Category 6A UTP Cable - US

Siemon’s Category 6A UTP cable provides channel performance exceeding TIA and ISO/IEC 6A requirements when used with Z-MAX™ 6A UTP connectivity. Siemon’s category 6A UTP cable with cross separator uses a central pair separator for optimal pair-to-pair cross-talk isolation as well as Internal Longitudinal Striation (ILS™) jacket construction to reduce alien crosstalk (AXT) coupling between adjacent cables.

Compliance
- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568.2-D
- UL CMR and CSA FT4
- UL CMP and CSA FT6

Cable Construction
- UTP
- CMP Nominal Cable O.D.: 7.9mm (0.31 in.)
- CMR Nominal Cable O.D.: 8.3mm (0.326 in.)
- 0.56mm (0.022 in.) (23 AWG) solid bare copper
- Round jacket with Internal Longitudinal Striations (ILS)

Ethernet Applications Support
- 10GBASE-T
- 1000BASE-T
- 100BASE-T
- 10BASE-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)

Supports all applications designed for Category 6A or lower cabling

Jacket
- Nominal Cable O.D.: CMP – 7.9mm (0.310 in.)
  CMR – 8.3mm (0.326 in.)
- Jacket Material:
  CMP – FRPVC
  CMR – FRPVC

Cross Separator
- Maximizes geometric pair isolation

Conductor
- 23AWG X 4P solid bare copper
  0.56mm (0.022 in.)

Insulation
- Conductor Insulation
  CMP – FEP
  CMR – HDPE
  MAX DIA = 1.17mm (0.046 in.)

Internal Longitudinal Striations (ILS)
- Maintains centric cable core positioning and ensures proper isolation between adjacent cable

Ripcord

Ordering Information

9C6(X)4-A5-(XX)AR1A - 305m (1000 ft.) Reel

Jacket Material | Jacket Color
--- | ---
P = Plenum (CMP, CSA FT6) | 01 = Black
R = Riser (CMR, CSA FT4) | 02 = White
03 = Red
04 = Gray
05 = Yellow
06 = Blue
07 = Green
08 = Violet
09 = Orange

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## Product Information

### Electrical Specifications

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>DC Resistance</td>
<td>9.380/100m @ 20°C</td>
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<tr>
<td>DC Resistance Unbalance</td>
<td>4% @ 20°C</td>
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<tr>
<td>Mutual Capacitance</td>
<td>5.6 nF/100m</td>
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<tr>
<td>Capacitance Unbalance</td>
<td>330 pF/100m</td>
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<tr>
<td>Characteristic Impedance (ohms)</td>
<td>1 - 100 MHz: 100 ± 15%</td>
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<td>100 - 200 MHz: 100 ± 22%</td>
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<td>200 - 500 MHz: 100 ± 32%</td>
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<td>NVP</td>
<td>67%</td>
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<tr>
<td>TCL</td>
<td>30-10 log(f/100) dB</td>
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<tr>
<td>PSANEXT</td>
<td>62.5-15 log(f/100) dB</td>
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<tr>
<td>PSAACRF</td>
<td>38.2-20 log(f/100) dB</td>
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<tr>
<td>Delay Skew</td>
<td>≤45ns/100m</td>
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<tr>
<td>PoE</td>
<td>Suitable for PoE Type 1,2,3,4</td>
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### Physical Properties

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<tr>
<th></th>
<th>CMP</th>
<th>CMR</th>
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<tr>
<td>Pulling Tension (max)</td>
<td>110N (25 lbf)</td>
<td>110N (25 lbf)</td>
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<tr>
<td>Bend Radius (min)</td>
<td>34mm (1.3 in.)</td>
<td>34mm (1.3 in.)</td>
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<tr>
<td>Installation Temperature</td>
<td>0 to 50°C (+32 to 122°F)</td>
<td>0 to 50°C (+32 to 122°F)</td>
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<tr>
<td>Storage Temperature</td>
<td>-20 to 75°C (-4 to 167°F)</td>
<td>-20 to 75°C (-4 to 167°F)</td>
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<tr>
<td>Operating Temperature</td>
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<td>-20 to 75°C (-4 to 167°F)</td>
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### Transmission Performance

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<tr>
<th>Test Parameter</th>
<th>Frequency (MHz)</th>
<th>1.0</th>
<th>4.0</th>
<th>10.0</th>
<th>16.0</th>
<th>20.0</th>
<th>31.25</th>
<th>62.5</th>
<th>100.0</th>
<th>160.0</th>
<th>200.0</th>
<th>250.0</th>
<th>300.0</th>
<th>400.0</th>
<th>500.0</th>
<th>550.0*</th>
<th>625.0*</th>
<th>750.0*</th>
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<td>Insertion Loss (dB)</td>
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* Values above 500 MHz are informational only.

All performance based on 100 meters (328 ft.).

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

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