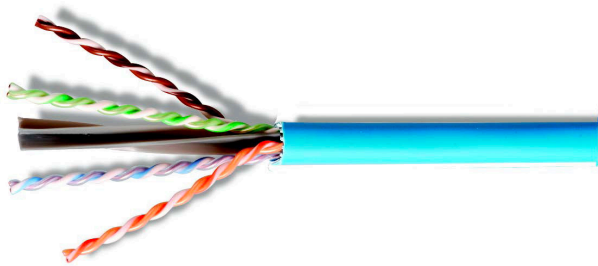
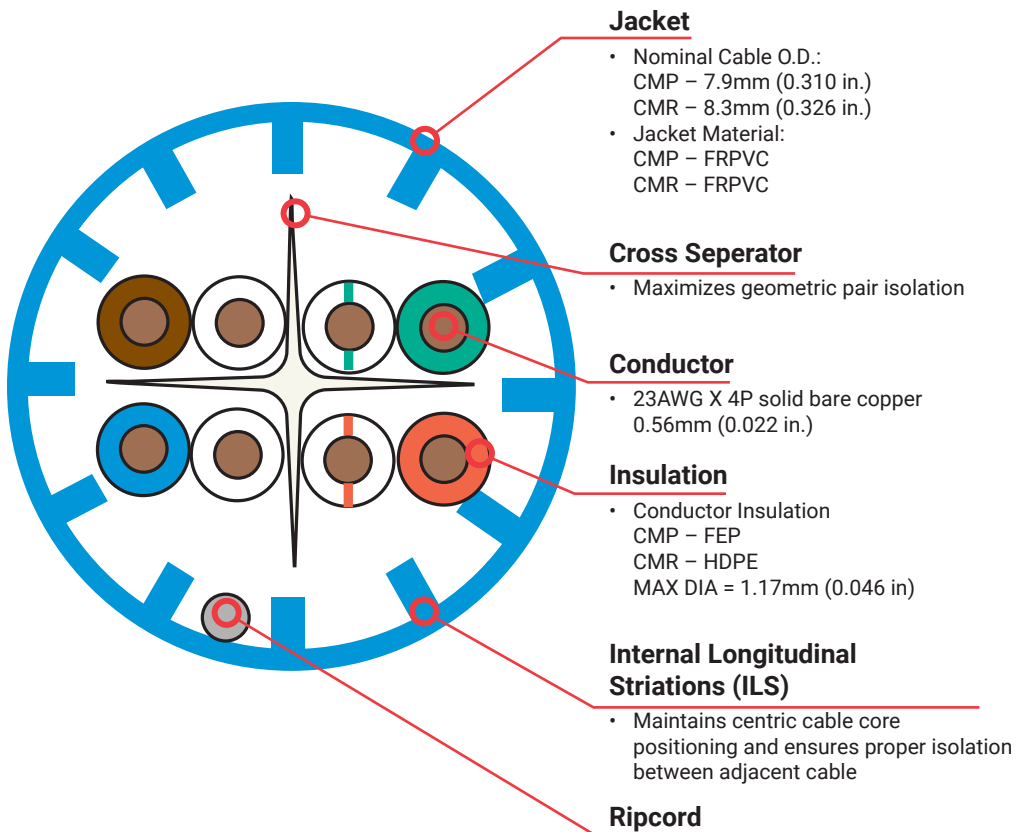


Category 6A UTP Cable - US

Regional Availability - North America

Siemon's Category 6A UTP cable provides channel performance exceeding TIA and ISO/IEC 6A requirements when used with Z-MAX™ 6A UTP connectivity. Siemon's category 6A UTP cable with cross separator uses a central pair separator for optimal pair-to-pair crosstalk isolation as well as Internal Longitudinal Striation (ILS™) jacket construction to reduce alien crosstalk (AXT) coupling between adjacent cables.



Compliance

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568.2-D
- UL CMR and CSA FT4
- UL CMP and CSA FT6
- CMP-LP(0.5) 100W

Cable Construction

- UTP
- CMP Nominal Cable O.D: 7.9mm (0.31 in.)
- CMR Nominal Cable O.D: 8.3mm (0.326 in.)
- 0.56mm (0.022 in.) (23 AWG) solid bare copper
- Round jacket with Internal Longitudinal Striations (ILS)

Ethernet Applications Support

- 10GBASE-T
- 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)

Product Information

Electrical Specifications

DC Resistance	9.38Ω/100m @ 20°C
DC Resistance Unbalance	4% @ 20°C
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	330 pF/100m
Characteristic Impedance (ohms)	1 - 100 MHz: 100 ± 15% 100 - 200 MHz: 100 ± 22% 200 - 500 MHz: 100 ± 32%
NVP	67%
TCL	30 -10 log(f/100) dB
PSANEXT	62.5 -15 log(f/100) dB
PSAACRF	38.2 -20 log(f/100) dB
Delay Skew	≤45ns/100m
PoE	Suitable for PoE Type 1,2,3,4

Physical Properties

	CMP	CMR
Pulling Tension (max)	110 N (25 lbf)	110N (25 lbf)
Bend Radius (min)	34mm (1.3 in.)	34mm (1.3 in.)
Installation Temperature	0 to 50°C (+32 to 122°F)	0 to 50°C (+32 to 122°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 Worst Case
 Siemon Typical

