

Category 6A GT UTP LSOH 4-Pair Cable

Siemon's Category 6A Gap Technology (GT) UTP LSOH cable features a discontinuous foil construction which enables a typical UTP installation process and smaller cable diameter while providing improved heat dissipation and virtually zero alien crosstalk. These properties make this cable ideal for supporting applications using both remote powering and 10 Gb/s application speeds such as IEEE 802.11ac or IEEE 802.11ax wireless access points or other high speed emerging or converging IP building automation technologies.



Siemon's **PowerGUARD** technology with a 75°C operating temperature improves heat dissipation for reduced length derating and bundling requirements in remote powering applications, including PoE and power over HDBaseT (POH).

CABLE CONSTRUCTION

- GT UTP LSOH
- 0.56mm (.022 in.) 23 AWG solid bare copper
- 7.7mm (.303 in.) nom. jacket diameter
- Central isolation member
- Discontinuous foil aluminum polyester tape applied over the core
- Reverse sequential measurement markings on jacket

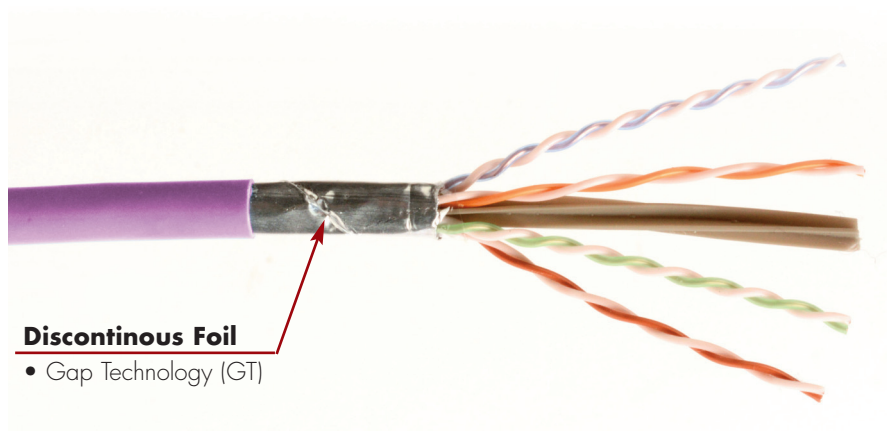
COMPLIANCE

- ANSI/TIA-568.2-D
- IEC 61156-5 Ed 2.0
- ISO/IEC 11801-1 Ed 1.0
- IEC 60332-1
- IEC 60332-3-22
- IEC 60754-2, 61034
- EN50575 Eca

APPLICATIONS SUPPORT

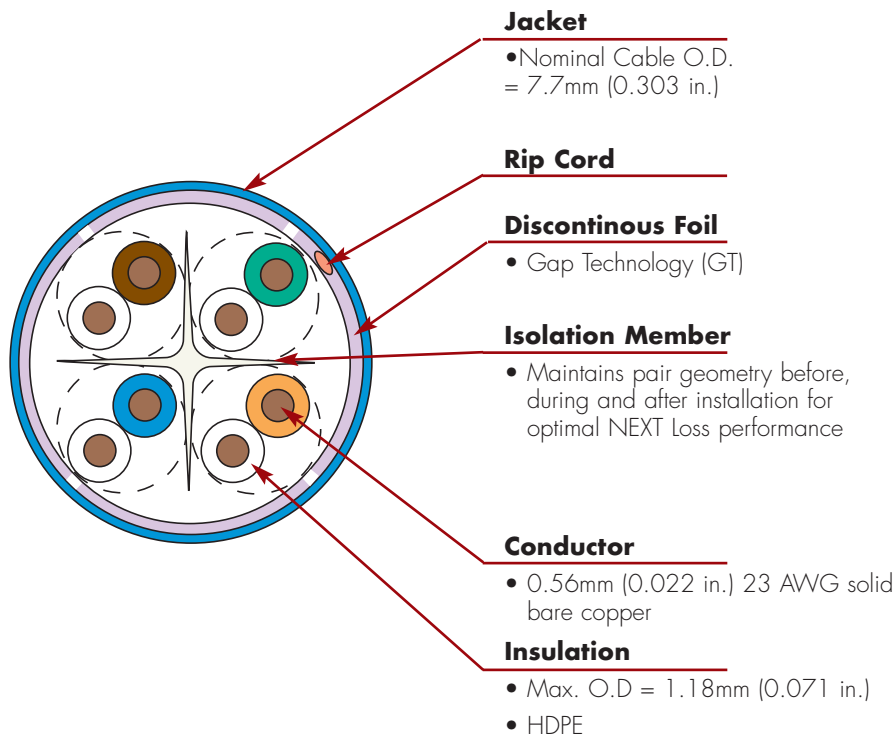
- 10GBASE-T
- 1000BASE-T
- 100BASE-T
- 10BASE-T
- IEEE 802.3af (Type 1 PoE)
- IEEE 802.3at (Type 2 PoE)
- IEEE 802.3bt (Type 3 PoE)
- IEEE 802.3bt (Type 4 PoE)
- Power over HDBaseT (PoH)

Supports all applications designed for category 6A or lower cabling



Discontinuous Foil

- Gap Technology (GT)



Product Information

Ordering Information:

9U6L4-A5-08-R1N LSOH (IEC 60332-1, IEC 60332-3-22), violet jacket, 305m reel

Other colors and put-ups available with longer lead times and MOQ's. Please contact Customer Service for details.

