Part Number: 7987R
NanoSkew™ 4-24 AWG pairs, CMR

Product Description
NanoSkew™ 24 AWG twisted pairs solid bare copper conductors, non-plenum, polyolefin insulation, skew 2.2ns/100m nominal, rip cord, PVC jacket.

Technical Specifications

Product Overview

Environmental Space:
Indoor - Riser

Suitable Applications:
Zero Skew, Low Skew, RJ45, UTP Based Video Applications, Not for data transmission requiring TIA/EIA Category qualifications, RGB

Physical Characteristics (Overall)

Conductor

<table>
<thead>
<tr>
<th>AWG</th>
<th>Stranding</th>
<th>Material</th>
<th>No. of Pairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>Solid</td>
<td>BC - Bare Copper</td>
<td>4</td>
</tr>
</tbody>
</table>

Conductor Count: 8
Total Number of Pairs: 4
Conductor Size: 24 AWG

Insulation

<table>
<thead>
<tr>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>PO - Polyolefin</td>
</tr>
</tbody>
</table>

Bonded-Pair: N/A

Color Chart

<table>
<thead>
<tr>
<th>Number</th>
<th>Color</th>
<th>Number</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>White/Blue Stripe &amp; Blue</td>
<td>3</td>
<td>White/Green Stripe &amp; Green</td>
</tr>
<tr>
<td>2</td>
<td>White/Orange Stripe &amp; Orange</td>
<td>4</td>
<td>White/Brown Stripe &amp; Brown</td>
</tr>
</tbody>
</table>

Outer Shield Material

<table>
<thead>
<tr>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unshielded</td>
</tr>
</tbody>
</table>

Outer Jacket Material

<table>
<thead>
<tr>
<th>Material</th>
<th>Nominal Diameter</th>
<th>Ripcord</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC - Polyvinyl Chloride</td>
<td>0.195 in</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Electrical Characteristics

Conductor DCR

<table>
<thead>
<tr>
<th>Max. Conductor DCR</th>
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</thead>
<tbody>
<tr>
<td>90 Ohm/km</td>
</tr>
</tbody>
</table>

Impedance

<table>
<thead>
<tr>
<th>Nominal Characteristic Impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Ohm</td>
</tr>
</tbody>
</table>

Delay
Nominal Velocity of Propagation (VP) [%]
70 %
Typical Delay Skew
0.007 ns/100m

Voltage
UL Voltage Rating
300 V RMS

Temperature Range
Operating Temp Range: -20°C To +75°C

Mechanical Characteristics
Bulk Cable Weight: 18 lbs/1000ft
Max Recommended Pulling Tension: 40 lbs
Min Bend Radius/Minor Axis: 0.2 in

Standards
NEC(UL) Specification: CMR
CEC(CUL) Specification: CMG
CPR Euroclass: Eca

Applicable Environmental and Other Programs
EU Directive 2011/65/EU (ROHS II): Yes
EU Directive 2012/19/EU (WEEE): Yes
EU Directive 2015/863/EU Yes
EU CE Mark: No
EU RoHS Compliance Date (yyyy-mm-dd): 2005-01-01
CA Prop 65 (CJ for Wire & Cable): Yes
MII Order #39 (China RoHS): Yes

Suitability
Suitability - Indoor: Yes

Flammability, LS0H, Toxicity Testing
UL Flammability: UL1666 Riser
ISO/IEC Flammability: IEC 60332-1-2
UL voltage rating: 300 V RMS

Plenum/Non-Plenum
Plenum (Y/N): No
Plenum Number: 7987P

Part Number

<table>
<thead>
<tr>
<th>Item #</th>
<th>Color</th>
<th>UPC</th>
<th>Length</th>
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</thead>
<tbody>
<tr>
<td>7987R 059U1000</td>
<td>Maroon</td>
<td>612825192527</td>
<td>1,000 ft</td>
</tr>
<tr>
<td>7987R 059U1000</td>
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<td>1,000 ft</td>
</tr>
<tr>
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<td>1,640 ft</td>
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<tr>
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<td>Maroon</td>
<td>612825192534</td>
<td>1,640 ft</td>
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Patent: https://www.belden.com/resources/patents

History
Update and Revision: Revision Number: 0.261 Revision Date: 12-12-2018
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