Siemon’s Category 7 600 MHz cable perfectly complements the performance of our TERA outlets. Siemon cable exceeds all ISO/IEC requirements for category 7/class F transmission performance beyond 600 MHz. A fully shielded cable with individual foils around each pair coupled with an outer braid provides perfect immunity from outside interferences. In addition, the cable jacket has been qualified for mechanical reliability in high temperature environments up to 75°C. In PoE remote power applications, this cable can be installed in environments up to 60°C and will not experience degradation due to heat rise inside the cable bundle. Siemon cable is the ideal way to ensure optimum channel performance and is essential for a complete end-to-end warranted solution.

CABLE FEATURES

- S/FTP
- Nominal jacket OD: 7.3 mm (0.29 in.)
- 23 AWG 0.57 mm (0.022 in.) solid (non-tinned) copper
- Sequential measurement markings on jacket
- Pairs individually shielded with aluminum-polyester foil
- Overall tinned-copper braid
- 75°C temperature rating

STANDARDS COMPLIANCE

- ISO/IEC 11801-1 Ed 1.0 (Class F)
- EN 50173 (Class F)
- IEC 61156-5 (Category 7)
- EN 50288-4-1 (Category 7)
- ISO/IEC 14763-2 (Segregation Class d)
- EN 50174-2 (Segregation Class d)
- EN 55022, EN 55024
- EN 55075 Class B2
- IEC 60332-1, IEC 60332-3-22, IEC 60754, IEC 61034

APPLICATIONS SUPPORT

- 10GBASE-T
- 1000BASE-T
- 100BASE-T
- IEEE 802.3af (Type 1 PoE)
- IEEE 802.3at (Type 2 PoE)
- IEEE 802.3bt (Type 3 PoE)
- IEEE 802.3bt (Type 4 PoE)
- Power over HDBaseT (PoH)
**Product Information**

**ELECTRICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>DC Resistance</td>
<td>&lt;7.32 Ω/100m</td>
</tr>
<tr>
<td>DC Resistance Unbalance</td>
<td>2%</td>
</tr>
<tr>
<td>Mutual Capacitance</td>
<td>5.6 nF/100m</td>
</tr>
<tr>
<td>Capacitance Unbalance</td>
<td>&lt;160 pF/100m</td>
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<tr>
<td>Characteristic Impedance (ohms)</td>
<td>1-100 MHz: 100 ± 15%</td>
</tr>
<tr>
<td></td>
<td>100-600 MHz: 100 ± 22%</td>
</tr>
<tr>
<td>NVP</td>
<td>72%</td>
</tr>
<tr>
<td>TCL</td>
<td>40-10 log(I/100) dB</td>
</tr>
<tr>
<td>Delay Skew</td>
<td>≤25 ns/100m</td>
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</tbody>
</table>

**PHYSICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>LS0H</td>
<td></td>
</tr>
<tr>
<td>Pulling Tension (max)</td>
<td>80N (18 lbf)</td>
</tr>
<tr>
<td>Bend Radius (min)</td>
<td>50mm (2.0 in.)</td>
</tr>
<tr>
<td>Installation Temperature</td>
<td>0 to 75°C (-32 to 167°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20 to 75°C (-4 to 167°F)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-20 to 75°C (-4 to 167°F)</td>
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</table>

**TRANSMISSION PERFORMANCE**

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Insertion Loss (dB/100)</th>
<th>NEXT (dB)</th>
<th>PS NEXT (dB)</th>
<th>ACR-N (dB)</th>
<th>PSACR-N (dB)</th>
<th>ACR-F (dB)</th>
<th>PSACR-F (dB)</th>
<th>Return Loss (dB)</th>
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<tbody>
<tr>
<td>1.0</td>
<td>2.1</td>
<td>1.8</td>
<td>78.0</td>
<td>103.7</td>
<td>75.0</td>
<td>110.0</td>
<td>75.9</td>
<td>101.9</td>
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<tr>
<td>4.0</td>
<td>3.7</td>
<td>3.4</td>
<td>78.0</td>
<td>106.8</td>
<td>75.0</td>
<td>117.2</td>
<td>74.3</td>
<td>103.4</td>
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<tr>
<td>10.0</td>
<td>5.8</td>
<td>5.3</td>
<td>78.0</td>
<td>111.6</td>
<td>75.0</td>
<td>121.1</td>
<td>72.2</td>
<td>106.3</td>
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<tr>
<td>16.0</td>
<td>7.3</td>
<td>6.8</td>
<td>78.0</td>
<td>113.9</td>
<td>75.0</td>
<td>121.9</td>
<td>70.7</td>
<td>107.0</td>
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<td>75.0</td>
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<td>69.8</td>
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<tr>
<td>31.25</td>
<td>10.3</td>
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<td>78.0</td>
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<td>17.7</td>
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<td>117.5</td>
<td>59.5</td>
<td>90.6</td>
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<td>73.9</td>
<td>112.5</td>
<td>70.9</td>
<td>118.7</td>
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<td>87.3</td>
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<td>28.3</td>
<td>72.4</td>
<td>108.6</td>
<td>69.4</td>
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<td>80.3</td>
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<td>31.1</td>
<td>71.2</td>
<td>106.2</td>
<td>68.2</td>
<td>112.2</td>
<td>38.6</td>
<td>75.1</td>
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<td>400.0</td>
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<td>108.0</td>
<td>66.4</td>
<td>116.9</td>
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<td>71.9</td>
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<tr>
<td>500.0</td>
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<td>40.4</td>
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<td>97.0</td>
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<td>850.0</td>
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<td>53.9</td>
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<td>82.2</td>
<td>-</td>
<td>94.7</td>
<td>-</td>
<td>28.4</td>
</tr>
</tbody>
</table>

*Values above 600 MHz are for information only. All performance based on 100 meters (328 ft.).

**GUARANTEED WORST CASE**

**SIEMON TYPICAL**

**Part Number**

- 9T7L4-E6 ...............LS0H (IEC 60332-1), violet jacket, Class Ea, Da, Ca, B2ca, 305m (1000 ft.)
- 9T7L4-E6-SCR .........LS0H (IEC 60332-1), violet jacket, Class Ea, Da, Ca, B2ca, B2ca, 500m (1640 ft.)
- 9T7L4-E6-1KR ..........LS0H (IEC 60332-1), violet jacket, Class Ea, Da, Ca, B2ca, 1000m (3281 ft.)

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

**Ordering Information**

**Part Number**

- 9T7L4-E6 ...............LS0H (IEC 60332-1), violet jacket, Class Ea, Da, Ca, B2ca, 305m (1000 ft.)
- 9T7L4-E6-SCR .........LS0H (IEC 60332-1), violet jacket, Class Ea, Da, Ca, B2ca, B2ca, 500m (1640 ft.)
- 9T7L4-E6-1KR ..........LS0H (IEC 60332-1), violet jacket, Class Ea, Da, Ca, B2ca, 1000m (3281 ft.)

**North America**

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**Asia Pacific**

- P: (61) 2 8977 7500

**Latin America**

- P: (571) 657 1950/51/52

**Europe**

- P: (44) 0 1932 571771

**China**

- P: (86) 215385 0303

**India Middle East**

- P: (971) 4 3689743

Siemon Interconnect Solutions

P: (1) 860 945 4213

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