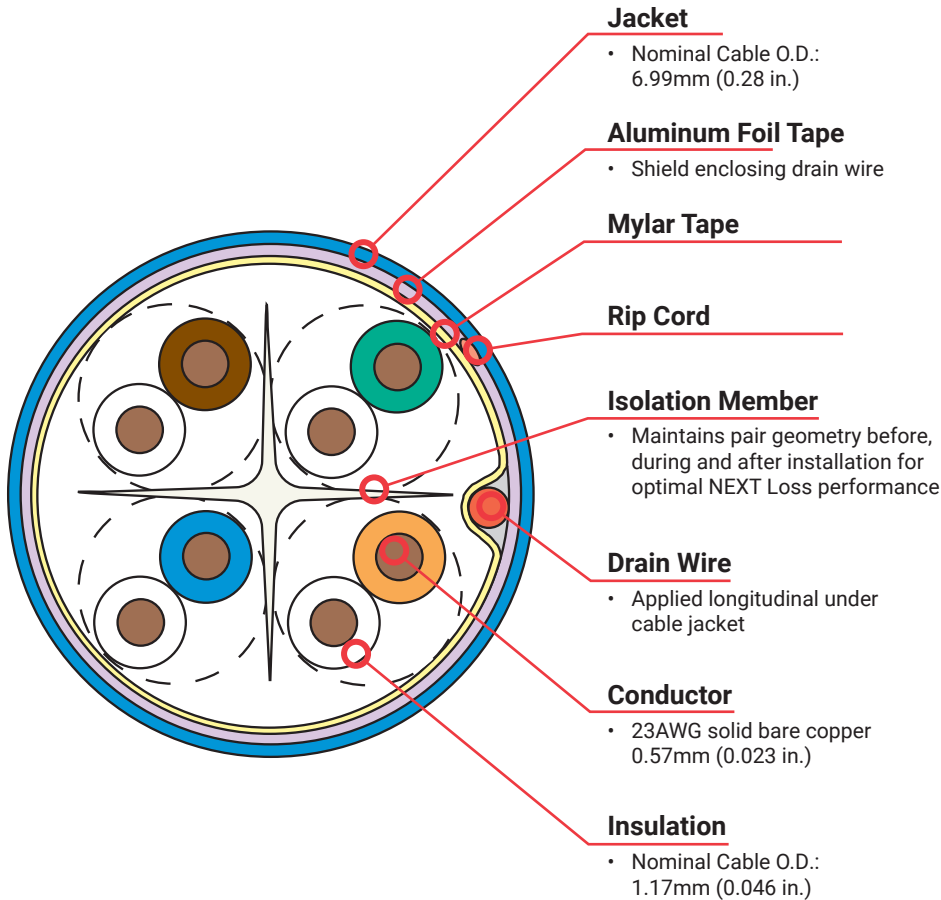


Category 6A F/UTP 4-Pair Cable

Regional Availability - North America

Siemon's Category 6A F/UTP cable provides channel performance exceeding ANSI/TIA-568.2-D 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.



Compliance

- ANSI/TIA-568.2-D
- IEC 61156-5 Ed 2.0
- ISO/IEC 11801-1 Ed 1.0
- UL CMR and CSA FT4
- UL CMP and CSA FT6
- CMP-LP(0.6) 120W

Cable Construction

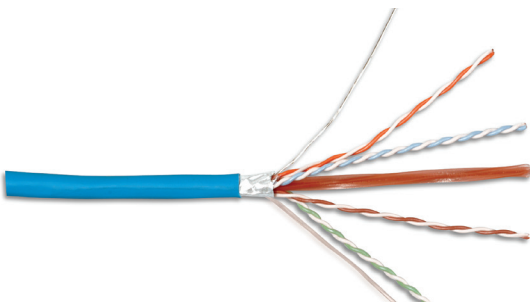
- F/UTP
- 0.57mm (0.023 in.) 23 AWG solid bare copper
- 7.1mm (0.28 in.) nom. jacket diameter
- Central isolation member
- Shield is an aluminum foil tape enclosing a tinned copper drain wire
- Reverse sequential measurement markings on jacket

Applications Support

- 10GBASE-T
- 1000BASE-T
- 100BASE-T
- 10BASE-T
- HDBASE-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)



Siemon's **PowerGUARD** technology with a 75°C operating temperature improves heat dissipation for reduced length derating and bundling requirements in remote powering applications, including PoE and power over HDBaseT (POH).



