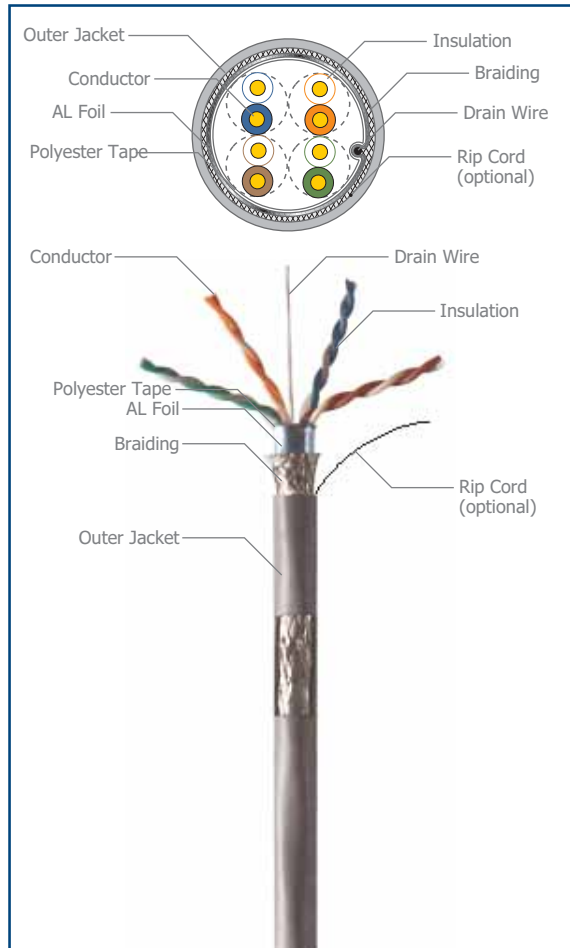


## 4PR 24AWG SF/UTP CAT5E / Part No.: LN-A0424AS5E

Description	Application
<ul style="list-style-type: none"> <li>Rated temperature: 75°C</li> <li>Reference standard: UL Subject 444, EIA/TIA 568B.2-1 &amp; ISO/IEC 11801, IEC 61162</li> <li>Solid bare copper conductor</li> <li>Colour-coded PE insulation</li> <li>Rip cord (optional)</li> <li>PVC or LSZH</li> <li>Packaging: Reel, Reel-in-box</li> </ul>	<ul style="list-style-type: none"> <li>100 Base-T4</li> <li>100Base-TX</li> <li>100VG-AnyLAN</li> <li>1000Base-T</li> <li>1000Base-TX</li> <li>155Mbps ATM</li> <li>622Mbps ATM</li> </ul>

