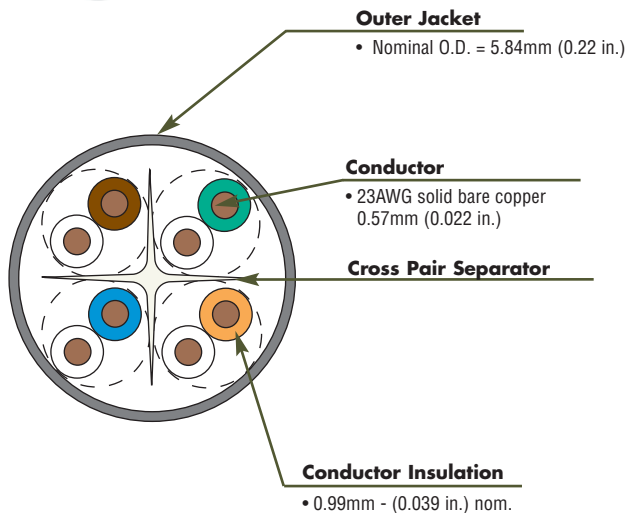
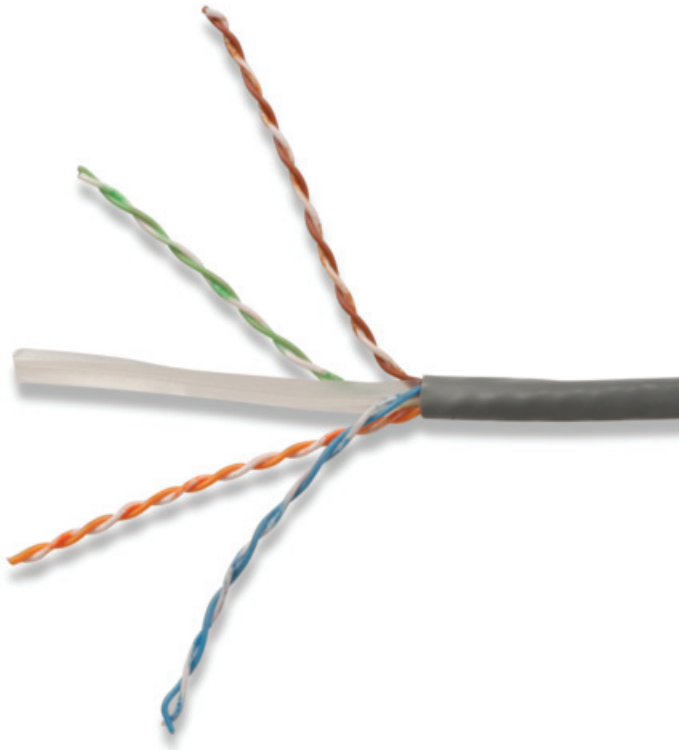


# System 6™ UTP Cable (International)

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.



## HIGHLIGHTS

- Supports all applications designed to operate over Category 6 or lower rated systems
- Sequential measurement markings on jacket
- Category 6 Performance and tested to 550 MHz

## CABLE CONSTRUCTION

- UTP, 4-Pair
- CM, CMR and LSOH IEC 60332-1 jacket types available
- Center isolation member maintains pair geometry for optimal NEXT performance

## STANDARDS

- ISO/IEC 11801 Ed. 2.2 (Class E)
- IEC 61156-5:2009 (Category 6)
- ANSI/TIA-568-C.2 (Category 6)
- UL CMR and CSA FT4
- UL CM
- LSOH: IEC 60332-1, IEC 60754, and IEC 61034

## APPLICATIONS SUPPORT

- 10BASE-T
- 100BASE-T
- 1000BASE-T
- IEEE 802.3 af (PoE)
- IEEE 802.3at PoE+

# Product Information

Part #	Description
9C6(X)4-E3-RXA	.....305m (1000 ft) Reel
9C6(X)4-E3	.....305m (1000 ft) Reel-in-Box
9C6(X)4-E3-5CR	.....500m (1640 ft) Reel
9C6(X)4-E3-1KR	.....1000m (3280 ft) Reel

