

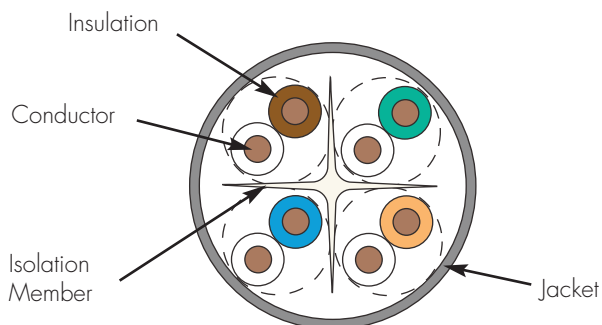
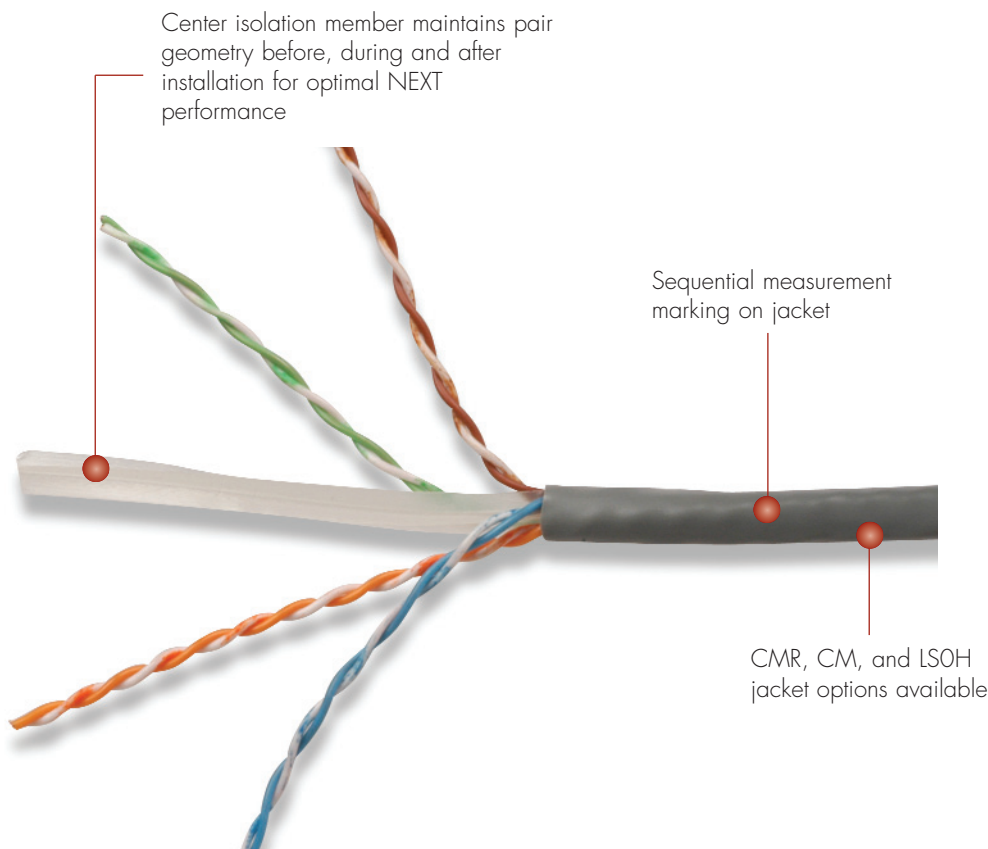
SYSTEM 6 UTP CABLE

System 6 cable provides significant headroom above all TIA/EIA 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.



Cable Construction

- UTP
- 0.57mm (0.023 in.) (23 AWG) solid bare copper
- 6.35mm (0.25 in.) max jacket diameter
- Round jacket
- Center isolation member



Compliance

- ISO/IEC 11801:2002 (Category 6)
- ANSI/TIA-568-C.2
- IEC 61156-5:2002 (Category 6)
- UL CM, IEC 60332-1
- UL CMR and CSA FT4
- LSOH: IEC 60332-1, IEC 60754, and IEC 61034

PRODUCT INFORMATION

ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38 Ω /100m
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1-100 MHz: 100 $\pm$ 15% 100-550 MHz: 100 $\pm$ 22%
NVP	68%
TCL	30-10 log(f/100) dB
Delay Skew	$\leq$ 35ns

PHYSICAL PROPERTIES

	LSOH	CM/CMR
Pulling Tension (max)	110N (25 lbf)	110N (25 lbf)
Bend Radius (min)	25mm (1.0 in.)	25mm (1.0 in.)
Installation Temperature	0 to 60°C (+32 to 140°F)	0 to 60°C (+32 to 140°F)
Storage Temperature	-20 to 75°C (-4 to 167°F)	-20 to 75°C (-4 to 167°F)
Operating Temperature	-20 to 60°C (-4 to 140°F)	-20 to 60°C (-4 to 140°F)

TRANSMISSION PERFORMANCE

TIA/EIA & ISO/IEC

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)		Propagation Delay (ns)	
1.0	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	550	545
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	532	527
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	525	520
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	523	518
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	522	517
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	520	515
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	518	514
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	517	513
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	516	512
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	516	512
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	516	511
300.0*	-	33.7	-	50.0	-	45.0	-	36.0	-	30.0	-	27.0	-	16.3	-	11.3	-	511
400.0*	-	40.3	-	48.0	-	43.0	-	32.0	-	27.0	-	26.0	-	7.7	-	2.7	-	511
500.0*	-	39.9	-	48.0	-	42.0	-	31.0	-	26.0	-	25.0	-	8.1	-	2.1	-	511
550.0*	-	39.7	-	46.0	-	42.0	-	30.0	-	26.0	-	24.0	-	6.3	-	2.3	-	510

* Values above 250 MHz are informational only.

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

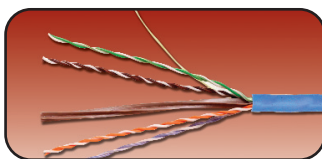
System 6® UTP 4-Pair Solid Cable:

9C6M4-E3PVC (CM, IEC 60332-1), Gray Jacket, 305m (1000 ft) Reel-in-Box

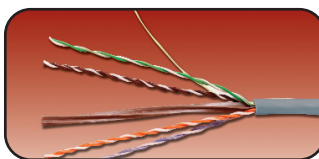
9C6R4-E3PVC (CMR, CSA FT4, Riser), Blue Jacket, 305m (1000 ft) Reel-in-Box

9C6L4-E3LSOH (IEC 60332-1), Violet Jacket, 305m (1000 ft) Reel-in-Box

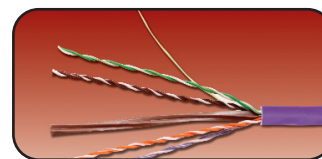
Other cable lengths also available: Add "-5CR" for 500m (1640 ft.) Reel, "-1KR" for 1000m (3,281 ft.) Reel



9C6R4-E3



9C6M4-E3



9C6L4-E3

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

For related product information request Spec Sheet(s):

MAX® 6 Modules (PROD-SS-10G6MXS)
MC® 6 Modular Patch Cords (PROD-SS-10G6MCS)
BladePatch 6 (PROD-SS-10G6BDPS)
HD 6 Patch Panels (PROD-SS-HD6)
MAX Patch Panels (PROD-SS-MXP)

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