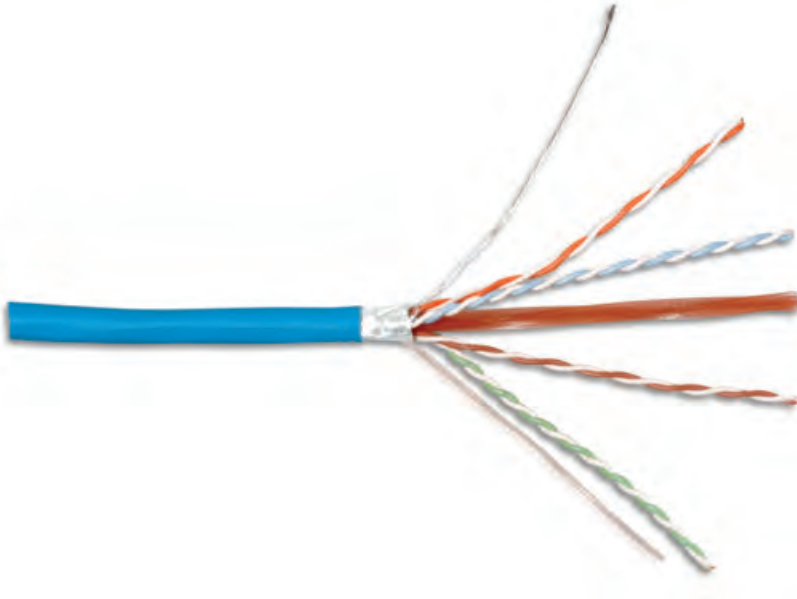


Category 6A F/UTP 4-Pair Cable (North America)

Siemon's Category 6A F/UTP cable provides channel performance exceeding ANSI/TIA-568-C.2 Category 6A requirements. When combined with our Z-Max® shielded connectivity, the result is best in class channel performance capable of supporting 10GBASE-T operation over 100-meter, 4-connector topologies. In addition the screened construction ensures virtually zero alien crosstalk. The Category 6A F/UTP cabling system supports emerging and converging IP applications like Voice Over IP (VoIP), IP video and future 10 gigabit applications.



CABLE CONSTRUCTION

- F/UTP
- 0.57mm (0.0275 in.) 23 AWG solid bare copper
- 6.99mm (0.28 in.) nom. jacket diameter
- Central isolation member
- Shield is an aluminum foil tape enclosing a tinned copper drain wire
- Reverse sequential measurement markings on jacket

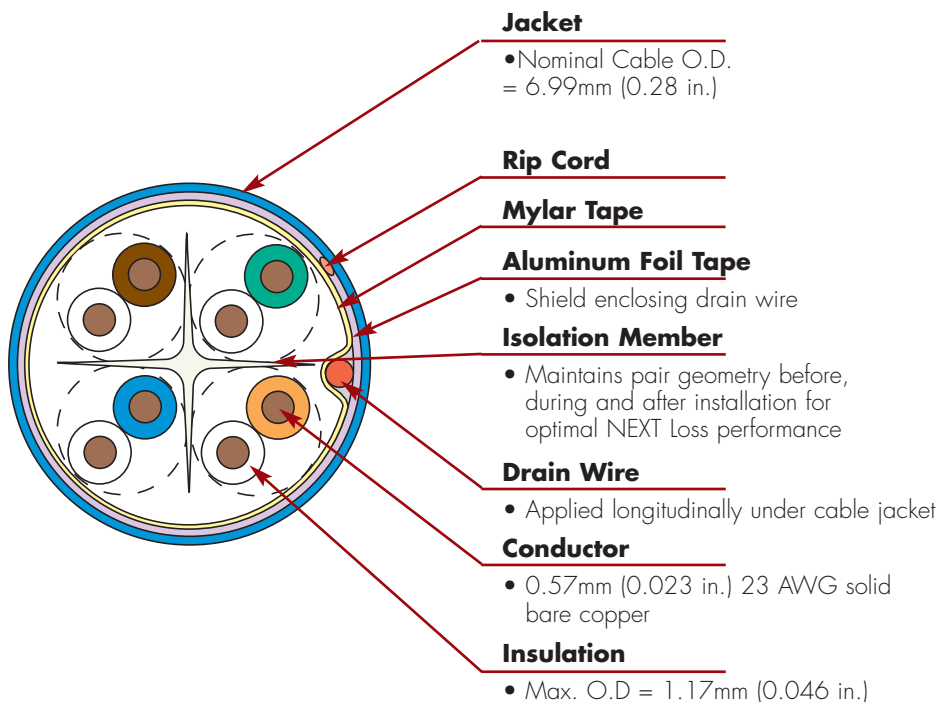
COMPLIANCE

- 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

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 augmented category 6 or lower cabling



Product Information

Ordering Information:

9A6(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.

