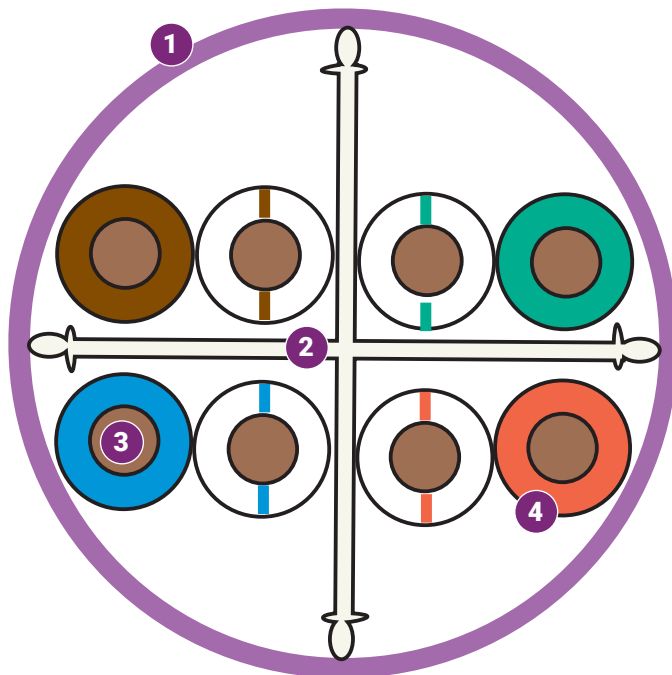


Category 6A UTP Cable

Regional Availability – India



Siemon's Category 6a UTP cable exceeds ANSI/TIA and ISO/IEC transmission performance requirements including alien crosstalk. When combined with Z-MAX 6A UTP connectivity, the result is a channel capable of supporting 10GBASE-T operation over 100-meter, 4-connector topologies. The 6A UTP cabling system supports emerging and converging IP applications like Voice Over IP (VoIP), IP video and other 10GBase-T applications.



1. Jacket

Cable O.D.: 7.6mm (0.30 in.)
Jacket Material: LSOH

3. Conductor

23AWG solid
0.56mm (0.022 in.)

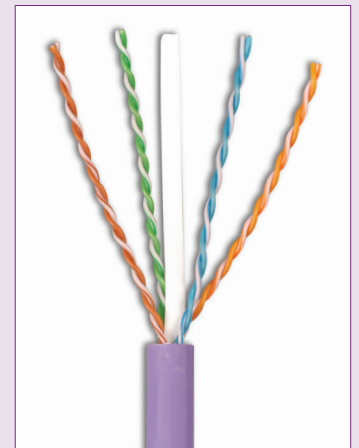
2. Center Isolation Member

4. Insulation

Conductor Insulation: HDPE
1.03mm nominal outside diameter



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 Features

- UTP
- Nominal jacket OD: 7.6mm (0.30 in.)
- 23 AWG 0.58mm (0.023 in.) solid bare copper
- Center Isolation Member
- 75° C temperature rating

Standard Compliance

- ISO/IEC 11801-1 Ed 1.0
- ANSI/TIA-568.2-D
- IEC 61156-5 Ed 2.1
- LSOH: ISO/IEC 60332-1, IEC 60754 and IEC 61034
- EN 50575 Class 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)

Product Information

ELECTRICAL SPECIFICATIONS

DC RESISTANCE	≤9.38/100m nominal
DC RESISTANCE UNBALANCE	within pairs: ≤2% • between pairs: ≤5%
MUTUAL CAPACITANCE	≤5.6 nF/100m
CAPACITANCE UNBALANCE	<330 pF/100m
NVP	65%
TCL	≥50-10* log(f/100) dB
DELAY SKEW	≤45ns

PHYSICAL PROPERTIES

PULLING TENSION (MAX)	110 N (25 lbf)
BEND RADIUS (MIN)	32mm (1.26 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

