

Category 6A GT UTP 4-Pair Cable

Siemon's Category 6A Gap Technology (GT) UTP cable features a discontinuous foil construction which enables a typical UTP installation process and smaller cable diameter while providing improved heat dissipation and virtually zero alien crosstalk. These properties make this cable ideal for supporting applications using both remote powering and 10 Gb/s application speeds such as IEEE 802.11ac or IEEE 802.11ax wireless access points or other high speed emerging or converging IP building automation technologies.

COMPLIANCE

- ANSI/TIA-568-C.2
- IEC 61156-5 Ed 2.0
- ISO/IEC 11801 Ed 2.0
- UL CMR and CSA FT4
- UL CMP and CSA FT6

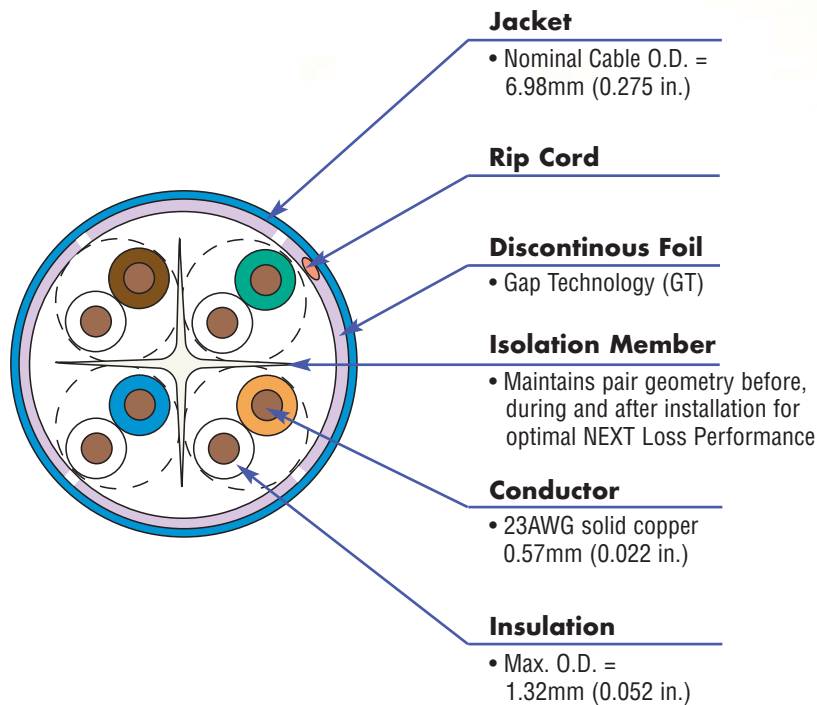
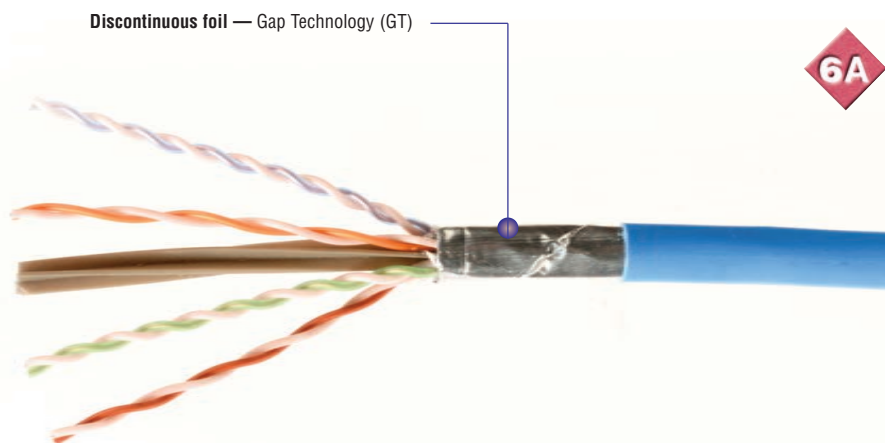
CABLE CONSTRUCTION

- GT UTP
- 0.57mm (0.023 in.) 23 AWG solid bare copper
- 6.98mm (0.275 in.) nom. jacket diameter
- Central isolation member
- 0.05mm (0.001 in.) discontinuous foil aluminum polyester tape applied over the core
- Reverse sequential measurement markings on jacket

