SYSTIMAX® GigaSPEED® X10D 91 U/UTP Series Cable

The SYSTIMAX® GigaSPEED® X10D U/UTP 91 series cable exhibits an order of magnitude improvement in alien crosstalk, enabled via an optimized twist and strand scheme, dramatically enhancing high-frequency performance using the CommScope Labs Cable Twist Accuracy Technology.

The GigaSPEED X10D U/UTP 91 series cables have been optimized with the GigaSPEED X10D connectors and cords to minimize internal channel crosstalk, and also crosstalk between channels in close proximity. The 91 series cables incorporate a round smooth shape that speeds the handling and termination process. The cables have been designed to withstand an aggressive 6 around 1 channel test that CommScope Labs believes to be the most challenging test configuration. This is a powersum computation of the alien crosstalk noise from 24 pairs of 6 channels surrounding a single 4-pair channel. The 91 series cables have been specified out to 500 MHz to support high bandwidth applications operating at 10 Gb/s.

The 91 series cable is offered in plenum, non-plenum and low smoke zero halogen (LSZH) versions.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 1180:2001 Class E, and ANSI/TIA 568B.2-10 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D U/UTP Channel in registered SYSTIMAX installations
- 4-pair construction with finned inner jacket surface and bisector center member provides the extra margin of performance required for high-bandwidth applications
- ETL Listed - 1091 Riser rated CMR and CMG - 2091 Plenum rated CMP
- IEC Certified - 3091 LSZH rated IEC 60332-3
- Can support network line speeds up to 10 gigabits per second
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel
### PERFORMANCE SPECIFICATIONS:

<table>
<thead>
<tr>
<th></th>
<th>1091</th>
<th>2091</th>
<th>3091</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Outer Jacket OD</td>
<td>0.31” (7.87 mm)</td>
<td>0.31” (7.87 mm)</td>
<td>0.31” (7.87 mm)</td>
</tr>
<tr>
<td>Nominal Outer Jacket Thickness</td>
<td>0.06” (1.52 mm)</td>
<td>0.05” (1.27 mm)</td>
<td>0.06” (1.52 mm)</td>
</tr>
<tr>
<td>Maximum Pulling Tension</td>
<td>25 lbs (11.3 kg)</td>
<td>25 lbs (11.3 kg)</td>
<td>25 lbs (11.3 kg)</td>
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<tr>
<td>Nominal Cable Weight</td>
<td>40.6 lbs/kft (18.4 kg)</td>
<td>48.2 lbs/kft (21.9 kg)</td>
<td>40.7 lbs/kft (18.5 kg)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-4°F to 140°F (-20°C to 60°C)</td>
<td>-4°F to 140°F (-20°C to 60°C)</td>
<td>-4°F to 140°F (-20°C to 60°C)</td>
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<tr>
<td>Installation Temperature</td>
<td>32°F to 140°F (0°C to 60°C)</td>
<td>32°F to 140°F (0°C to 60°C)</td>
<td>32°F to 140°F (0°C to 60°C)</td>
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<tr>
<td>Conductor Diameter</td>
<td>23 AWG</td>
<td>23 AWG</td>
<td>23 AWG</td>
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<tr>
<td>Jacket Material</td>
<td>PVC</td>
<td>Low Smoke PVC</td>
<td>Low Smoke Zero Halogen</td>
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<tr>
<td>ETL Type</td>
<td>CMR, CMG</td>
<td>CMP</td>
<td>IEC 60332-3</td>
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### ELECTRICAL SPECIFICATIONS:

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<tr>
<td>Nominal Velocity of Propagation</td>
<td>65%</td>
<td>66%</td>
<td>65%</td>
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<tr>
<td>Maximum DC Resistance</td>
<td>8.0 Ohms/100 m</td>
<td>8 Ohms/100 m</td>
<td>8 Ohms/100 m</td>
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<tr>
<td>Maximum DC Resistance Unbalance</td>
<td>4%</td>
<td>4%</td>
<td>4%</td>
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<tr>
<td>Maximum Mutual Capacitance at 1 KHz</td>
<td>6.0 nF/100 m</td>
<td>6.0 nF/100 m</td>
<td>6.0 nF/100 m</td>
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<tr>
<td>Minimum Dielectric Strength</td>
<td>1500 VAC or 2500 VDC</td>
<td>1500 VAC or 2500 VDC</td>
<td>1500 VAC or 2500 VDC</td>
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<tr>
<td>Voltage Safety Rating</td>
<td>300 Volts per NEC 800.179</td>
<td>300 Volts per NEC 800.179</td>
<td>300 Volts per NEC 800.179</td>
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### NON PLENUM 1091 ORDERING INFORMATION

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<thead>
<tr>
<th>Material ID</th>
<th>Product Number</th>
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<th>Length</th>
<th>Package</th>
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<tbody>
<tr>
<td>760021683</td>
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### PLENUM 2091 ORDERING INFORMATION

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### LSZH 3091 ORDERING INFORMATION

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