

CATEGORY 6A™ F/UTP CABLE

Siemon's Category 6A F/UTP cable supports channel performance exceeding ANSI/TIA-568-C.2 and ISO/IEC 11801 Class E_A requirements. When combined with our screened 10G 6A series connectivity, the result is a channel capable of supporting 10GBASE-T operation over 100-metre, 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.

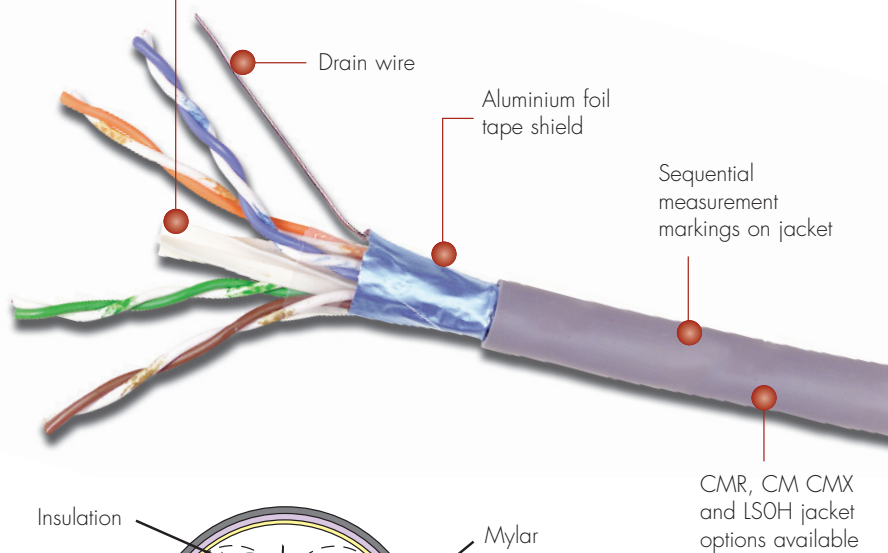


500 MHz

**Meets or Exceeds
10GBASE-T
Performance
Requirements**

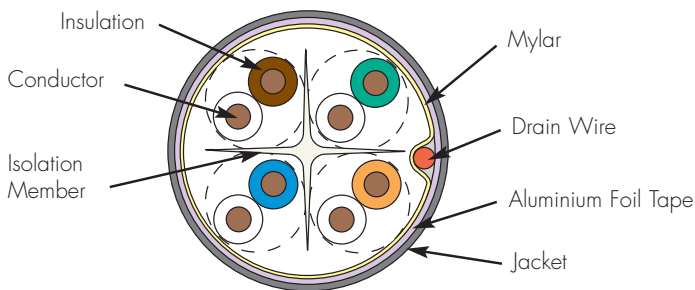
CABLE — INTERNATIONAL

Screened category 6A cable features a centre isolation member to maintain pair geometry before, during, and after installation for ideal NEXT performance



Cable Construction

- F/UTP
- 0.57mm (23 AWG) solid bare copper
- 7.62mm max jacket diameter
- 1.18mm max conductor insulation diameter
- Central isolation member
- Shield is an aluminium foil tape enclosing a 7-strand 0.05mm tinned copper drain wire



Compliance

- ISO/IEC 11801:2002/Amendment 1:2008 (Class EA)
- ISO/IEC 11801:2002/Amendment 2:2010 (Category 6A /Class E_A)
- ANSI/TIA-568-C.2
- IEC 61156-5 ED 2.0
- UL CMX
- UL CM, IEC 60332-1
- UL CMR and CSA FT4
- LSOH: IEC 60332-1, IEC 60754 and IEC 61034

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PRODUCT INFORMATION

CABLE — INTERNATIONAL

ELECTRICAL SPECIFICATIONS

DC Resistance	<8.5 Ω/100m
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1-100 MHz: 100 ± 15% 100-750 MHz: 100 ± 22%
NVP	LSOH—72% CMR—68%
TCL	30-10 log(f/100) dB
Delay Skew	≤45ns

PHYSICAL PROPERTIES

	LSOH	CMX/CM/CMR
Pulling Tension (max)	110N	110N
Bend Radius (min)	50mm	50mm
Installation Temperature	0 to 60°C	0 to 60°C
Storage Temperature	-20 to 75°C	-20 to 75°C
Operating Temperature	-20 to 60°C	-20 to 60°C

TRANSMISSION PERFORMANCE

ANSI/TIA & ISO/IEC

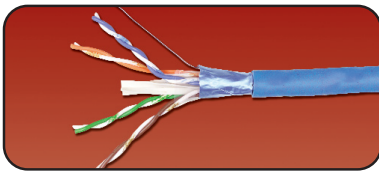
SIEMON TYPICAL

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	4.0	10.0	16.0	20.0	31.25	62.5	100.0	200.0	250.0	300.0	400.0	500.0	550.0*	625.0*	750.0*	1	2
1.0	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	48.7	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
100.0	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
200.0	29.0	27.3	39.8	52.0	37.8	47.8	10.8	24.7	8.8	20.5	21.8	45.0	18.8	39.0	18.0	29.8	537	512
250.0	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
300.0	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
400.0	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
500.0	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
550.0*	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
625.0*	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
750.0*	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

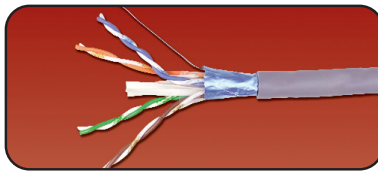
Category 6A 4-pair F/UTP Cable:

- 9A6M4-A5PVC (CM, IEC 60332-1), Gray Jacket, 305m Reel
- 9A6R4-A5PVC (CMR, CSA FT4, Riser), Blue Jacket, 305m Reel
- 9A6L4-A5LSOH (IEC 60332-1), Violet Jacket, 305m Reel

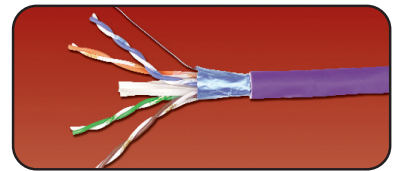
Other cable lengths also available: Add "-5CR" for 500m Reel, "-1KR" for 1000m Reel



9A6R4-A5



9A6M4-A5



9A6L4-A5

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

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