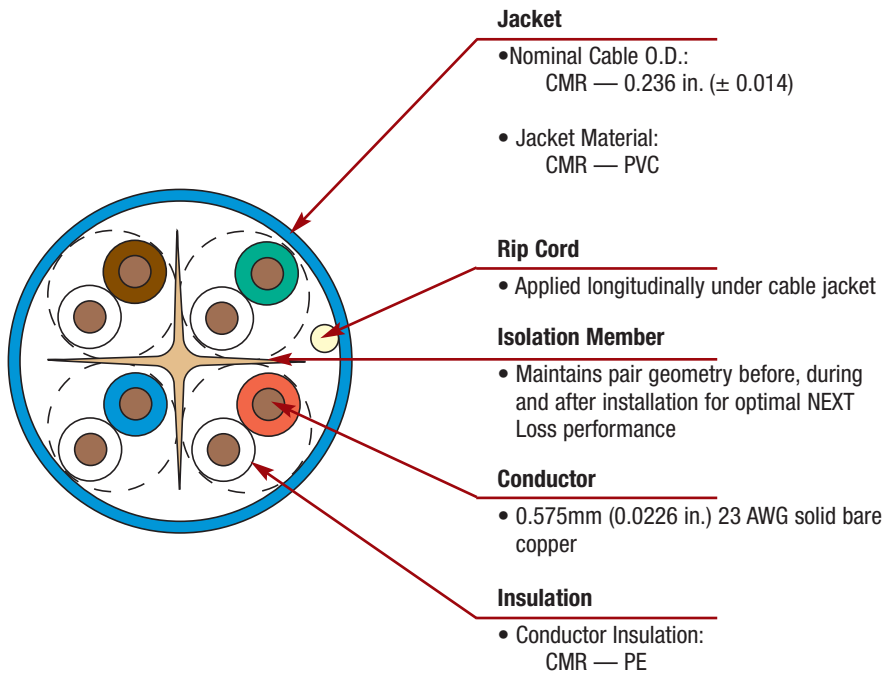
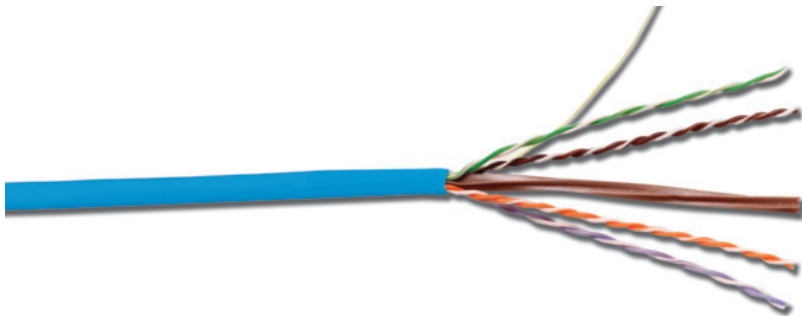


# SYSTEM 6® UTP CABLE —RISER-US

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

- Reverse sequential numbering
- Round jacket
- Center isolation member
- Jacket material is lead free

## PACKAGING

- 1000 ft. reel

## STANDARDS COMPLIANCE

- ISO/IEC 11801-1 Ed 1.0-2017 (Category 6)
- TIA 568.2-D-2018
- UL CMR and CSA FT4
- Transmission performance verified by UL
- RoHS compliant

## ETHERNET APPLICATIONS SUPPORT

- 1000BASE-T
- 100BASE-T
- 10BASE-T
- 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)

*Supports any application designed for category 6 or lower cabling*

# PRODUCT INFORMATION

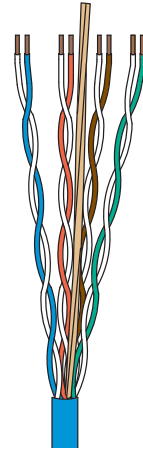
## System 6® UTP Cable

### 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 ± 15% 100 - 520 MHz: 100 ± 22%
NVP	CMR— 65%
TCL/LCL	30-10log(f/100)dB
Delay Skew	≤ 35ns/100m

