### General Description:
22 AWG stranded (7x30) TC conductors, plenum, FEP insulation, twisted pairs, individually shielded w/Beldfoil® (100% coverage), 22 AWG stranded TC drain wire, Flamarrest® jacket.

### Physical Characteristics (Overall)

#### Conductor

<table>
<thead>
<tr>
<th># Pairs</th>
<th>AWG</th>
<th>Stranding</th>
<th>Conductor Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>22</td>
<td>7x30</td>
<td>TC - Tinned Copper</td>
</tr>
</tbody>
</table>

**Total Number of Conductors:** 4

#### Insulation

<table>
<thead>
<tr>
<th>Insulation Material</th>
<th>Wall Thickness (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEP - Fluorinated Ethylene Propylene</td>
<td>0.007</td>
</tr>
</tbody>
</table>

#### Inner Shield

**Inner Shield Trade Name:** Beldfoil® (Z-Fold®)  
**Inner Shield Type:** Tape  
**Inner Shield Material:** Aluminum Foil-Polyester Tape  
**Coverage (%):** 100

**Inner Shield Drain Wire AWG:**

<table>
<thead>
<tr>
<th>AWG</th>
<th>Stranding</th>
<th>Conductor Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>7x32</td>
<td>TC - Tinned Copper</td>
</tr>
</tbody>
</table>

#### Outer Shield

**Outer Shield Material:** Unshielded

#### Outer Jacket

**Outer Jacket Trade Name:** Flamarrest®  
**Outer Jacket Material:** LS PVC - Low Smoke Polyvinyl Chloride  
**Nom. Wall Thickness (in.):** 0.017

#### Overall Cable

**Overall Nominal Diameter:** 0.153 in.

#### Pair

**Pair Color Code Chart:**

<table>
<thead>
<tr>
<th>Number</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Red &amp; Black</td>
</tr>
<tr>
<td>2</td>
<td>Green &amp; White</td>
</tr>
</tbody>
</table>

#### Mechanical Characteristics (Overall)

- **Operating Temperature Range:** -20°C To +90°C
- **Bulk Cable Weight:** 19 lbs/1000 ft.
- **Max. Recommended Pulling Tension:** 46 lbs.
- **Min. Bend Radius/Minor Axis:** 1.750 in.

#### Applicable Specifications and Agency Compliance (Overall)

**Applicable Standards & Environmental Programs**

- **NEC/(UL) Specification:** CMP
- **NEC Articles:** 800
- **CEC/(UL) Specification:** CMP
82723 Multi-Conductor - Double-Pair Cable

EU Directive 2011/65/EU (ROHS II): Yes
EU CE Mark: Yes
EU Directive 2002/95/EC (RoHS): Yes
EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005
EU Directive 2002/96/EC (WEEE): Yes
CA Prop 65 (CJ for Wire & Cable): Yes
MII Order #39 (China RoHS): Yes

Flame Test
UL Flame Test: NFPA 262
CSA Flame Test: FT6

Suitability
Suitability - Indoor: Yes

Plenum/Non-Plenum
Plenum (Y/N): Yes
Non-Plenum Number: 8723

Electrical Characteristics (Overall)
Nom. Characteristic Impedance:
| Impedance (Ohm) | 36 |
Nom. Capacitance Conductor to Conductor:
| Capacitance (pF/ft) | 43 |
Nom. Capacitance Cond. to Other Conductor & Shield:
| Capacitance (pF/ft) | 75 |
Nominal Velocity of Propagation:
| VP (%) | 62 |
Nom. Conductor DC Resistance:
| DCR @ 20°C (Ohm/1000 ft) | 14.7 |
Nom. Inner Shield DC Resistance:
| DCR @ 20°C (Ohm/1000 ft) | 15 |
Max. Operating Voltage - UL:
| Voltage | 300 V RMS |
Max. Recommended Current:
| Description | Current |
| 105° temperature rise | 2.3 Amps per conductor @25°C ambient |

Put Ups and Colors:
<table>
<thead>
<tr>
<th>Item #</th>
<th>Putup</th>
<th>Ship Weight</th>
<th>Color</th>
<th>Notes</th>
<th>Item Desc</th>
</tr>
</thead>
<tbody>
<tr>
<td>82723 877U1000</td>
<td>1,000 FT</td>
<td>20.000 LB</td>
<td>NATURAL</td>
<td></td>
<td>2 PR #22 FEP FS FLRST</td>
</tr>
<tr>
<td>82723 877U2000</td>
<td>2,000 FT</td>
<td>40.000 LB</td>
<td>NATURAL</td>
<td></td>
<td>2 PR #22 FEP FS FLRST</td>
</tr>
<tr>
<td>82723 877U500</td>
<td>500 FT</td>
<td>10.500 LB</td>
<td>NATURAL</td>
<td></td>
<td>2 PR #22 FEP FS FLRST</td>
</tr>
<tr>
<td>82723 8771000</td>
<td>1,000 FT</td>
<td>20.000 LB</td>
<td>NATURAL</td>
<td>C</td>
<td>2 PR #22 FEP FS FLRST</td>
</tr>
<tr>
<td>82723 8775000</td>
<td>5,000 FT</td>
<td>100.000 LB</td>
<td>NATURAL</td>
<td></td>
<td>2 PR #22 FEP FS FLRST</td>
</tr>
</tbody>
</table>

Notes:
C = CRATE REEL PUT-UP.
Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

82723 Multi-Conductor - Double-Pair Cable

Revision Number: 3    Revision Date: 08-02-2013

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