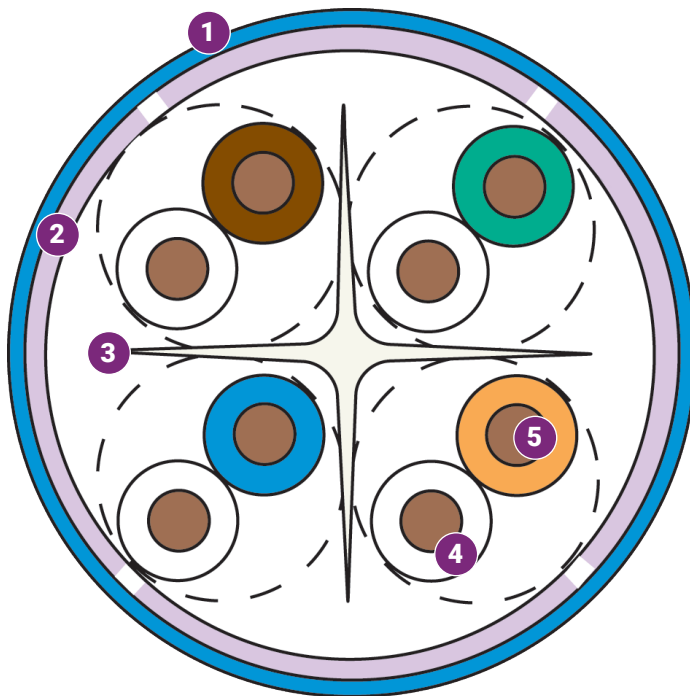


Category 6A TL UTP LS0H 4-Pair Cable

Regional Availability – International



Siemon's Category 6A TL UTP LS0H cable features a tri-layer barrier composed of conductive and non-conductive elements that 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.



1. Jacket

Nominal Cable O.D.: 7.2mm (0.283 in.)

2. Tri-Layer Barrier

3. Isolation Member

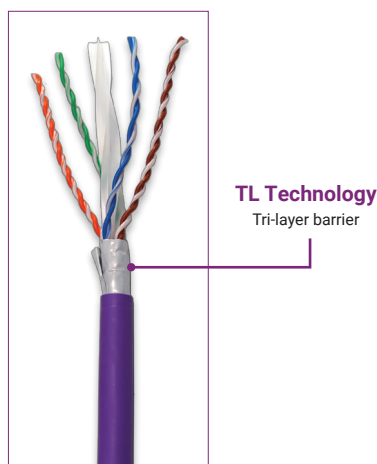
Maintains pair geometry before, during and after installation for optimal NEXT Loss Performance.

4. Insulation

Max O.D.
Blue, Green = 1.12mm (0.044 in.)
Orange, Brown = 1.18mm (0.046 in.)
Polyethylene

5. Conductor

0.546mm (min) (0.022 in.) 23 AWG solid bare copper.



Compliance

- ANSI/TIA-568.2-E
- IEC 61156-5
- ISO/IEC 11801-1
- IEC 60332-1
- IEC 60754
- IEC 61034
- IEC 60332-3-22
- EN 50575 Dca s2 d1 a1

Cable Construction

- Tri-layer "TL" UTP LS0H
- 0.546mm (min) (.022 in.) 23 AWG solid bare copper
- 7.2mm (.283 in.) nom. jacket diameter
- Central isolation member
- Tri-layer laminated polyethylene over aluminum applied over core
- Reverse sequential measurement markings on jacket

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.



Data | Power | Reach | Delivered

Product Information

ELECTRICAL SPECIFICATIONS

DC RESISTANCE	≤9.38 Ω/100 m (@ 20°C)
DC RESISTANCE UNBALANCE WITHIN PAIRS	≤2% (@ 20°C)
DC RESISTANCE UNBALANCE BETWEEN PAIRS	≤5% (@ 20°C)
MUTUAL CAPACITANCE	≤5.6 nF/100m
CAPACITANCE UNBALANCE	≤160 pF/100m
NVP	65%
TCL	≥50-10* log(f) dB
DELAY SKEW	≤45ns



