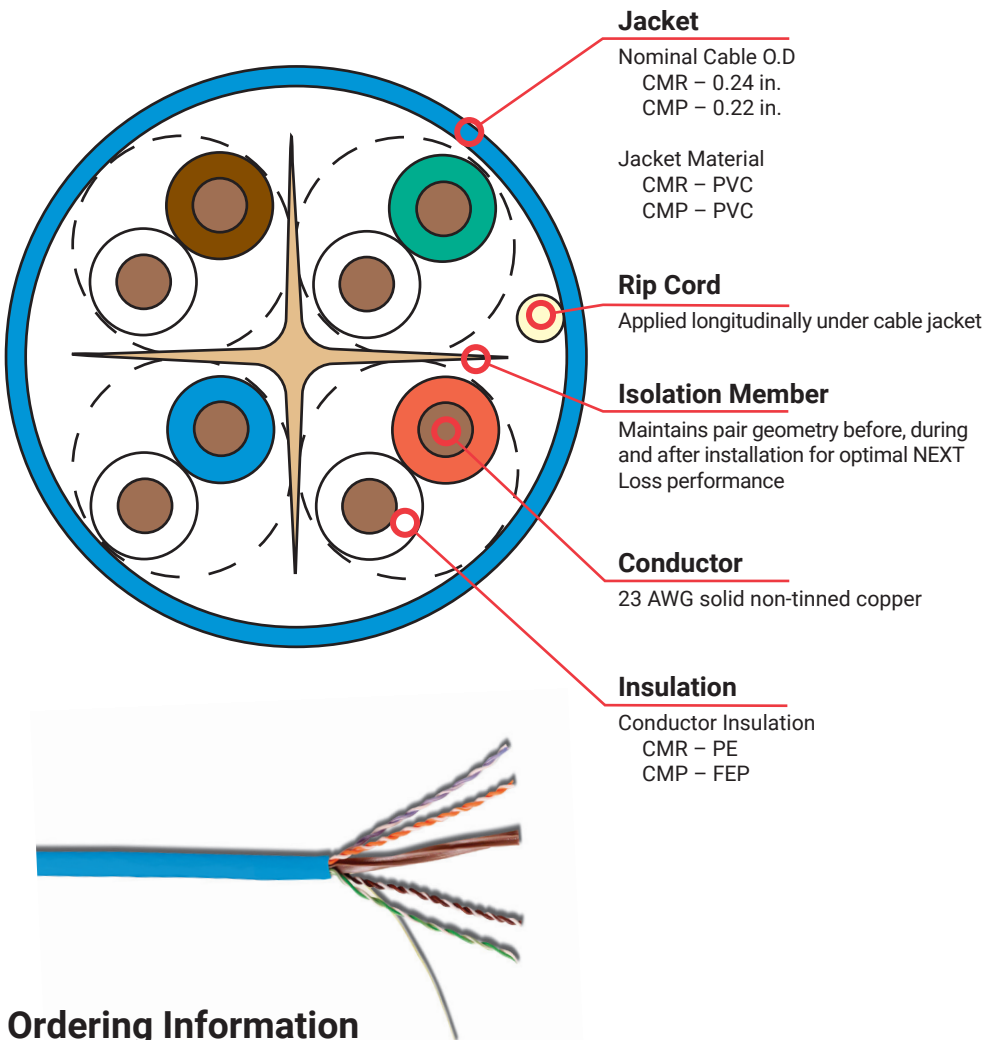


Premium 6 UTP Cable

Regional Availability - North America

Siemon's Premium 6 cable provides performance exceeding Category 6 transmission levels for both ANSI/TIA-568.2-E and ISO/IEC 11801-1 industry standards. Combine our high performance Category 6 connectivity with Premium 6 cable and the result is a system with superior electrical performance. The additional headroom above industry standard transmission levels provides a high level of immunity to installation variables ensuring reliable application support over the life of your cabling system.



Highlights

- Transmission performance verified by UL
- Reverse sequential length markings
- Round jacket
- Center isolation member
- Jacket material is lead free
- Supports any application designed for category 6 or lower cabling

Packaging

- 1000 ft. reel in a box
- Weight
CMR – 34 lbs/1000 ft.
CMP – 35 lbs/1000 ft.