ELECTRICAL SPECIFICATIONS

| | |
|-------------------------|-----------------------|
| DC Resistance | ≤8 Ω/100m |
| DC Resistance Unbalance | within pairs ≤ 2% |
| | between pairs ≤ 5% |
| Mutual Capacitance | Nom. 4.3 nf/100m |
| Capacitance Unbalance | ≤160 pf/100m |
| NVP | 66% |
| TCL | ≥50·10* log(f/100) dB |
| Delay Skew | ≤45 ns |

PHYSICAL PROPERTIES

| | LSOH |
|--------------------------|---------------------------|
| Pulling Tension (max) | 100N (22 lbf) |
| Bend Radius (min) | 30.8mm (1.2 in.) |
| Installation Temperature | 0 to 50°C (+32 to 122°F) |
| Storage Temperature | -20 to 75°C (-4 to 167°F) |
| Operating Temperature | -20 to 75°C (-4 to 167°F) |

TRANSMISSION PERFORMANCE

GUARANTEED WORST CASE SIEMON TYPICAL

| Frequency (MHz) | Insertion Loss (dB) | | NEXT (dB) | | PS NEXT (dB) | | ACR-F (dB) | | PS ACR-F (dB) | | Return Loss (dB) | | ACR-N (dB) | | PS ACR-N (dB) | | Propagation Delay (ns) | | |
|-----------------|---------------------|------|-----------|------|--------------|------|------------|------|---------------|------|------------------|------|------------|------|---------------|------|------------------------|-----|--|
| 1.0 | 2.1 | 2.1 | 75.3 | 81.9 | 73.3 | 79.9 | 73.3 | 78.3 | 71.3 | 76.1 | 20.0 | 30.9 | 73.2 | 79.9 | 71.2 | 77.9 | 570 | 557 | |
| 4.0 | 3.8 | 3.7 | 66.3 | 79.4 | 64.3 | 78.5 | 61.3 | 76.7 | 59.3 | 76.3 | 23.0 | 33.4 | 62.5 | 76.0 | 60.5 | 75.0 | 552 | 541 | |
| 10.0 | 5.9 | 5.7 | 60.3 | 74.8 | 58.3 | 72.7 | 53.3 | 70.1 | 51.3 | 69.4 | 25.0 | 32.5 | 54.4 | 69.4 | 52.4 | 67.0 | 545 | 535 | |
| 16.0 | 7.5 | 7.1 | 57.2 | 72.0 | 55.2 | 69.7 | 49.2 | 65.7 | 47.2 | 64.8 | 25.0 | 28.9 | 49.8 | 65.5 | 47.8 | 62.6 | 543 | 533 | |
| 20.0 | 8.4 | 8.0 | 55.8 | 68.7 | 53.8 | 67.1 | 47.3 | 63.1 | 45.3 | 62.0 | 25.0 | 32.9 | 47.4 | 61.1 | 45.4 | 59.3 | 542 | 532 | |
| 31.25 | 10.5 | 10.0 | 52.9 | 67.7 | 50.9 | 64.6 | 43.4 | 57.3 | 41.4 | 56.9 | 23.7 | 32.6 | 42.4 | 58.3 | 40.4 | 54.6 | 540 | 531 | |
| 62.5 | 15.0 | 14.3 | 48.4 | 62.6 | 46.4 | 59.3 | 37.4 | 52.6 | 35.4 | 50.9 | 21.5 | 29.2 | 33.4 | 48.7 | 31.4 | 45.3 | 539 | 529 | |
| 100.0 | 19.1 | 18.3 | 45.3 | 59.2 | 43.3 | 58.0 | 33.3 | 54.2 | 31.3 | 51.4 | 20.1 | 31.8 | 26.2 | 42.4 | 24.2 | 40.9 | 538 | 528 | |
| 160.0 | 24.5 | 23.3 | 42.2 | 54.8 | 40.2 | 53.6 | 29.2 | 47.6 | 27.2 | 46.7 | 18.7 | 27.2 | 17.7 | 33.4 | 15.7 | 30.8 | 537 | 527 | |
| 200.0 | 27.6 | 26.2 | 40.8 | 52.1 | 38.8 | 50.4 | 27.3 | 44.2 | 25.3 | 44.3 | 18.0 | 29.6 | 13.2 | 27.4 | 11.2 | 24.2 | 537 | 527 | |
| 250.0 | 31.1 | 29.4 | 39.3 | 51.6 | 37.3 | 48.5 | 25.3 | 41.7 | 23.3 | 39.7 | 17.3 | 30.8 | 8.3 | 23.9 | 6.3 | 19.8 | 536 | 527 | |
| 300.0 | 34.3 | 32.4 | 38.1 | 50.7 | 36.1 | 47.6 | 23.8 | 38.5 | 21.8 | 38.2 | 17.3 | 26.0 | 3.9 | 19.8 | 1.9 | 16.4 | 536 | 527 | |
| 400.0 | 40.1 | 37.8 | 36.3 | 46.7 | 34.3 | 45.4 | 21.3 | 34.9 | 19.3 | 33.2 | 17.3 | 26.6 | -3.8 | 11.1 | -5.8 | 7.9 | 536 | 526 | |
| 500.0 | 45.3 | 42.4 | 34.8 | 43.2 | 32.8 | 41.6 | 19.3 | 39.5 | 17.3 | 38.5 | 17.3 | 25.2 | -10.4 | 3.2 | -12.4 | -0.8 | 536 | 526 | |
| 550.0* | - | 44.6 | - | 44.2 | - | 42.6 | - | 35.1 | - | 32.0 | - | 26.5 | - | 1.9 | - | -0.9 | - | 526 | |
| 650.0* | - | 48.9 | - | 41.6 | - | 39.6 | - | 32.2 | - | 28.8 | - | 20.3 | - | -4.9 | - | -8.1 | - | 526 | |

*Values above 500 MHz are informational only.

All performance based on 100 meters (328 ft.)

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

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