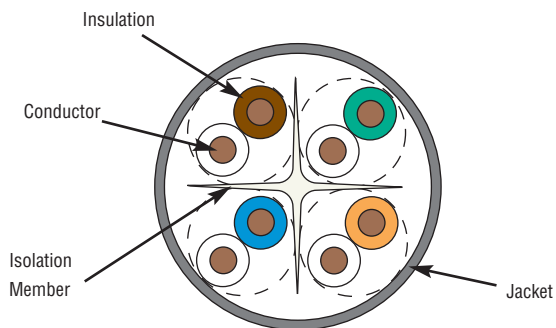
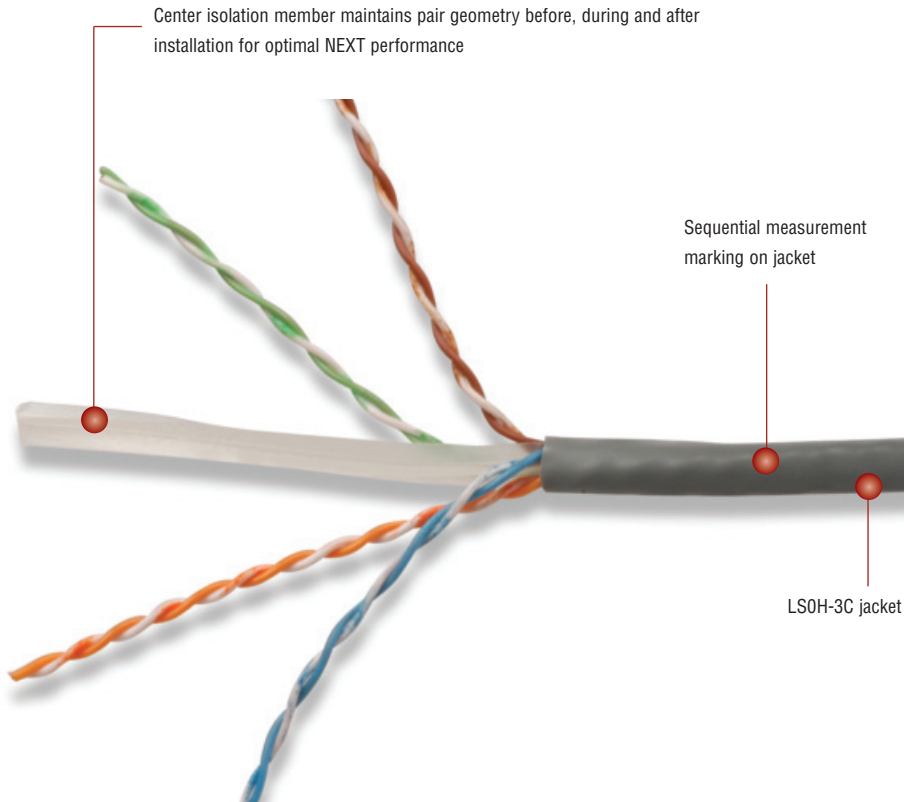


# System 6<sup>®</sup> UTP LSOH Cable (IEC 60332-3C)

System 6 cable provides significant headroom above all ANSI/TIA and ISO/IEC category 6/class E transmission performance specifications. Combine our high performance category 6 connectivity with System 6 cable and the result is a system with superior electrical performance for optimum applications support.

This cable has been formulated to meet IEC 60332-3C which is a more demanding flammability specification for bundled cables.



## CABLE CONSTRUCTION

- UTP
- 0.55mm (0.022 in.) (23 AWG) solid bare copper
- 6.20mm (0.24 in.) max jacket diameter
- Round jacket, Flame retardant, Low Smoke Zero Halogen
- Center isolation member
- Conductor Insulation: Solid High Density Polyethylene