Compliance

- ISO/IEC 11801-1 Ed 1.0 (Category 6)
- ANSI/TIA-568.2-E (Category 6)
- IEC 61156-5:2002 (Category 6)
- c(UL)us CMP and CSA FT6
- c(UL)us CMR and CSA FT4
- 10BASE-T
- 100BASE-T
- 1000BASE-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)

Ordering Information

Premium 6 Plenum 4-Pair UTP Cable (CMP, CSA Type FT6)

Part Number	Description
9C6P4-E4-(XX)-RBA	Plenum, 1000 ft. Reel-In-Box

Premium 6 Riser 4-Pair UTP Cable (CMR, CSA Type FT4)

Part Number	Description
9C6R4-E4-(XX)-RBA	Riser, 1000 ft. Reel-In-Box

Use (XX) to specify jacket color: 01 = black, 02 = white, 03 = red, 04 = gray, 05 = yellow, 06 = blue, 07 = green

Some colors may carry a minimum order quantity. Contact Siemon Customer Service for more information.

Product Information

Electrical Specifications

DC Resistance	<9.38Ω/100m
DC resistance Unbalance	≤5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1-100 MHz: 100 ± 15% 101-250 MHz: 100 ± 20%
NVP	CMP - 73% CMR - 70.2%
TCL	30-10 x log(f/100) dB
Delay Skew	≤45ns

Physical Properties

	CMP	CMR
Pulling Tension (max)	110N (25 lbf)	110N (25 lbf)
Bend Radius (min)	22.4mm (0.88 in.)	24.4mm (0.96 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 75°C (-4 to 167°F)	-20 to 75°C (-4 to 167°F)

Transmission Performance

Guaranteed worse 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)	
1	2.0	1.7	81.3	103.8	79.3	98.6	79.3	102.2	77.3	96.9	74.8	94.0	71.8	88.9	21.00	29.5	570	491
4	3.7	3.4	72.3	94.8	70.3	87.6	68.6	91.3	66.6	84.2	62.7	82.2	59.7	77.0	24.01	34.8	552	486
10	5.8	5.5	66.3	85.2	64.3	78.8	60.5	79.7	58.5	73.3	54.8	74.6	51.8	69.3	26.00	35.3	545	481
16	7.3	7.0	63.2	85.8	61.2	78.2	55.9	78.8	53.9	71.2	50.7	71.0	47.7	65.6	26.00	36.8	543	480
20	8.2	7.9	61.8	82.5	59.8	75.7	53.6	74.7	51.6	67.8	48.7	69.3	45.7	64.0	26.00	36.6	542	480
31.25	10.4	9.9	58.9	82.2	56.9	74.2	48.5	72.3	46.5	64.3	44.9	66.8	41.9	61.2	25.03	36.6	540	479
62.5	14.9	14.2	54.4	74.3	52.4	66.0	39.4	60.1	37.4	51.9	38.8	62.2	35.8	57.0	23.53	34.6	539	478
100	19.2	18.3	51.3	70.8	49.3	62.9	32.1	52.5	30.1	44.6	34.8	56.1	31.8	49.3	22.51	39.9	538	477
160	24.8	23.6	48.2	70.0	46.2	63.4	23.4	46.4	21.4	39.9	30.7	49.8	27.7	42.3	21.48	33.4	537	477
200	28.1	26.4	46.8	70.0	44.8	63.2	18.7	43.6	16.7	36.8	28.7	48.9	25.7	41.4	21.00	32.2	537	477
250	31.9	30.5	45.3	67.5	43.3	59.6	13.5	37.0	11.5	29.1	26.8	48.0	23.8	40.3	20.52	33.4	536	477
300*	35.3	33.8	44.1	67.1	42.1	58.9	8.8	33.3	6.8	25.1	25.2	48.1	22.2	42.0	20.12	33.1	536	477
400*	41.7	39.8	42.3	63.4	40.3	55.2	0.6	23.6	-1.4	15.4	22.7	43.4	19.7	37.3	19.49	31.2	536	477
500*	47.5	45.0	40.8	58.0	38.8	50.3	-6.7	13.0	-8.7	5.3	20.8	41.0	17.8	33.3	19.01	28.7	536	476
550*	50.2	47.8	40.2	57.2	38.2	51.1	-10.0	9.4	-12.0	3.3	19.9	38.3	16.9	33.1	18.80	31.0	536	476
600*	52.9	50.3	39.6	57.5	37.6	50.2	-13.2	7.2	-15.2	-0.1	19.2	36.5	16.2	30.6	18.61	30.0	535	477

*Values above industry requirements are for information only.

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



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

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