Excel Category 6 Unscreened Twisted Pair (U/UTP) Cable - LSOH

**Features**
- 25 Year System Warranty
- LSOH outer sheath
- Fast Feed Reelex Packaging
- Category 6 Compliant • TIA/EIA 568-B.2-1 • EN50173-1 • ISO/IEC 11801
- EC Verified
- 23AWG conductor
- Metre marked

**Product Overview**
Excel Category 6 UTP cables are manufactured and tested to the TIA/EIA 568-B.2-1, EN50173-1 and ISO/IEC 11801 Category 6 specifications. Each cable consists of 8 colour coded 23AWG polyethylene insulated conductors. These are twisted together to form 4 pairs with varying lay lengths. These pairs are then formed around a central ‘X’ shaped LSOH cross filler. This filler assists in maintaining and enhancing the cables performance.

The printing detail along the outer sheath includes the cable part code, specification detail and our 305 to 0 metre marked system. As the cable is dispensed from the box/reel the sequential marking counts down from 305 to 0 metres, as well as reducing waste and accounting easily for cables installed, this innovative print legend finally removes the guesswork from assessing the amount of cable remaining in partly used boxes. The print legend on the cable now also includes information regarding the DOP Number, Test and classification of the cable for traceability.

**Specification**
- **Overall Diameter**: 6.46 ± 0.3
- **Installation Temperature Range**: 0°C to +60°C
- **Nominal Velocity of Propagation (NVP)**: 69%
- **Operating Temperature Range**: -20°C to +75°C
- **Bend Radius**: 4 x overall diameter installed, 8x during installation
- **Cable weight**: 4.10 Kg/100m
- **305m Reel Weight**: 13.2 Kg (inc. box)
- **Box Dimensions**: 255mm wide x 415mm high x 415mm deep
- **Standard of flame retardancy**: IEC 60332-1-[1,2] (2004-07), IEC 60754-(1,2), EN 50575:2014 +A1:2016 B2ca s1a,d1,a1
- **CPR Euroclass**: EN 50575:2014 +A1:2016 B2ca s1a,d1,a1
- **Smoke Emission**: EN 50399, IEC 61034-(1,2)
- **Cable jacket tested to**: IEC 62321, US EPA 3540C
- **Impedance**: 100 ± 15 Ω
Excel Category 6 cables are manufactured and tested to the Category 6 performance standards defined by the TIA, ISO and EN standards bodies. A range of performance characteristics are tested up to 250MHz including return loss, attenuation and near and far end crosstalk (NEXT and FEXT) for which both worst case and power sum tests are completed. Actual performance far exceeds the required standard - when tested in isolation and in circuit - resulting in significant headroom for even the most demanding of applications.

As well as providing link and channel compliance with the aforementioned specification - when installed with Excel category 6 components - the cable is also backward compatible with Category 5 and 5e components.

**Performance Overview**

**Typical Performance Test Data**

<table>
<thead>
<tr>
<th>Freq (MHz)</th>
<th>Max. IL (dB)</th>
<th>Min. NEXT (dB)</th>
<th>Min. RL (dB)</th>
<th>Min. ACR-F (dB)</th>
<th>Min. PS NEXT (dB)</th>
<th>Min. PS ACR-F (dB)</th>
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<tr>
<td>1</td>
<td>2.8</td>
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<td>20</td>
<td>66</td>
<td>64.0</td>
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<td>3.8</td>
<td>66.3</td>
<td>23</td>
<td>56</td>
<td>63.3</td>
<td>53</td>
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<td>10</td>
<td>6</td>
<td>60.3</td>
<td>25</td>
<td>48</td>
<td>57.3</td>
<td>45</td>
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<td>7.6</td>
<td>57.2</td>
<td>25</td>
<td>43.9</td>
<td>54.3</td>
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<td>55.8</td>
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<td>52.9</td>
<td>23.6</td>
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<td>49.9</td>
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<td>21.5</td>
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<td>20.1</td>
<td>28</td>
<td>42.3</td>
<td>25</td>
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<td>20</td>
<td>36.3</td>
<td>17</td>
</tr>
</tbody>
</table>

**Typical Applications**

- 1000BASE-T Gigabit Ethernet
- 100BASE-TX Fast Ethernet
- 622 Mbps ATM
- 155 Mbps ATM
- Composite Video

**Part Number Information**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>190-071</td>
<td>Category 6 (U/UTP) Unscreened Cable LSOH - 305m Box - Violet</td>
</tr>
</tbody>
</table>

**System Warranty**

The Excel System Warranty provides a 25-year product and applications assurance of compliance with the industry performance standard appropriate to the class of cabling installed. The warranty may be applied for by an accredited Excel Partner who has designed, supplied and installed the said system.