APPLICATIONS SUPPORT

- 10GBASE-T
- 1000BASE-T
- 100BASE-T
- 10BASE-T
- HDBASE-T
- IEEE 802.3af (PoE)
- IEEE 802.3at (PoE+)

Supports all applications designed for category 6A or lower cabling



Product Information

CABLE — NORTH AMERICA

ELECTRICAL SPECIFICATIONS

DC Resistance	<8.0 Ω/100m
DC Resistance Unbalance	5%
Mutual Capacitance	5.1 nF/100m
Capacitance Unbalance	330 pF/100m
NVP	70% CMP/ 67% CMR
TCL	40-10 log(f/100) dB
Delay Skew	≤45ns

PHYSICAL PROPERTIES

	CMP	CMR
Pulling Tension (max)	110N (25 lbf)	110N (25 lbf)
Bend Radius (min)	28mm (1.1 in.)	28mm (1.1 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 WORST CASE



SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB/100)		NEXT (dB)		PS NEXT (dB)		ACR-N (dB)		PSACR-N (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical
1.0*	2.1	1.97	75.3	96.07	73.3	87.42	73.2	93.46	71.2	84.92	73.3	91.45	71.3	84.19	20.0	26.84	570	555
4.0	3.8	3.47	66.3	83.9	64.3	75.38	62.5	72.47	60.5	71.9	61.3	81.52	59.3	74.24	23.0	29.44	545	532
10.0	5.9	5.51	60.3	73.2	58.3	66.19	54.4	60.98	52.4	60.73	53.3	67.37	51.3	65.25	25.0	34.23	541	528
16.0	7.5	7.03	57.2	73.6	55.2	65.76	49.8	64.29	47.8	58.83	49.2	60.14	47.2	58.99	25.0	35.80	539	527
20.0	8.4	7.9	55.8	64.7	53.8	62.77	47.4	57.81	45.4	54.98	47.3	57.54	45.3	56.5	25.0	31.23	538	526
31.25	10.5	9.9	52.9	63.1	50.9	63.27	42.4	66.03	40.4	53.54	43.4	56.06	41.4	54.78	23.6	28.52	538	526
62.5	15.0	14.09	48.4	62.8	46.4	57.16	33.4	51.28	31.4	43.31	37.4	51.95	35.4	51.12	21.5	28.83	537	525
100.0	19.1	17.93	45.3	65	43.3	57.12	26.2	42.30	24.2	39.73	33.3	56.19	31.3	46.2	20.1	30.75	536	525
200.0	27.6	25.72	40.8	57.8	38.8	49.57	13.2	28.83	11.2	25.07	27.3	48	25.3	47.07	18.0	24.81	536	524
250.0	31.1	28.92	39.3	50.5	37.3	49.98	8.3	23.11	6.3	22.34	25.3	46.43	23.3	41.17	17.3	26.26	536	524
300.0	34.3	31.96	38.1	54.5	36.1	47.77	3.9	22.27	-1.9	16.47	23.8	41.92	21.8	40.21	17.3	25.80	536	524
400.0	40.1	37.38	36.3	53.9	34.3	43.38	-3.8	12.19	-5.8	8.87	21.3	40.93	19.3	36.68	17.3	33.09	536	524
500.0	45.3	42.01	34.8	49.2	32.8	46.69	-10.4	9.91	-12.4	5.41	19.3	34.41	17.3	26.7	17.3	24.96	536	524
550.0*	-	44.44	-	41.7	-	47.82	-	4.18	-	3.31	-	31.88	-	33.36	-	29.15	536	524
625.0*	-	48.18	-	41.7	-	41.57	-	-4.08	-	-6.2697	-	31.17	-	29.17	-	14.05	536	524
750.0*	-	54.18	-	49.2	-	38.41	-	-4.45	-	-15.89	-	28.24	-	17.53	-	29.15	536	524

*Values for frequencies above industry requirements are for information only.

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

Ordering Information

9U6(X)4-A5-(XX)-R1A. 305m (1000 ft.) Reel (North America Only)

Jacket Color

01 = Black 04 = Gray 07 = Green
 02 = White 05 = Yellow 08 = Violet
 03 = Red 06 = Blue 09 = Orange

Jacket Material

P = Plenum (CMP, CSA FT6)
 R = Riser (CMR, CSA FT4)

Lead time and minimum order quantities may vary by cable type. Please contact Customer Service for details.

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

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