PHYSICAL PROPERTIES

LS0H

PULLING TENSION (MAX)	110N (24.7 lbf)
BEND RADIUS (MIN)	4 x O.D.
INSTALLATION TEMPERATURE	-10 to 60°C (+14 to 140°F)
STORAGE TEMPERATURE	-20 to 50°C (-4 to 122°F)
OPERATING TEMPERATURE	-20 to 75°C (-4 to 167°F)

TRANSMISSION PERFORMANCE

FREQUENCY (MHz)

 Siemon Guaranteed Worst Case
 Siemon Typical

TEST PARAMETER	1.0	4.0	10.0	16.0	20.0	31.25	62.5	100.0	160.0	200.0	250.0	300.0	400.0	500.0	550.0*	625.0*	750.0*
INSERTION LOSS (dB)	2.1	3.8	5.9	7.5	8.4	10.5	15.0	19.1	24.5	27.6	31.1	34.3	40.1	45.3	-	-	-
	1.9	3.6	5.7	7.2	8.0	10.0	14.3	18.1	23.1	25.8	29.0	31.9	37.1	41.8	44.1	47.0	52.1
NEXT (dB)	75.3	66.3	60.3	57.2	55.8	52.9	48.4	45.3	42.2	40.8	39.3	38.1	36.3	34.8	-	-	-
	95.1	87.1	77.4	71.7	70.3	71.5	66.1	61.5	56.5	54.6	51.2	53.6	46.8	46.8	43.8	33.3	39.1
PS NEXT (dB)	73.3	64.3	58.3	55.2	53.8	50.9	46.4	43.3	40.2	38.8	37.3	36.1	34.3	32.8	-	-	-
	92.3	84.5	75.5	68.8	67.1	68.4	63.4	60.3	55.7	53.2	49.9	50.7	46.1	45.4	43.2	32.7	38.2
ACR-F (dB)	73.3	61.3	53.3	49.2	47.3	43.4	37.4	33.3	29.2	27.3	25.3	23.8	21.3	19.3	-	-	-
	104.5	91.6	85.4	78.9	75.3	73.2	62.3	61.2	54.7	50.2	49.2	45.8	45.0	40.8	36.4	35.7	37.5
PS ACR-F (dB)	71.3	59.3	51.3	47.2	45.3	41.4	35.4	31.3	27.2	25.3	23.3	21.8	19.3	17.3	-	-	-
	101.0	89.6	82.6	77.4	73.3	69.4	61.0	58.5	52.7	47.6	46.9	45.3	44.1	39.0	35.7	35.1	35.7
RETURN LOSS (dB)	20.0	23.0	25.0	25.0	25.0	23.7	21.5	20.1	18.7	18.0	17.3	17.3	17.3	17.3	-	-	-
	26.8	30.0	28.9	32.5	30.7	30.0	30.2	28.8	26.7	29.6	24.5	26.1	24.8	20.3	19.7	20.5	18.3
ACR-N (dB)	73.2	62.5	54.4	49.8	47.4	42.4	33.4	26.2	17.7	13.2	8.3	3.9	-3.8	-10.4	-	-	-
	93.3	83.8	72.0	64.8	62.6	61.8	52.9	44.9	34.2	29.6	23.2	24.5	11.0	7.1	3.4	-10.1	-8.0
PS ACR-N (dB)	71.2	60.5	52.4	47.8	45.4	40.4	31.4	24.2	15.7	11.2	6.3	1.9	-5.8	-12.4	-	-	-
	90.6	81.1	70.3	61.9	59.4	58.4	49.3	42.5	32.9	28.3	21.9	18.8	10.7	4.2	-0.9	-14.3	-13.2
PROPAGATION DELAY (ns)	570	552	545	543	542	540	539	538	537	537	536	536	536	536	-	-	-
	503	500	497	496	495	494	493	493	493	493	493	492	492	492	492	492	493

All performance based on 100 meters (328 ft.). *Values above 500 MHz are informational only.

Ordering Information

Part Number	Description
9U6L4-A5-08AR1A	6A UTP, TL, LS0H, Violet jacket, 305m (1000 ft.) Reel

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



SCAN TO DOWNLOAD SPEC SHEET

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