ELECTRICAL SPECIFICATIONS

DC Resistance	<7.32 Ω /100m
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<160 pF/100m
NVP	67%
TCL	30-10 log(f/100) dB
Delay Skew	≤45ns
PoE	Suitable for PoE & PoE +

PHYSICAL PROPERTIES

	CMP	CMR
Pulling Tension (max)	110N (25 lbf)	110N (25 lbf)
Bend Radius (min)	50mm (2.0 in.)	50mm (2.0 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 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)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0*	2.1	1.8	75.3	86.0	73.3	82.3	73.2	84.2	71.2	80.5	73.3	91.0	71.3	85.0	20.0	33.0	570	570
4.0	3.8	3.4	66.3	77.0	64.3	73.3	62.5	73.6	60.5	69.9	61.3	79.0	59.3	73.0	23.0	35.5	552	552
10.0	5.9	5.4	60.3	71.0	58.3	67.3	54.4	65.6	52.4	61.9	53.3	71.0	51.3	65.0	25.0	38.0	545	545
16.0	7.5	6.9	57.2	68.0	55.2	64.2	49.8	61.1	47.8	57.3	49.2	67.0	47.2	61.0	25.0	35.2	543	543
20.0	8.4	7.7	55.8	67.0	53.8	62.8	47.4	59.3	45.4	55.1	47.3	65.0	45.3	59.0	25.0	35.0	542	542
31.25	10.5	9.9	52.9	64.0	50.9	59.9	42.4	54.1	40.4	50.0	43.4	61.0	41.4	55.0	23.6	33.1	540	540.4
62.5	15.0	14.3	48.4	59.0	46.4	53.4	33.4	44.7	31.4	41.1	37.4	55.0	35.4	49.0	21.5	32.2	539	538.6
100.0	19.1	18.1	45.3	56.0	43.3	52.0	26.2	37.9	24.2	33.9	33.3	51.0	31.3	45.0	20.1	31.6	538	537.6
200.0	27.6	27.3	40.8	52.0	38.8	47.8	13.2	24.7	11.2	20.5	27.3	45.0	25.3	39.0	18.0	29.8	537	536.5
250.0	31.1	31.1	39.3	50.0	37.3	46.0	8.3	18.9	6.3	14.9	25.3	43.0	23.3	37.0	17.3	28.7	536	536.3
300.0	34.3	35.0	38.1	49.0	36.1	45.0	3.9	14.0	-1.9	10.0	23.8	38.0	21.8	35.0	17.3	28.0	536	536.1
400.0	40.1	40.0	36.3	47.0	34.3	43.0	-3.8	7.0	-5.8	3.0	21.3	36.0	19.3	33.0	17.3	27.1	536	535.8
500.0	45.3	42.0	34.8	47.0	32.8	42.0	-10.4	5.0	-12.4	0.0	19.3	34.0	17.3	32.0	17.3	26.0	536	535.6
550.0*	-	43.0	-	46.0	-	42.0	-	3.0	-	-1.0	-	33.00	-	31.0	-	26.0	536	-
625.0*	-	44.9	-	46.0	-	41.0	-	1.1	-	-3.9	-	33.0	-	29.0	-	25.0	535	-
750.0*	-	49.0	-	45.0	-	41.0	-	-4.0	-	-8.0	32.0	-	-	27.0	-	25.0	535	-

*Values for frequencies 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.

Worldwide Headquarters North America

Watertown, CT USA
Phone (1) 860 945 4200 US
Phone (1) 888 425 6165

Regional Headquarters EMEA

Europe/Middle East/Africa
Surrey, England
Phone (44) 0 1932 571771

Regional Headquarters Asia/Pacific

Shanghai, P.R. China
Phone (86) 21 5385 0303

Regional Headquarters Latin America

Bogota, Colombia
Phone (571) 657 1950

