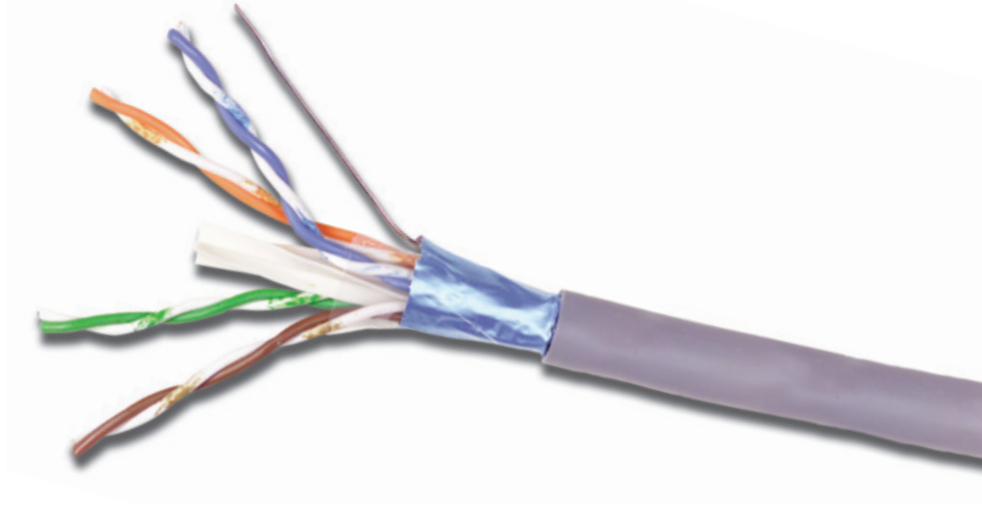


# CATEGORY 6A F/UTP CABLES (IEC 60332-3)

Simon's Category 6A F/UTP cable supports channel performance exceeding ANSI/TIA-568-C.2 and ISO/IEC 11801 Class E<sub>A</sub> 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. This cable has been formulated to meet IEC 60332-3C or IEC 60332-3D which are more demanding flammability specification for bundled cables.



## Jacket

- Nominal Cable O.D.:  
3C = 7.8mm ± 0.3 (0.30in. ± 0.01)  
3D = 7.6mm ± 0.3 (0.30in. ± 0.01)
- Jacket Material:  
LSOH-3C  
LSOH-3D
- F/UTP
- Reverse sequential numbering

## 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
- 0.51mm solid tinned copper drain wire

## Conductor

- 0.57mm (23 AWG) solid bare copper

## Insulation

- Conductor Insulation:  
1.14mm nominal conductor insulation diameter

## PACKAGING

- 305, 500 or 1000 meter reel options available
- Weight  
20kg (44lbs) per 305 meter

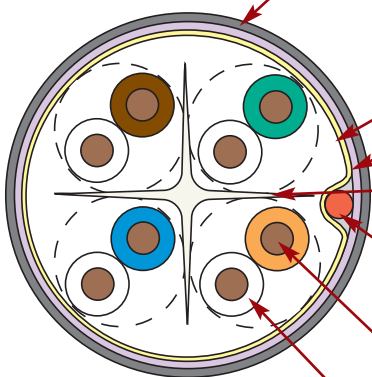
## COMPLIANCE

- ANSI/TIA-568-C.2
- IEC 61156-5 Ed 2.0
- ISO/IEC 11801 Ed 2.2
- LSOH-3C IEC 60332-3-24, IEC 60754, and IEC 61034
- LSOH-3D IEC 60332-3-25, 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	65%
TCL	30-10 log(f/100) dB
Delay Skew	≤45ns
PoE	Suitable for PoE & PoE +

## PHYSICAL PROPERTIES

	LSOH
Pulling Tension (max)	110N
Bend Radius (min)	60mm.
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:

9A6H4-A5 .....LSOH (IEC 60332-3C), Violet Jacket, 305m Reel

9A6J4-A5 .....LSOH (IEC 60332-3D), Violet Jacket, 305m Reel

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

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

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