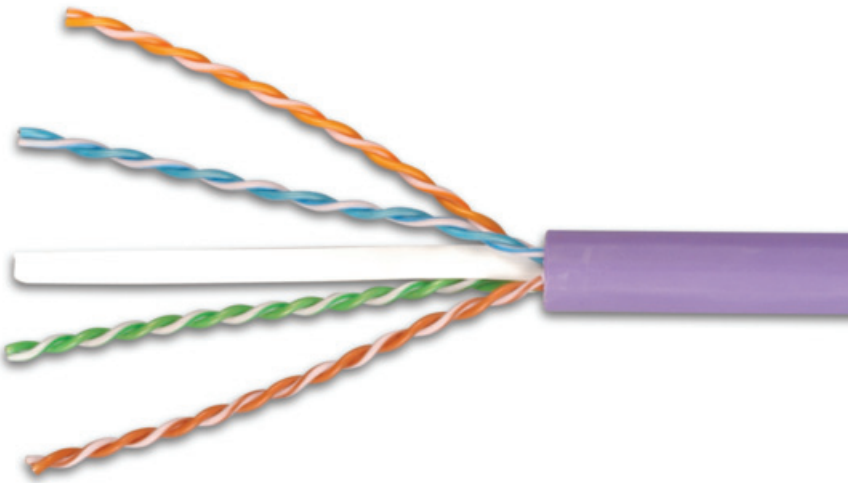


CATEGORY 6A UTP LSOH CABLE

Siemon's Category 6A LSOH 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-conductor topologies. The 6A UTP cabling system supports emerging and converging IP applications like Voice Over IP (VoIP), IP video and other 10GBase-T applications.



HIGHLIGHTS

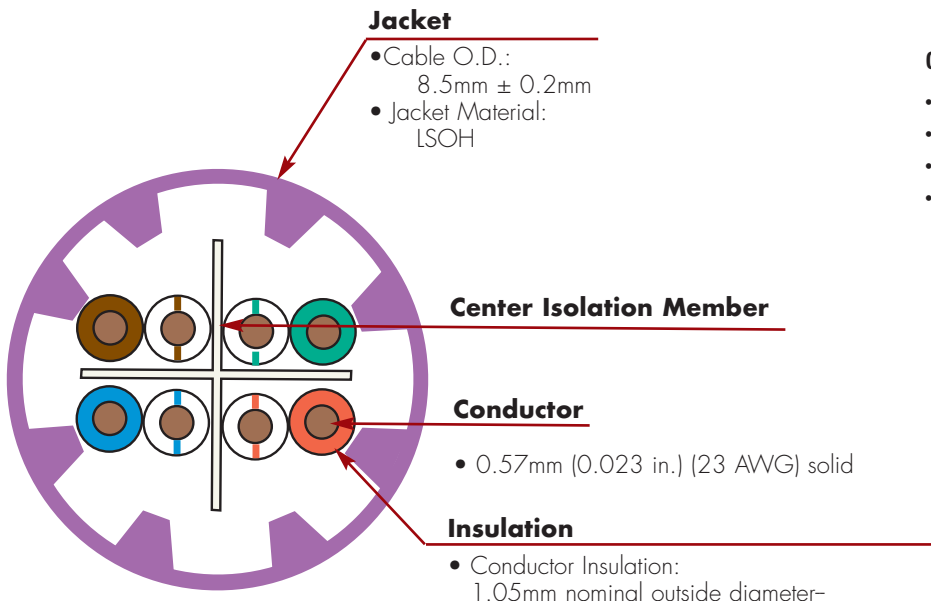
- Center isolation member maintains pair geometry before, during and after installation for optimal NEXT performance
- Reverse sequential measurement marking on jacket

COMPLIANCE

- ISO/IEC 11801 Ed. 2.2 (Class E_A)
- ISO/IEC 61156-5 (Category 6A)
- TIA-568-C.2 (Category 6A)
- LSOH: ISO/IEC 60332, IEC 60754, IEC 61034
- EN50399 Class E_{ca}

CABLE CONSTRUCTION

- UTP
- Nominal jacket OD: 8.5mm (0.33 in.)
- 0.58mm (0.02 in.) solid (non-tinned) copper
- Centre Isolation Member



ELECTRICAL SPECIFICATIONS

DC Resistance	<8.5 Ω /100m
DC Resistance Unbalance	2%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<160 pF/100m
Characteristic Impedance (ohms)	1 - 250 MHz: 100 $\pm$ 15% 100 - 750 MHz: 100 $\pm$ 22%
NVP	67%
TCL	30-10 log (#/100)dB
PSANEXT	62.5-15log(f/100)dB
PSAACR-F	38.2-20log(f/100)dB
Delay Skew	$\leq$ 45ns

