**PHYSICAL**
- Conductor(s): 30 AWG 7/38 Tinned Copper
- Insulation: .006” HF–FR Polyolefin
- Laminate: Polyester/Adhesive
- Color Code: 1st Pair Red/White followed by Blue/White and Repeat
- Drain: (2) 28 AWG 7/36 Tinned Copper
- Shield: .001” Aluminum/Polyester
- Braid: Tinned Copper, 85% Min Coverage
- Jacket: .030” Green HF–FR Polyolefin
- Temperature: 80°C

**ELECTRICAL**
- Impedance: 90 ohms
- Capacitance: TBD pF/ft
- Current Rating: .75 A @ 10°C Rise Above Ambient
- Insulation Res: $10^{10}$ ohms – 10 ft minimum
- Values Measured Differentially

**APPROVALS:**
- UL Pending

**Cross Section at Flat**
- Td Cu Braid
- Al/Poly Shield

**Part Number**
- 168–3099–993

**Count**
- 34

**Pairs**
- 17

**A-Span**
- .851” Nom

**B-Span**
- 0.825” Nom @ loose Pairs 0.300”

**Ref. Dia (Nom. EST.)**
- 304,8 ±12,70 mm (12.0 ±0.50”) and Repeat.
<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>STANDARD</th>
<th>REQUIREMENTS</th>
<th>CABLE INSULATION AND LAMINATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAME AND FIRE PROPAGATION:</td>
<td>IEC 332–1</td>
<td>PASS</td>
<td>PASS</td>
</tr>
<tr>
<td>SMOKE DENSITY:</td>
<td>ASTM E 662</td>
<td>$D_9 &lt; 250$ FLAMING AND NON–FLAMING MODES</td>
<td>FLAMING – 15/47, NONFLAMING – 0/25</td>
</tr>
<tr>
<td>TOXICITY OF FIRE GASSES:</td>
<td>IEC 1034–1 AND –2</td>
<td>PASS</td>
<td>PASS</td>
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<tr>
<td></td>
<td>ATS 1000.001</td>
<td>HF &lt;100</td>
<td>HF &lt;100</td>
</tr>
<tr>
<td>CORROSIVITY OF FIRE GASSES:</td>
<td>IEC 754–2</td>
<td>HCl &lt;150</td>
<td>HCl &lt;150</td>
</tr>
<tr>
<td>UV RESISTANCE:</td>
<td>IEC 68–2–5</td>
<td>HCN &lt;150</td>
<td>HCN &lt;150</td>
</tr>
<tr>
<td>RADIATION RESISTANCE:</td>
<td>IEC 544–2–5</td>
<td>$SO_2 + H_2 S &lt;100$</td>
<td>$SO_2 + H_2 S &lt;100$</td>
</tr>
<tr>
<td>ACID GAS GENERATION:</td>
<td>MIL–C–24643</td>
<td>CO &lt;3500</td>
<td>CO &lt;3500</td>
</tr>
<tr>
<td>SMOKE INDEX:</td>
<td>NES–711</td>
<td>NO + NO &lt;100</td>
<td>NO + NO &lt;100</td>
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<tr>
<td>TOXICITY INDEX:</td>
<td>NES–713</td>
<td>pH &gt;4, CONDUCTIVITY &lt;100uS/cm</td>
<td>pH = 4.5, CONDUCTIVITY = NO</td>
</tr>
<tr>
<td>LIMITING OXYGEN INDEX:</td>
<td>ASTM D 2863</td>
<td>NO DISCOLORATION OR STICKINESS INDEX &gt;5.7</td>
<td>NA</td>
</tr>
</tbody>
</table>

ASTM E662: STANDARD TEST METHOD FOR SPECIFIC OPTICAL DENSITY OF SMOKE
ATS 1000.001: AIRBUS INDUSTRY TECHNICAL SPECIFICATION, FIRE TEST SPECIFICATION
IEC 68–2–5: SIMULATED SOLAR RADIATION AT GROUND LEVEL
IEC 332–1: TESTS ON ELECTRIC CABLES UNDER FIRE CONDITIONS
IEC 544–2–5: GUIDE FOR DETERMINING THE EFFECTS OF IONIZING RADIATION ON INSULATING MATERIALS
IEC 754–2: TEST ON GASES EVOLVED DURING COMBUSTION OF ELECTRIC CABLES
IEC 1034–1–2: TEST FOR THE MEASUREMENT OF SMOKE DENSITY OF ELECTRIC CABLES BURNING UNDER DEFINED CONDITIONS

PRELIMINARY