## Product Description

High Temperature Electronic, 2 Conductor 18AWG (19x30) Tinned Copper, FEP Insulation, Overall Beldfoil® Shield, FEP Outer Jacket, CMP

## Technical Specifications

### Product Overview

| Suitable Applications: | Wet Locations, POS, Gas/Vapor Tight Jacket, Plenums, Risers, Oil and Gasoline Exposure |

### Physical Characteristics (Overall)

#### Conductor

<table>
<thead>
<tr>
<th>AWG</th>
<th>Stranding</th>
<th>Material</th>
<th>No. of Pairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>19x30</td>
<td>TC - Tinned Copper</td>
<td>1</td>
</tr>
</tbody>
</table>

**Conductor Count:** 2  
**Total Number of Pairs:** 1

#### Insulation

<table>
<thead>
<tr>
<th>Material</th>
<th>Nominal Wall Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEP - Fluorinated Ethylene Propylene</td>
<td>0.007 in</td>
</tr>
</tbody>
</table>

#### Color Chart

<table>
<thead>
<tr>
<th>Number</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Black &amp; Red</td>
</tr>
</tbody>
</table>

#### Outer Shield Material

<table>
<thead>
<tr>
<th>Type</th>
<th>Material</th>
<th>Material Trade Name</th>
<th>Coverage (%)</th>
<th>Drainwire Material</th>
<th>Drainwire AWG</th>
<th>Drainwire Construction n x D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tape</td>
<td>Aluminum/Polyester</td>
<td>Beldfoil® with shorting fold</td>
<td>100%</td>
<td>TC - Tinned Copper</td>
<td>20</td>
<td>Stranded</td>
</tr>
</tbody>
</table>

#### Outer Jacket Material

<table>
<thead>
<tr>
<th>Material</th>
<th>Nominal Diameter</th>
<th>Nominal Wall Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEP - Fluorinated Ethylene Propylene</td>
<td>0.143 in</td>
<td>0.014 in</td>
</tr>
</tbody>
</table>

### Construction and Dimensions

#### Stranding

<table>
<thead>
<tr>
<th>Lay Direction</th>
<th>Twists</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Hand</td>
<td>6 twist/ft</td>
</tr>
</tbody>
</table>

### Electrical Characteristics

#### Conductor DCR

<table>
<thead>
<tr>
<th>Nominal Conductor DCR</th>
<th>Nominal Outer Shield DCR</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.5 Ohm/1000ft</td>
<td>7.3 Ohm/1000ft</td>
</tr>
</tbody>
</table>

#### Capacitance

<table>
<thead>
<tr>
<th>Nom. Capacitance Conductor to Conductor</th>
<th>Nom. Capacitance Conductor to Other Conductor to Shield</th>
</tr>
</thead>
<tbody>
<tr>
<td>51 pF/ft</td>
<td>97 pF/ft</td>
</tr>
</tbody>
</table>
### Inductance
- **Nominal Inductance**: 0.15 µH/ft

### Impedance
- **Nominal Characteristic Impedance**: 29 Ohm

### Delay
- **Nominal Delay**
  - 1.47 ns/ft
  - Nominal Velocity of Propagation (VP) [%]: 69%

### Current
- **Max. Recommended Current [A]**
  - 5.4 Amps per conductor @ 25°C ambient

### Voltage
- **UL Voltage Rating**: 300 V RMS

### Temperature Range
- **Operating Temp Range**: -70°C To +200°C

### Mechanical Characteristics
- **Oil Resistance**: Yes
- **Bulk Cable Weight**: 23 lbs/1000 ft
- **Max Recommended Pulling Tension**: 64 lbs
- **Min Bend Radius/Minor Axis**: 1.5 in

### Standards
- **NEC Articles**: 800
- **NEC/(UL) Specification**: CMP
- **CEC/C(UL) Specification**: CMP
- **CPR Euroclass**: Eca

### Applicable Environmental and Other Programs
- **EU Directive 2000/53/EC (ELV)**: Yes
- **EU Directive 2003/96/EC (BFR)**: Yes
- **EU Directive 2011/65/EU (ROHS II)**: Yes
- **EU Directive 2012/19/EU (WEEE)**: Yes
- **EU Directive 2015/863/EU**: Yes
- **EU CE Mark**: Yes
- **EU RoHS Compliance Date (yyyy-mm-dd)**: 2005-04-01
- **CA Prop 65 (CJ for Wire & Cable)**: Yes
- **MII Order #39 (China RoHS)**: Yes

### Suitability
- **Suitability - Burial**: Yes
- **Suitability - Indoor**: Yes
- **Suitability - Oil Resistance**: Yes
- **Suitability - Outdoor**: Yes
- **Suitability - Sunlight Resistance**: Yes

### Flammability, LS0H, Toxicity Testing
- **UL Flammability**: NFPA 262
- **CSA Flammability**: FT6
- **ISO/IEC Flammability**: IEC 60332-1-2
- **UL voltage rating**: 300 V RMS
Plenum/Non-Plenum

Plenum (Y/N): Yes

Part Number

Non-Plenum Number: 8760

Variants

<table>
<thead>
<tr>
<th>Item #</th>
<th>Color</th>
<th>UPC</th>
<th>Length</th>
<th>Footnote</th>
</tr>
</thead>
<tbody>
<tr>
<td>88760 002100</td>
<td>Red</td>
<td>612825217275</td>
<td>100 ft</td>
<td></td>
</tr>
<tr>
<td>88760 0021000</td>
<td>Red</td>
<td>612825217282</td>
<td>1,000 ft</td>
<td>C</td>
</tr>
<tr>
<td>88760 00210000</td>
<td>Red</td>
<td>612825217299</td>
<td>10,000 ft</td>
<td>C Z</td>
</tr>
<tr>
<td>88760 00220000</td>
<td>Red</td>
<td>612825217305</td>
<td>20,000 ft</td>
<td>C Y</td>
</tr>
<tr>
<td>88760 002500</td>
<td>Red</td>
<td>612825217312</td>
<td>500 ft</td>
<td>C</td>
</tr>
<tr>
<td>88760 0025000</td>
<td>Red</td>
<td>612825217329</td>
<td>5,000 ft</td>
<td></td>
</tr>
<tr>
<td>88760 002U1000</td>
<td>Red</td>
<td>612825217251</td>
<td>1,000 ft</td>
<td></td>
</tr>
<tr>
<td>88760 002U500</td>
<td>Red</td>
<td>612825217268</td>
<td>500 ft</td>
<td></td>
</tr>
</tbody>
</table>

Footnote: C - CRATE REEL PUT-UP

Footnote: Z - FINAL PUT-UP MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Footnote: Y - FINAL PUT-UP LENGTH MAY VAR -10% TO +20% FROM LENGTH SHOWN. MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

Product Notes

Notes: For use in indoor plenum environments but also suitable for outdoor and underground applications. Gas/vapor-tight jacket.

History

Update and Revision: Revision Number: 0.308 Revision Date: 08-22-2019

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