PHYSICAL PROPERTIES

	LSOH
Pulling Tension (max)	110N (25 lbf)
Bend Radius (min)	45.7mm (1.8 in.)
Installation Temperature	0 to 60°C (+32 to 140°F)
Storage Temperature	-20 to 75°C (-4 to 167°F)
Operating Temperature	-20 to 60°C (-4 to 140°F)

TRANSMISSION PERFORMANCE



GUARANTEED WORST CASE



SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0	2.1	1.8	75.3	96.0	72.3	92.0	73.2	94.2	70.2	90.2	68.0	92.0	65.0	85.0	20.0	29.0	570	540
4.0	3.8	3.5	66.3	89.0	63.3	83.0	62.5	85.7	59.5	79.7	56.0	80.0	53.0	73.0	23.0	32.0	552	522
10.0	5.9	5.5	60.3	83.0	57.3	77.0	54.4	77.8	51.4	71.8	48.0	72.0	45.0	65.0	25.0	36.0	545	515
16.0	7.5	6.7	57.2	80.0	54.2	74.0	49.8	73.3	46.8	67.3	43.9	68.0	40.9	61.0	25.0	36.0	543	513
20.0	8.4	7.5	55.8	79.0	52.8	73.0	47.4	71.5	44.4	65.5	42.0	68.0	39.0	59.0	25.0	36.0	542	512
31.25	10.5	9.4	52.9	76.0	49.9	70.0	42.4	66.6	39.4	60.6	38.1	62.0	35.1	55.0	23.6	34.0	540	510
62.5	15.0	13.7	48.4	71.0	45.4	65.0	33.4	57.3	30.4	51.3	32.1	56.0	29.1	49.0	21.5	34.0	539	509
100.0	19.1	17.8	45.3	68.0	42.3	62.0	26.2	50.2	23.2	44.2	28.0	52.0	25.0	45.0	20.1	33.0	538	507
200.0	27.6	25.8	40.8	64.0	37.8	58.0	13.2	38.2	10.2	32.2	22.0	46.0	19.0	39.0	18.0	31.0	537	506
250.0	31.1	29.2	39.3	62.0	36.3	56.0	8.3	32.8	5.3	26.8	20.0	44.0	17.0	37.0	17.3	31.0	536	506
300.0	34.3	31.5	38.1	61.0	35.1	55.0	3.9	29.5	0.9	23.5	18.5	42.0	15.5	35.0	17.3	29.0	536	505
400.0	37.2	33.8	37.1	60.0	34.1	54.0	-0.1	26.2	-3.1	20.2	17.1	41.0	14.1	34.0	17.3	28.0	535	505
500.0	40.1	37.9	36.38	59.0	33.3	53.0	-3.8	21.1	-6.8	15.1	16.0	40.0	13.0	33.0	17.3	27.0	535	505
550.0*	45.3	42.1	34.8	57.0	31.8	51.0	-10.4	14.9	-13.4	8.9	14.0	39.0	11.0	32.0	-	26.0	535	505
625.0*	-	44.9	-	53.0	-	50.0	-	8.1	-	5.1	-	36.0	-	29.0	-	25.0	-	505
750.0*	-	49.0	-	51.0	-	49.0	-	2.0	-	0.0	-	35.0	-	27.0	-	25.0	-	504

*Values for frequencies above industry requirements are for information only.

All performance based on 100 metres (328 ft.).

Ordering Information:

Part #	Description
9C6L4-A5.	LSOH (IEC 60332-1), violet jacket, Class E _{ca} , 305m (1000 ft.) reel

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

Worldwide Headquarters
North America
 Watertown, CT USA
 Phone (1) 860 945 4200

Regional Headquarters
Europe Russia Africa
 Chertsy, Surrey, England
 Phone (44) 0 1932 571771

Regional Headquarters
China
 Shanghai, P.R. China
 Phone (86) 215385 0303

Regional Headquarters
Latin America
 Bogota, Colombia
 Phone (571) 657 1950/51/52

Regional Headquarters
India Middle East
 Dubai, United Arab Emirates
 Phone (971) 4 3689743

Regional Headquarters
Asia Pacific
 Sydney, Australia
 Phone (86) 21 5385 0303

Siemon Interconnect Solutions
Watertown, CT USA
 Phone (1) 860 945 4213 US
www.siemon.com/SIS