Product Figure	Physical Characteristics																																																														
	<table border="1"> <tr> <td rowspan="4"><b>Structure</b></td> <td><b>Construction</b></td> <td>SF/UTP</td> </tr> <tr> <td><b>Number of Pairs</b></td> <td>4 Pair</td> </tr> <tr> <td><b>AWG</b></td> <td>24AWG</td> </tr> <tr> <td><b>Conductor Dimension (mm)</b></td> <td>0.54</td> </tr> <tr> <td rowspan="3"><b>Insulation</b></td> <td><b>Solid or Stranded; Bare or Tinned</b></td> <td>Stranded bare copper</td> </tr> <tr> <td><b>Insulation Material</b></td> <td>HDPE, FRPE</td> </tr> <tr> <td><b>Insulation Dimension (mm)</b></td> <td>1.07</td> </tr> <tr> <td rowspan="3"><b>Shield</b></td> <td><b>Number Colour (Ring or Strip Marking)</b></td> <td>1.White/Blue(Ring) &amp; Blue 2.White/Orange(Ring) &amp; Orange 3.White/Green(Ring) &amp; Green 4.White/Brown(Ring) &amp; Brown</td> </tr> <tr> <td><b>Cross Filler</b></td> <td>No</td> </tr> <tr> <td><b>Individual Shield &amp; Material</b></td> <td>No</td> </tr> <tr> <td rowspan="3"><b>Outer Jacket</b></td> <td><b>Outer Shield &amp; Material</b></td> <td>Yes (AL-Foli+Copper Braiding)</td> </tr> <tr> <td><b>Drain Wire</b></td> <td>Yes (Tinned Copper)</td> </tr> <tr> <td><b>Outer Jacket Material</b></td> <td>PVC or LSZH</td> </tr> <tr> <td rowspan="7"><b>Mechanical Characteristics</b></td> <td><b>Outer Jacket Ripcord</b></td> <td>Per customer request</td> </tr> <tr> <td><b>Overall Nominal Diameter (mm)</b></td> <td>6.8 ± 0.3</td> </tr> <tr> <td><b>Operating Temp. Range</b></td> <td>-20~75°C</td> </tr> <tr> <td><b>Bulk Cable Weight (KG)</b></td> <td>67KG</td> </tr> <tr> <td><b>Max. Recommended Pulling Tension</b></td> <td>110N</td> </tr> <tr> <td><b>Min. Bend Radius (Install)</b></td> <td>8 x O.D.</td> </tr> <tr> <td><b>Flame Test</b></td> <td>CMX, CM, CMG, CMR</td> </tr> <tr> <td rowspan="7"><b>Electrical Characteristics</b></td> <td><b>Nom. Mutual Capacitance @ 1kHz</b></td> <td>≤ 5.6nF/100M</td> </tr> <tr> <td><b>Max. Capacitance Unbalance (pF/100m)</b></td> <td>≤ 330pF/100M(Per TIA/EIA-568B.2) ≤ 160pF/100M(Per IEC 61156)</td> </tr> <tr> <td><b>Nominal Velocity of Propagation</b></td> <td>65%</td> </tr> <tr> <td><b>Max. Delay Skew (ns/100m)</b></td> <td>≤ 45ns /100M</td> </tr> <tr> <td><b>Max. Conductor DC Resistance @ 20 Deg. C</b></td> <td>9.38Ω /100M(24AWG)</td> </tr> <tr> <td><b>Max. DC Resistance Unbalance @ 20 Deg. C</b></td> <td>≤ 5%(Per TIA/EIA-568B.2) ≤ 2%(Per IEC 61156-5)</td> </tr> <tr> <td><b>Max. Insulation Resistance (MΩ/km)</b></td> <td>5000</td> </tr> <tr> <td><b>Max. Operating Voltage-UL</b></td> <td>300V</td> </tr> </table>	<b>Structure</b>	<b>Construction</b>	SF/UTP	<b>Number of Pairs</b>	4 Pair	<b>AWG</b>	24AWG	<b>Conductor Dimension (mm)</b>	0.54	<b>Insulation</b>	<b>Solid or Stranded; Bare or Tinned</b>	Stranded bare copper	<b>Insulation Material</b>	HDPE, FRPE	<b>Insulation Dimension (mm)</b>	1.07	<b>Shield</b>	<b>Number Colour (Ring or Strip Marking)</b>	1.White/Blue(Ring) & Blue 2.White/Orange(Ring) & Orange 3.White/Green(Ring) & Green 4.White/Brown(Ring) & Brown	<b>Cross Filler</b>	No	<b>Individual Shield &amp; Material</b>	No	<b>Outer Jacket</b>	<b>Outer Shield &amp; Material</b>	Yes (AL-Foli+Copper Braiding)	<b>Drain Wire</b>	Yes (Tinned Copper)	<b>Outer Jacket Material</b>	PVC or LSZH	<b>Mechanical Characteristics</b>	<b>Outer Jacket Ripcord</b>	Per customer request	<b>Overall Nominal Diameter (mm)</b>	6.8 ± 0.3	<b>Operating Temp. Range</b>	-20~75°C	<b>Bulk Cable Weight (KG)</b>	67KG	<b>Max. Recommended Pulling Tension</b>	110N	<b>Min. Bend Radius (Install)</b>	8 x O.D.	<b>Flame Test</b>	CMX, CM, CMG, CMR	<b>Electrical Characteristics</b>	<b>Nom. Mutual Capacitance @ 1kHz</b>	≤ 5.6nF/100M	<b>Max. Capacitance Unbalance (pF/100m)</b>	≤ 330pF/100M(Per TIA/EIA-568B.2) ≤ 160pF/100M(Per IEC 61156)	<b>Nominal Velocity of Propagation</b>	65%	<b>Max. Delay Skew (ns/100m)</b>	≤ 45ns /100M	<b>Max. Conductor DC Resistance @ 20 Deg. C</b>	9.38Ω /100M(24AWG)	<b>Max. DC Resistance Unbalance @ 20 Deg. C</b>	≤ 5%(Per TIA/EIA-568B.2) ≤ 2%(Per IEC 61156-5)	<b>Max. Insulation Resistance (MΩ/km)</b>	5000	<b>Max. Operating Voltage-UL</b>	300V
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\* Custom configuration is available upon request.



