CATx Cables – How Can They Serve You?
CatX (100m/328ft) is ideal for “horizontal” indoor deployments

IF over CatX: High cable frequency utilization
Up to Cat8 Cable Rating: 2,000MHz MIMO 4x4
Each MIMO Stream on each cable pair
IF Cable Bandwidth: 20x vs. Ethernet

Cat6a, 7, 7a, 8...
10GbE (100m/328ft)
ORAN 7.2 Split
100MHz MIMO 4x4

Cat8
40GbE (30m/98ft only)
ORAN 7.2 Split
400Mhz MIMO 4x4
# IF Bandwidth and MIMO Support over CatX Cables

Up to 3x the Bandwidth Compared to Other Solutions

<table>
<thead>
<tr>
<th>Cable Category</th>
<th>Cat 5e</th>
<th>Cat 6a</th>
<th>Cat 7</th>
<th>Cat 7a</th>
<th>Cat 8</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Speed (ETH)</strong></td>
<td>1G</td>
<td>10G</td>
<td>10G</td>
<td>10G</td>
<td>10G</td>
</tr>
<tr>
<td><strong>Distance</strong></td>
<td>100m/328ft</td>
<td>100m/328ft</td>
<td>100m/328ft</td>
<td>100m/328ft</td>
<td>100m/328ft/30m/98ft</td>
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<tr>
<td><strong>Frequency Rating</strong></td>
<td>100MHz</td>
<td>500MHz</td>
<td>600MHz</td>
<td>1,000MHz</td>
<td>2,000MHz</td>
</tr>
<tr>
<td><strong>IF Bandwidth/MIMO</strong></td>
<td>&lt;125MHz 4x4</td>
<td>300MHz 4x4</td>
<td>360MHz 4x4</td>
<td>600MHz 4x4</td>
<td>1,200MHz 4x4</td>
</tr>
<tr>
<td><strong>ORAN/eCPRI Bandwidth/MIMO</strong></td>
<td>-</td>
<td>100MHz 4x4</td>
<td>100MHz 4x4</td>
<td>100MHz 4x4</td>
<td>100MHz 4x4</td>
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</tbody>
</table>

Cellium