Use (X) to specify jacket type:  
 L = LSOH ( IEC 60332-1 ) Violet Jacket  
 M = PVC ( CM, IEC 60332-1 ) Gray Jacket  
 R = PVC ( CMR, CSA FT4 ) Blue Jacket

For special color or packaging requests, please contact Siemon Customer Service

## PHYSICAL PROPERTIES

	LSOH	CM/CMR
Pulling Tension (max)	110N	110N
Bend Radius (min)	25mm	25mm
Installation Temperature	0 to 50°C	0 to 50°C
Storage Temperature	-20 to 60°C	-20 to 60°C
Operating Temperature	-20 to 60°C	-20 to 60°C

## ELECTRICAL SPECIFICATIONS

DC Resistance	<7.32Ω/100m
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<160 pF/100m
NVP	68%
Delay Skew	≤35ns

## 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)		TCL (dB)		Propagation Delay (ns)	
	2.0	1.8	77.3	87.3	75.3	82.3	70.8	84.8	68.8	79.8	21.0	29.0	75.3	85.5	73.3	80.5	40.0	57.1	550.0	545.0
4.0	3.7	3.5	68.3	78.3	66.3	73.3	58.8	72.8	56.8	67.8	24.0	32.0	64.5	74.8	62.5	69.8	40.0	47.4	532.0	527.0
10.0	5.9	5.6	62.3	72.3	60.3	67.3	50.8	64.8	48.8	59.8	26.0	38.0	56.4	66.7	54.4	61.7	40.0	50.5	525.0	520.0
16.0	7.5	7.1	59.2	69.2	57.2	64.2	46.7	60.7	44.7	55.7	26.0	34.0	51.8	62.1	49.8	57.1	38.0	49.4	523.0	518.0
20.0	8.4	7.9	57.8	67.8	55.8	62.8	44.8	58.8	42.8	53.8	26.0	34.0	49.4	59.9	47.4	54.9	37.0	54.6	522.0	517.0
31.25	10.6	10.0	54.9	64.9	52.9	59.9	40.9	54.9	38.9	49.9	24.6	32.0	44.3	54.9	42.3	49.9	35.1	48.2	520.0	515.0
62.5	15.2	14.4	50.4	60.4	48.4	55.4	34.9	48.9	32.9	43.9	22.5	32.0	35.1	46.0	33.1	41.0	32.0	48.4	519.0	514.0
100.0	19.6	18.6	47.3	57.3	45.3	52.3	30.8	44.8	28.8	39.8	21.1	32.0	27.7	38.7	25.7	33.7	30.0	53.6	518.0	513.0
160.0	25.4	24.1	44.2	54.2	42.2	49.2	26.7	40.7	24.7	35.7	19.7	31.0	18.9	30.1	16.9	25.1	28.0	45.6	517.0	512.0
200.0	28.7	26.8	42.8	52.8	40.8	47.8	24.8	38.8	22.8	33.8	19.0	29.0	14.1	26.0	12.1	21.0	27.0	44.7	517.0	512.0
250.0	32.6	30.5	41.3	51.3	39.3	46.3	22.8	37.0	20.8	31.8	18.3	29.0	8.8	20.8	6.8	15.8	26.0	38.8	516.0	511.0
300.0*	-	33.7	-	50.0	-	45.0	-	36.0	-	30.0	-	27.0	-	16.3	-	11.3	-	44.6	-	511.0
400.0*	-	40.3	-	48.0	-	43.0	-	32.0	-	27.0	-	26.0	-	7.7	-	2.7	-	42.1	-	511.0
500.0*	-	39.9	-	48.0	-	42.0	-	31.0	-	26.0	-	25.0	-	8.1	-	2.1	-	36.8	-	511.0
550.0*	-	39.7	-	46.0	-	42.0	-	30.0	-	26.0	-	24.0	-	6.3	-	2.3	-	34.9	-	510.0

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

All performance based on 100 meters.