Test Parameter	Frequency (MHz)																
	1.0	4.0	10.0	16.0	20.0	31.25	62.5	100.0	160.0	200.0	250.0	300.0	400.0	500.0	550.0*	625.0*	750.0*
Insertion Loss (dB)	2.1	3.8	5.9	7.5	8.4	10.5	15.0	19.1	24.5	27.6	31.1	34.3	40.1	45.3	-	-	-
	1.8	3.6	5.7	7.3	8.1	10.2	14.6	18.6	23.7	26.5	29.9	32.9	38.4	43.3	45.7	49.4	54.1
NEXT (dB)	75.3	66.3	60.3	57.2	55.8	52.9	48.4	45.3	42.2	40.8	39.3	38.1	36.3	34.8	-	-	-
	96.8	90.6	79.2	75.5	65.0	68.4	65.5	63.6	57.7	59.6	51.8	56.2	45.8	50.5	52.2	45.1	26.4
PS NEXT (dB)	73.3	64.3	58.3	55.2	53.8	50.9	46.4	43.3	40.2	38.8	37.3	36.1	34.3	32.8	-	-	-
	95.2	88.0	78.7	73.2	64.6	65.8	62.5	60.6	56.6	58.1	50.8	53.1	45.4	47.5	49.1	43.6	26.3
ACR-F (dB)	73.3	61.3	53.3	49.2	47.3	43.4	37.4	33.3	29.2	27.3	25.3	23.8	21.3	19.3	-	-	-
	84.7	73.0	65.3	60.9	59.0	55.3	52.7	48.1	46.1	43.4	42.0	41.3	37.6	29.3	34.3	31.7	30.1
PS ACR-F (dB)	71.3	59.3	51.3	47.2	45.3	41.4	35.4	31.3	27.2	25.3	23.3	21.8	19.3	17.3	-	-	-
	82.3	70.7	63.4	59.5	57.7	54.2	50.3	45.0	43.7	46.6	39.4	39.3	35.4	28.2	31.5	28.9	29.2
Return Loss (dB)	20.0	23.0	25.0	25.0	25.0	23.7	21.5	20.1	18.7	18.0	17.3	17.3	17.3	17.3	-	-	-
	28.4	30.7	34.8	37.2	36.5	37.6	36.2	34.2	32.7	32.5	28.4	27.3	28.8	23.4	22.6	22.8	21.6
ACR-N (dB)	73.2	62.5	54.4	49.8	47.4	42.4	33.4	26.2	17.7	13.2	8.3	3.9	-3.8	-10.4	-	-	-
	95.1	87.1	73.7	68.6	56.9	58.2	51.5	45.7	34.9	33.9	22.8	24.3	8.5	8.5	7.7	-4.3	-26.0
PS ACR-N (dB)	71.2	60.5	52.4	47.8	45.4	40.4	31.4	24.2	15.7	11.2	6.3	1.9	-5.8	-12.4	-	-	-
	93.5	84.4	73.1	66.1	56.7	55.9	48.4	42.7	33.7	32.3	21.8	21.2	7.9	5.5	5.3	-4.6	-27.2
PS AACRF (dB)	67.0	65.3	57.1	53.1	51.1	47.2	41.1	37.0	32.9	31.0	29.1	27.5	25.0	23.0	-	-	-
	93.1	92.6	90.0	89.6	82.8	80.7	77.2	73.3	70.1	65.9	61.7	58.1	52.9	47.1	43.3	39.3	39.8
PS ANEXT (dB)	80.0	74.2	70.0	68.1	67.1	65.1	62.1	60.0	57.0	55.5	54.0	52.8	51.0	49.5	-	-	-
	93.3	94.3	92.5	93.3	89.7	90.7	89.0	91.3	90.3	89.4	91.2	89.1	89.6	86.6	85.3	83.4	86.4
Propagation Delay (ns)	570	552	545	543	542	540	539	538	537	537	536	536	536	536	-	-	-
	533	519	513	511	510	508	507	506	505	505	505	504	504	504	504	504	504

* Values above 500 MHz are informational only.

All performance based on 100 meters (328 ft.)

Ordering Information

Ordering Information

305m (1000 ft.) Reel (North America only)

Part Number	Description
9C6P4-A5-01AR1A	Plenum (CMP, CSA FT6), Black
9C6P4-A5-02AR1A	Plenum (CMP, CSA FT6), White
9C6P4-A5-03AR1A	Plenum (CMP, CSA FT6), Red
9C6P4-A5-04AR1A	Plenum (CMP, CSA FT6), Gray
9C6P4-A5-05AR1A	Plenum (CMP, CSA FT6), Yellow
9C6P4-A5-06AR1A	Plenum (CMP, CSA FT6), Blue
9C6P4-A5-07AR1A	Plenum (CMP, CSA FT6), Green
9C6P4-A5-08AR1A	Plenum (CMP, CSA FT6), Violet
9C6P4-A5-09AR1A	Plenum (CMP, CSA FT6), Orange
9C6R4-A5-01AR1A	Riser (CMR, CSA FT4), Black
9C6R4-A5-02AR1A	Riser (CMR, CSA FT4), White
9C6R4-A5-03AR1A	Riser (CMR, CSA FT4), Red
9C6R4-A5-04AR1A	Riser (CMR, CSA FT4), Gray
9C6R4-A5-05AR1A	Riser (CMR, CSA FT4), Yellow
9C6R4-A5-06AR1A	Riser (CMR, CSA FT4), Blue
9C6R4-A5-07AR1A	Riser (CMR, CSA FT4), Green
9C6R4-A5-08AR1A	Riser (CMR, CSA FT4), Violet
9C6R4-A5-09AR1A	Riser (CMR, CSA FT4), Orange

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

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