## COMPLIANCE

- ISO/IEC 11801-1 Ed.1.0 (Category 6)
- ANSI/TIA-568.2-D
- IEC 61156-5:2002 (Category 6)
- LSOH:IEC 60332-3-24, IEC 60332-3-25, IEC 60754-2, IEC 61034 and UL 444
- 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	<7.32 Ω/100m
DC Resistance Unbalance	5%
Mutual Capacitance	<5.6 nF/100m
Capacitance Unbalance	<1600 pF/100m
Characteristic Impedance (ohms)	@100 MHz: 100 ± 5%
NVP	66%
TCL	30-10 log(f/100) dB
Delay Skew	≤35ns

## PHYSICAL PROPERTIES

Pulling Tension (max)	110N (25 lbf)
Bend Radius (min)	25mm (1 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)		PSNEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PSACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical
1	2.1	1.7	75.3	107.7	72.3	101.4	73.2	106.0	70.2	99.7	68.0	95.3	65.0	86.8	20.0	28.1	570	496
4	3.8	3.5	66.3	93.5	63.3	84.3	62.4	90.0	59.4	80.7	56.0	83.3	53.0	74.7	23.0	33.9	552	492
10	6.0	5.6	60.3	85.2	57.3	78.5	54.3	79.6	51.3	72.9	48.0	75.6	45.0	67.0	25.0	37.4	545	488
16	7.6	7.1	57.2	87.2	54.2	77.8	49.6	80.1	46.6	70.7	43.9	71.5	40.9	63.3	25.0	40.9	543	486
20	8.5	8.0	55.8	85.9	52.8	78.3	47.3	77.9	44.3	70.4	42.0	69.3	39.0	61.5	25.0	42.8	542	486
31.25	10.7	10.0	52.9	81.0	49.9	74.7	42.1	71.0	39.1	64.6	38.1	65.6	35.1	58.3	23.6	41.7	540	485
62.5	15.5	14.3	48.4	74.9	45.4	67.6	32.9	60.6	29.9	53.4	32.1	60.8	29.1	53.8	21.5	49.4	539	484
100	19.9	18.3	45.3	73.3	42.3	65.2	25.4	55.0	22.4	47.0	28.0	61.5	25.0	51.1	20.1	48.2	538	483
160	25.7	23.2	42.2	65.3	39.2	57.1	16.5	42.0	13.5	33.9	23.9	53.9	20.9	44.8	18.7	45.9	537	483
200	29.1	26.0	40.8	69.1	37.8	60.4	11.6	43.1	8.6	34.4	22.0	48.3	19.0	42.6	18.0	44.2	537	483
250	33.0	30.2	39.3	61.1	36.3	52.7	6.3	30.9	3.3	22.5	20.0	46.8	17.0	41.8	17.3	40.1	536	483
300*	-	33.3	-	59.4	-	50.5	-	26.1	-	17.2	-	45.5	-	40.2	-	40.2	-	483
400*	-	38.9	-	57.2	-	48.4	-	18.3	-	9.5	-	46.8	-	39.4	-	38.8	-	483
500*	-	43.7	-	58.9	-	52.3	-	15.2	-	8.6	-	45.0	-	37.1	-	36.8	-	482
550*	-	46.3	-	54.7	-	47.2	-	8.4	-	1.0	-	40.3	-	35.0	-	37.8	-	483
600*	-	48.6	-	56.6	-	48.0	-	8.0	-	-0.6	-	41.9	-	35.1	-	40.5	-	482

\* Values above 250 MHz are informational only.

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

\*\*Based on IEC for international cables

## Part # Description

9C6H4-E3.....LS0H (IEC 60332-3-24), Violet Jacket, 305m (1000 ft) Reel-in-Box

9C6J4-E3.....LS0H (IEC 60332-3-25), Violet Jacket, 305m (1000 ft) Reel-in-Box

Other cable lengths also available: Add "-5CR" for 500m (1640 ft.) Reel, "-1KR" for 1000m (3,281 ft.) Reel

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

**North America**  
Watertown, CT USA  
Phone (1) 860 945 4200 US  
Phone (1) 888 425 6165 Canada

**Europe/Middle East/Africa**  
Surrey, England  
Phone (44) 0 1932 571771

**Asia/Pacific**  
Shanghai, P.R. China  
Phone (86) 21 5385 0303

**Latin America**  
Bogota, Colombia  
Phone (571) 657 1950