**4PR 24AWG SF/UTP CAT5E / Part No.: LN-A0424AS5E**
**TIA/EIA-568-B.2 Electrical Characteristics**

Frequency (MHz)	Input Impedance (Ohms)	ATT (dB/100m)	RL (dB Min)	NEXT (dB Min)	PSNEXT (dB Min)	ELNEXT (dB Min)	PSELFEXT (dB Min)	PD Max(ns/100m)
0.772	100 ± 15	1.8	-	67.0	64.0	-	-	-
1	100 ± 15	2.0	20.0	65.3	62.3	63.8	60.8	570.0
4	100 ± 15	4.1	23.0	56.3	53.3	51.8	48.8	552.0
8	100 ± 15	5.8	24.5	51.8	48.8	45.7	42.7	546.7
10	100 ± 15	6.5	25.0	50.3	47.3	43.8	40.8	545.4
16	100 ± 15	8.2	25.0	47.2	44.2	39.7	36.7	543.0
20	100 ± 15	9.3	25.0	45.8	42.8	37.8	34.8	542.0
25	100 ± 15	10.4	24.3	44.3	41.3	35.8	32.8	541.2
31.25	100 ± 15	11.7	23.6	42.9	39.9	33.9	30.9	540.4
62.5	100 ± 15	17.0	21.5	38.4	35.4	27.9	24.9	538.6
100	100 ± 15	22.0	20.1	35.3	32.3	23.8	20.8	537.6

**IEC 61156-5 Electrical Characteristics**

Frequency (MHz)	Input Impedance (Ohms)	ATT (dB/100m)	RL (dB Min)	NEXT (dB Min)	PSNEXT (dB Min)	ELNEXT (dB Min)	PSELFEXT (dB Min)	PD Max(ns/100m)
1	100 ± 15	-	20.0	-	-	64.0	61.0	570.0
4	100 ± 15	4.0	23.0	56.3	53.3	52.0	49.0	552.0
8	100 ± 15	5.6	24.5	51.8	48.8	45.9	42.9	546.7
10	100 ± 15	6.3	25.0	50.3	47.3	44.0	41.0	545.4
16	100 ± 15	8.0	25.0	47.2	44.2	39.9	36.9	543.0
20	100 ± 15	9.0	25.0	45.8	42.8	38.0	35.0	542.0
25	100 ± 15	10.1	24.3	44.3	41.3	36.0	33.0	541.2
31.25	100 ± 15	11.4	23.6	42.9	39.9	34.1	31.1	540.4
62.5	100 ± 15	16.5	21.5	38.4	35.4	28.1	25.1	538.6
100	100 ± 15	21.3	20.1	35.3	32.3	24.0	21.0	537.6

