 1202 (70,000 BTU/hr)
- UL Standard 13 (70,000 BTU/hr) Flame Test
- CSA FT4 Flame Test

### TYPE DESIGNATIONS

<table>
<thead>
<tr>
<th>ASA Type</th>
<th>Alloys</th>
<th>Insulation Colors</th>
<th>Jacket Color</th>
<th>Range</th>
<th>Limits of Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>EX</td>
<td>Chromel, Constantan</td>
<td>Purple, Red</td>
<td>Purple</td>
<td>0 to +200</td>
<td>+/- 1.7°C</td>
</tr>
<tr>
<td>JX</td>
<td>Iron, Constantan</td>
<td>White, Red</td>
<td>Black</td>
<td>0 to +200</td>
<td>+/- 2.2°C</td>
</tr>
<tr>
<td>KX</td>
<td>Chromel, Alumel</td>
<td>Yellow, Red</td>
<td>Yellow</td>
<td>0 to +200</td>
<td>+/- 2.2°C</td>
</tr>
<tr>
<td>TX</td>
<td>Copper, Constantan</td>
<td>Blue, Red</td>
<td>Blue</td>
<td>0 to +100</td>
<td>+/- 1.0°C</td>
</tr>
</tbody>
</table>

Note: One conductor in each pair is sequentially numbered for identification.
**THERMOCOUPLE EXTENSION CABLE - JX**

**600 Volt UL Type TC, 90°C**

**Single & Multiple Pairs**

**Individual & Overall Shield**

**FR-XLP or FR-EP Insulation & CPE Jacket**

**Solid Alloy Conductors**

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<tr>
<th>Catalog Number</th>
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<th>Number of Pairs</th>
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<th>Jacket Thickness Mils</th>
<th>Overall Diameter Inches</th>
<th>Net Weight Lbs/Mft</th>
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</thead>
<tbody>
<tr>
<td>HW113 1601J</td>
<td>JX</td>
<td>16</td>
<td>1</td>
<td>25</td>
<td>50</td>
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<tr>
<td>HW113 2004J</td>
<td>JX</td>
<td>20</td>
<td>4</td>
<td>25</td>
<td>55</td>
<td>0.44</td>
<td>96</td>
</tr>
<tr>
<td>HW113 2008J</td>
<td>JX</td>
<td>20</td>
<td>8</td>
<td>25</td>
<td>55</td>
<td>0.55</td>
<td>156</td>
</tr>
<tr>
<td>HW113 2012J</td>
<td>JX</td>
<td>20</td>
<td>12</td>
<td>25</td>
<td>65</td>
<td>0.66</td>
<td>226</td>
</tr>
</tbody>
</table>

**APPLICATION:**

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<th>Positive</th>
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<tr>
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Note: One conductor in each pair is sequentially numbered for identification.
THERMOCOUPLE EXTENSION CABLE - KX

600 Volt UL Type TC, 90°C
Single & Multiple Pairs
Individual & Overall Shield
FR-XLP or FR-EP Insulation & CPE Jacket
Solid Alloy Conductors

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<tr>
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<tbody>
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<td>1</td>
<td>25</td>
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<tr>
<td>HW113 2012K</td>
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