Product Information

Electrical Specifications

DC Resistance	<8.5Ω/100m
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Character Impedance (ohms)	1 - 100 MHz: ± 15% 100 - 750 MHz: ± 22%
NVP	67%
TCL	30-10 log(f/100) dB
Delay Skew	≤45ns
PoE	Suitable for PoE Type 1,2,3,4 and PoE

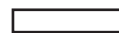
Physical Properties

	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)		PS ACR (dB)		ACR-F (dB)		PSACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
	2.0	1.8	74.3	86.0	72.3	82.3	72.3	84.2	70.3	80.5	67.8	91.0	64.8	85.0	20.0	33.0	570	545
4.0	3.8	3.4	65.3	77.0	63.3	73.3	61.5	73.6	59.5	69.9	55.8	79.0	52.8	73.0	23.0	35.5	552	527
10.0	6.0	5.4	59.3	71.0	57.3	67.3	53.3	65.6	51.3	61.9	47.8	71.0	44.8	65.0	25.0	38.0	545	520
16.0	7.6	6.9	56.2	68.0	54.2	64.2	46.7	61.1	46.7	57.3	43.7	67.0	40.7	61.0	25.0	35.2	543	518
20.0	8.5	7.7	54.8	67.0	52.8	62.8	46.3	59.3	44.3	55.1	41.8	65.0	38.8	59.0	25.0	35.0	542	517
31.25	10.7	9.9	51.9	64.0	49.9	59.9	41.2	54.1	39.2	50.0	37.9	61.0	34.9	55.0	23.6	33.1	540	515
62.5	15.4	14.3	47.4	59.0	45.4	55.4	32.0	44.7	30.0	41.1	31.9	55.0	28.9	49.0	21.5	32.2	539	514
100	19.8	18.1	44.3	56.0	42.3	52.0	24.5	37.9	22.5	33.9	27.8	51.0	24.8	45.0	20.1	31.6	538	513
200	29.0	27.3	39.8	52.0	37.8	47.8	10.5	24.7	8.8	20.5	21.8	45.0	18.8	39.0	18.0	29.8	537	512
250	32.8	31.1	38.3	50.0	36.3	46.0	5.5	18.9	3.5	14.9	19.8	43.0	16.8	37.0	17.3	28.7	536	511
300	36.4	35.0	37.1	49.0	35.1	45.0	0.7	14.0	-1.3	10.0	18.3	38.0	15.3	35.0	16.8	28.0	536	511
400	43.0	40.0	35.3	47.0	33.3	43.0	-7.7	7.0	-9.7	3.0	15.8	36.0	12.8	33.0	15.9	27.1	536	511
500	48.9	42.0	33.8	47.0	31.8	42.0	-15.1	5.0	-17.1	0.0	13.8	34.0	10.8	32.0	15.2	26.0	536	510
550*	51.8	43.0	33.2	46.0	31.2	42.0	-18.6	3.0	-20.6	-1.0	13.0	33.0	10.0	31.0	14.9	26.0	536	510
625*	55.8	44.9	32.4	46.0	30.4	41.0	-23.5	1.1	-25.5	-3.9	11.9	33.0	8.9	29.0	14.5	25.0	535	505
750*	62.3	49.0	31.2	45.0	29.2	41.0	-31.1	-4.0	-33.1	-8.0	10.3	32.0	7.3	27.0	14.0	25.0	535	504

Values for frequencies beyond industry requirements are for information only.

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

Ordering Information

305m (1000 ft.) Reel

Part Number	Description
9A6P4-A5-01-R1A	Plenum (CMP, CSA FT6), Black
9A6P4-A5-02-R1A	Plenum (CMP, CSA FT6), White
9A6P4-A5-03-R1A	Plenum (CMP, CSA FT6), Red
9A6P4-A5-04-R1A	Plenum (CMP, CSA FT6), Gray
9A6P4-A5-05-R1A	Plenum (CMP, CSA FT6), Yellow
9A6P4-A5-06-R1A	Plenum (CMP, CSA FT6), Blue
9A6P4-A5-07-R1A	Plenum (CMP, CSA FT6), Green
9A6P4-A5-08-R1A	Plenum (CMP, CSA FT6), Violet
9A6P4-A5-09-R1A	Plenum (CMP, CSA FT6), Orange
9A6R4-A5-01-R1A	Riser (CMR, CSA FT4), Black
9A6R4-A5-02-R1A	Riser (CMR, CSA FT4), White
9A6R4-A5-03-R1A	Riser (CMR, CSA FT4), Red
9A6R4-A5-04-R1A	Riser (CMR, CSA FT4), Gray
9A6R4-A5-05-R1A	Riser (CMR, CSA FT4), Yellow
9A6R4-A5-06-R1A	Riser (CMR, CSA FT4), Blue
9A6R4-A5-07-R1A	Riser (CMR, CSA FT4), Green
9A6R4-A5-08-R1A	Riser (CMR, CSA FT4), Violet
9A6R4-A5-09-R1A	Riser (CMR, CSA FT4), Orange

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.

North America P: (1) 860 945 4200	Asia Pacific P: (61) 2 8977 7500	Latin America P: (571) 657 1950/51/52	Europe P: (44) 0 1932 571771	China P: (86) 215385 0303	India, Middle East & Africa P: (971) 4 3689743
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Siemon Interconnect Solutions P: (1) 860 945 4213 www.siemon.com/SIS	Mexico P: (521) 556 387 7708/09/10
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