Cat 5E F/UTP PE Cable

APPLICATION
A 4 pair high performance cable that consists of twisted pair conductors, used mainly for data transmission. Category 5E supports a frequency range of up to 100MHz and is designed for transmission speeds of up to 1 gigabit per second (Gigabit Ethernet).

CHARACTERISTICS
Temperature Rating
Fixed: -20°C to +50°C

Minimum Bending Radius
Fixed: 4 x overall diameter
Flexed: 8 x overall diameter

CONSTRUCTION
Conductor
Class 1 solid copper conductor

Insulation
HDPE (High Density Polyethylene)

Drain Wire
Tinned Copper

Screen
Aluminium foil

Sheath
PE (Polyethylene)

Core Identification
Pair 1: Blue/White/Blue
Pair 2: Orange/White/Orange
Pair 3: Green/White/Green
Pair 4: Brown/White/Brown

Sheath Colour
Black

STANDARDS
ISO / IEC 11801, TIA 568C.2, YD/T1019

ISO/IEC 17025 LABORATORY TESTED
This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.

REGULATORY COMPLIANCE
This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.
## DIMENSIONS

<table>
<thead>
<tr>
<th>ELAND PART NO.</th>
<th>NO. OF PAIRS (24 AWG)</th>
<th>NOMINAL DIAMETER OVER INSULATION mm</th>
<th>NOMINAL OVERALL DIAMETER mm</th>
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</thead>
<tbody>
<tr>
<td>A8NFORCE5EFTPPE</td>
<td>4</td>
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## PERFORMANCE CHARACTERISTICS

<table>
<thead>
<tr>
<th>FREQUENCY MHz</th>
<th>ATTENUATION dB/100m</th>
<th>NEXT dB</th>
<th>PS-NEXT dB</th>
<th>RL dB</th>
<th>ELFEXT dB</th>
<th>PS-ELFEXT dB/100m</th>
<th>PHASE DELAY ns</th>
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<td>2</td>
<td>65.3</td>
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<td>48.8</td>
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<td>39.7</td>
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<td>537.6</td>
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## ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>IMPEDANCE (1-100MHz) ohms</th>
<th>MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km</th>
<th>MAXIMUM RESISTANCE UNBALANCE %</th>
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</thead>
<tbody>
<tr>
<td>100±15</td>
<td>9.5</td>
<td>5</td>
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The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.