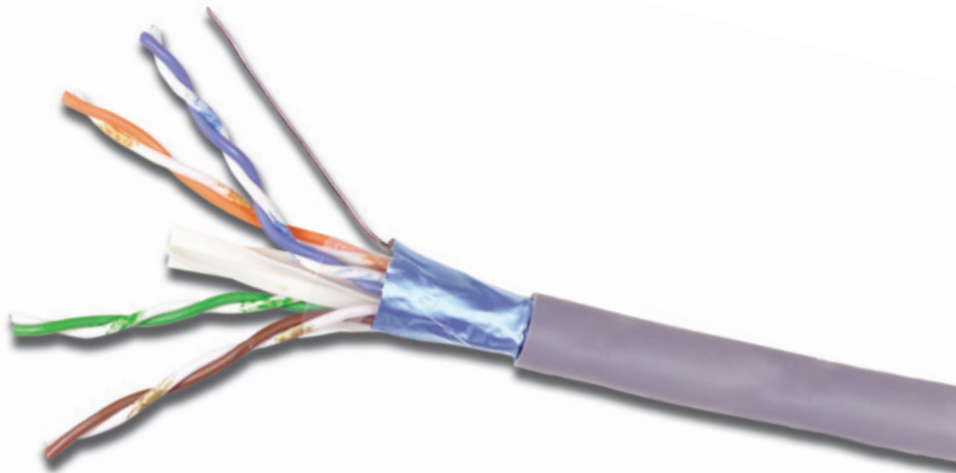


CATEGORY 6A F/UTP CABLE

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 Category 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.



Jacket

- Nominal Cable O.D.:
6.8mm ± 0.6
(0.27in ± 0.02)
- Jacket Material:
CM, LSOH and CMR options available

Mylar Tape

Aluminum Foil Tape

- Shield enclosing drain wire

Isolation Member

- Maintains pair geometry before, during and after installation for optimal NEXT Loss performance

Drain Wire

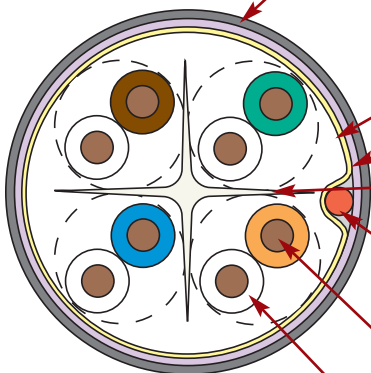
- Applied longitudinally under cable jacket
- 7-Strand 0.05mm tinned copper drain wire

Conductor

- 0.57mm (23 AWG) solid bare copper

Insulation

- Conductor Insulation:
1.18mm max conductor insulation diameter



CONSTRUCTION

- Reverse sequential numbering
- Round jacket
- Center isolation member

PACKAGING

- 305, 500 or 1000 meter reel options available
- Weight
18kg (40lbs) per 305 meter

STANDARDS COMPLIANCE

- ANSI/TIA-568-C.2
- IEC 61156-5 Ed 2.0
- ISO/IEC 11801 Ed 2.2
- UL CMR and CSA FT4
- UL CM, IEC 60332-1
- LSOH: IEC 60332-1, IEC 60754, and IEC 61034

ETHERNET APPLICATIONS SUPPORT

- 10GBASE-T
- 1000BASE-T
- 100BASE-T
- 10BASE-T

Supports all applications designed for augmented category 6 or lower cabling

PRODUCT INFORMATION

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	67%
TCL	30-10 log(f/100) dB
Delay Skew	≤45ns
PoE	Suitable for PoE & PoE +

PHYSICAL PROPERTIES

	CM/CMR/LSOH
Pulling Tension (max)	110N
Bend Radius (min)	6 x O.D 42mm.
Installation Temperature	0 to 60°C
Storage Temperature	-20 to 75°C
Operating Temperature	-20 to 75°C

TRANSMISSION PERFORMANCE

GUARANTEED WORST CASE
 SIEMON TYPICAL

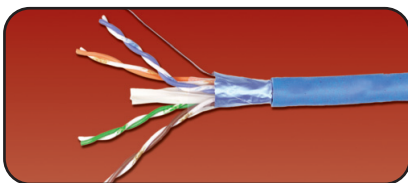
Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical
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	55.4	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	-	33.0	-	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 above 500 MHz are informational only

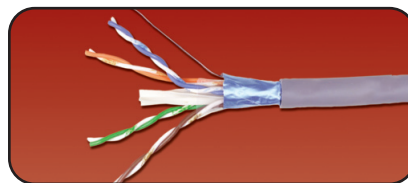
Category 6A 4-pair F/UTP Cable:

- 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

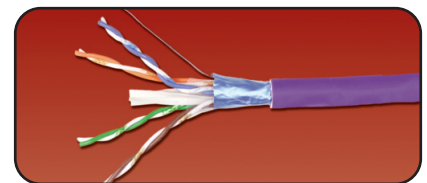
Other cable lengths also available: Add "-5CR" for 500m Reel, "-1KR" for 1000m Reel



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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