TEST PARAMETER	FREQUENCY (MHz)															
	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*	650.0*
INSERTION LOSS (dB)	2.1	3.7	5.9	7.4	8.3	10.5	15.0	19.1	24.5	27.6	31.0	34.3	40.0	45.3	-	-
	1.8	3.5	5.7	7.2	8.1	10.2	14.5	18.5	23.7	26.6	29.9	33.0	38.4	43.3	45.6	50.0
NEXT (dB)	75.3	66.5	60.4	57.4	55.9	52.9	48.4	45.3	42.3	40.8	39.3	38.1	36.3	34.8	-	-
	83.8	75.1	67.8	69.4	65.3	59.2	64.9	55.4	56.1	54.5	48.6	44.7	45.3	49.7	44.5	35.6
PS NEXT (dB)	73.3	64.5	58.4	55.4	53.9	50.9	46.4	43.3	40.3	38.8	37.3	36.1	34.3	32.8	-	-
	81.0	75.0	67.6	69.0	64.9	59.1	62.5	55.0	54.0	52.2	46.8	43.5	44.8	46.8	41.0	32.5
ACR-F (dB)	73.3	61.6	53.4	49.4	47.4	43.5	37.4	33.3	29.2	27.3	25.4	23.8	21.3	19.3	-	-
	86.7	77.4	69.8	62.0	57.9	50.8	41.0	38.4	32.8	28.2	33.4	27.1	24.1	24.2	17.6	20.6
PS ACR-F (dB)	71.3	59.6	51.4	47.4	45.4	41.5	35.4	31.3	27.2	25.3	23.4	21.8	19.3	17.3	-	-
	83.4	76.3	67.3	60.9	57.2	50.5	40.8	38.2	32.7	28.2	32.3	26.8	23.7	24.1	17.5	20.3
RETURN LOSS (dB)	20.0	22.9	25.0	25.0	25.0	23.7	21.5	20.1	18.7	18.0	17.3	17.3	17.3	17.3	-	-
	30.7	34.0	36.4	37.8	37.9	35.5	40.7	34.6	31.3	37.6	36.0	36.0	31.7	32.1	31.2	30.6
ACR-N (dB)	73.3	61.6	53.4	49.4	47.4	43.5	37.4	33.3	29.2	27.3	25.4	23.8	21.3	19.3	-	-
	86.7	77.4	69.8	62.0	57.9	50.8	41.0	38.4	32.8	28.2	33.4	27.1	24.1	24.2	17.6	20.6
PS ACR-N (dB)	71.3	59.6	51.4	47.4	45.4	41.5	35.4	31.3	27.2	25.3	23.4	21.8	19.3	17.3	-	-
	84.9	76.7	67.4	60.7	57.2	50.4	41.0	38.4	32.9	28.2	31.8	26.9	23.7	24.3	17.3	19.9
PROPAGATION DELAY (ns)	570	552	545	543	542	540	539	538	537	537	536	536	536	536	-	-
	561	545	538	536	535	534	532	531	530	530	530	530	529	529	529	529

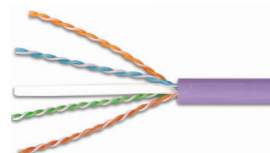
Siemon Guaranteed Worst Case
 Siemon Typical

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

Ordering Information

Part Number	Description
9C6L4-A5-08-R1H	LSOH (IEC 60332-1), class Eca violet jacket 305m (1000 ft.) reel

For additional reel put-ups and cable colors, please contact Siemon Customer Service.



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

North America
P: (1) 860 945 4200

Asia Pacific
P: (61) 2 8977 7500

Latin America
P: (571) 657 1950/51/52

Europe
P: (44) 0 1932 571771

China
P: (86) 215385 0303

India, Middle East & Africa
P: (971) 4 3689743

Siemon Interconnect Solutions
P: (1) 860 945 4213
www.siemon.com/SIS

Mexico
P: (521) 556 387 7708/09/10

www.siemon.com