### PHYSICAL PROPERTIES

	CMR
Pulling Tension (max)	110N (25 lbf)
Bend Radius (min)	25mm (1 in.)
Installation Temperature	-36 to 60°C (-32 to 140°F)
Storage Temperature	-34 to 75°C (-30 to 167°F)
Operating Temperature	-34 to 60°C (-30 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)	
	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical
1.0	2.0	1.8	77.3	87.3	75.3	82.3	75.3	85.5	73.3	80.5	70.8	84.8	68.8	79.8	20.0	29.0	550	545
4.0	3.8	3.5	68.3	78.3	66.3	73.3	64.5	74.8	62.5	69.8	58.8	72.8	56.8	67.8	23.6	32.0	532	527
10.0	5.9	5.6	62.3	72.3	60.3	67.3	56.4	66.7	54.4	61.7	50.8	64.8	48.8	59.8	26.0	38.0	525	520
16.0	7.5	7.1	59.2	69.2	57.2	64.2	51.8	62.1	49.8	57.1	46.7	60.7	44.7	55.7	26.0	34.0	523	518
20.0	8.4	7.9	57.8	67.8	55.8	62.8	49.4	59.9	47.4	54.9	44.8	58.8	42.8	53.8	26.0	34.0	522	517
31.25	10.6	10.0	54.9	64.9	52.9	59.9	44.3	54.9	42.3	49.9	40.9	54.9	38.9	49.9	25.0	32.0	520	515
62.5	15.2	14.4	50.4	60.4	48.4	55.4	35.1	46.0	33.1	41.0	34.9	48.9	32.9	43.9	23.5	32.0	519	514
100.0	19.6	18.6	47.3	57.3	45.3	52.3	27.7	38.7	25.7	33.7	30.8	44.8	28.8	39.8	22.5	32.0	518	513
160.0	25.4	24.1	44.2	54.2	42.2	49.2	18.9	30.1	16.9	25.1	26.7	40.7	24.7	35.7	21.5	31.0	517	512
200.0	28.7	26.8	42.8	52.8	40.8	47.8	14.1	26.0	12.1	21.0	24.8	38.8	22.8	33.8	21.0	29.0	517	512
250.0	32.6	30.5	41.3	51.3	39.3	46.3	8.8	20.8	6.8	15.8	22.8	37.0	20.8	31.8	20.5	29.0	516	511
300.0*	36.1	33.7	40.1	50.0	38.1	45.0	4.0	16.3	2.0	11.3	21.3	36.0	19.3	30.0	20.1	27.0	516	511
400.0*	42.6	40.3	38.3	48.0	36.3	43.0	-4.3	7.7	-6.3	2.7	18.8	32.0	16.8	27.0	19.5	26.0	516	511
500.0*	48.5	39.9	36.8	48.0	34.8	42.0	-11.7	8.1	-13.7	2.1	16.8	31.0	14.8	26.0	19.0	25.0	516	511
550.0*	51.3	39.7	36.2	46.0	34.2	42.0	-15.1	6.3	-17.1	2.3	16.0	30.0	14.0	26.0	18.8	24.0	516	510

\*Performance for frequencies above 250 MHz are for information only.

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

### System 6 Riser 4-Pair UTP Cable (CMR, CSA Type FT4):

9C6R4-E3-(XX)-RXA.....Riser, 1000 ft. Reellex

Use (XX) to specify jacket color: 02 = white, 03 = red, 04 = gray, 05 = yellow, 06 = blue, 07 = green, 08 = violet, 09 = orange

Cable colors highlighted in red in 1000 ft. package indicate FOCUS products which are readily available. Other colors may have extended lead times and minimum purchase requirements.

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