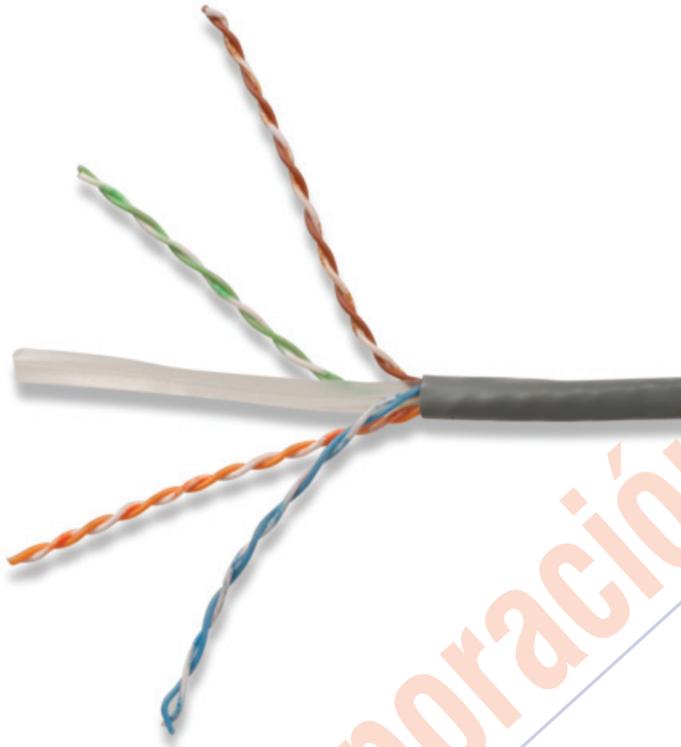


System 6[®] UTP 4-Pair Cable E3 - International

System 6 cable provides significant headroom above all ISO/IEC and ANSI/TIA 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.



Outer Jacket

- Nominal O.D. = 5.84mm (0.22 in.)

Conductor

- 23AWG solid bare copper
0.57mm (0.022 in.)

Cross Pair Separator

Conductor Insulation

- 0.99mm - (0.039 in.) nom.

COMPLIANCE

- ISO/IEC 11801-1 Ed 1.0 (Class E)
- IEC 61156-5:2009 (Category 6)
- ANSI/TIA-568.2-D (Category 6)
- UL CMR and CSA FT4
- UL CM, IEC 60332-1, EN 50399 Class E_{ca}
- LSOH: IEC 60332-1, IEC 60332-3-22, IEC 60754, IEC 61034, and EN 50399 Class D_{ca}S₂d_{2a1}
- 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)

CABLE CONSTRUCTION

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

Product Information

Part #	Description
9C6(X)4-E3-RXA305m (1000 ft.) Reelex
9C6(X)4-E3-5CR500m (1640 ft.) reel
9C6(X)4-E3-1KR1000m (3280 ft.) reel

Use (X) to specify jacket type:

L = LSOH (IEC 60332-1, IEC 60332-3-22), Violet Jacket, Class E_{ca}, D_{ca}

M = PVC (CM, IEC 60332-1), Gray Jacket, Class E_{ca}

R = PVC (CMR, CSA FT4), Blue Jacket

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

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

PHYSICAL PROPERTIES

	LSOH	CM/CMR
Pulling Tension (max)	110N (25 lbf)	110N (25 lbf)
Bend Radius (min)	25mm (0.98 in.)	25mm (0.98 in.)
Installation	0 to 50°C (+32 to 122°F)	0 to 50°C (+32 to 122°F)
Storage Temperature	-20 to 60°C (-4 to 140°F)	-20 to 60°C (-4 to 140°F)
Operating Temperature	-20 to 60°C (-4 to 140°F)	-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-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 (328 ft.).