

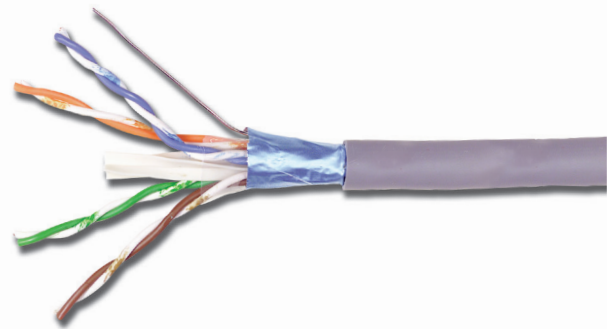
Category 6A F/UTP 4-Pair Cable

Region Availability – India, Middle East, Africa

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



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).



CABLE FEATURES

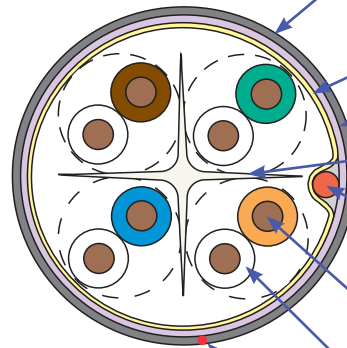
- FUTP
- Nominal jacket OD: 7.3mm (0.287 in.)
- 23 AWG 0.56mm (0.022 in.) solid (non-tinned) copper
- Central isolation member
- Shield is an aluminum foil tape enclosing a tinned copper drain wire
- 75° C temperature rating

STANDARDS COMPLIANCE

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA 568.2-D
- IEC 61156-5 Ed 2.0 (Category 6A)
- LSOH: IEC 60332-1, IEC 60754, IEC 61034, and EN 50575 Class Eca

APPLICATIONS SUPPORT

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



Jacket

- Nominal Cable O.D.: 7.3mm ± 0.3 (0.287 in. ± 0.012)
- Jacket Material: LSOH

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
- Tinned copper drain wire

Conductor

- 0.56mm (23 AWG) solid bare copper

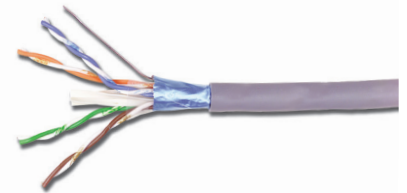
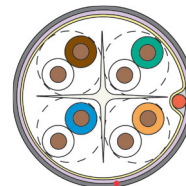
Insulation

- Conductor Insulation: Polyolefin max conductor insulation diameter

Rip Cord

Ordering Information

9A6L4-A5-08-R1H ----- Siemon Category 6A F/UTP LSOH Cable, 23 AWG, Violet, 305M Reel



Product Information

ELECTRICAL SPECIFICATIONS

DC Resistance	≤9.38/100m
DC Resistance Unbalance	≤2% • between pairs: ≤5%
Mutual Capacitance	≤5.6 nF/100m
Capacitance Unbalance	<130 pF/100m
NVP	69%
TCL	30-10 log(f/100) dB
Delay Skew	≤45ns
PoE	Suitable for PoE Type 1,2,3,4 and PoE

PHYSICAL PROPERTIES

LSOH	
Pulling Tension (max)	110N (25 lbf)
Bend Radius (min)	58.4mm (2.3 in.)
Installation Temperature	0 to 50°C (+32 to 122°F)
Storage Temperature	-20 to 75°C (-4 to 167°F)
Operating Temperature	-20 to 75°C (-4 to 167°F)

TRANSMISSION PERFORMANCE

Siemon Guaranteed Worst Case Siemon Typical

FREQUENCY (MHz)

TEST PARAMETER	1.0	4.0	10.0	16.0	20.0	31.25	62.5	100.0	160.0	200.0	250.0	300.0	400.0	500.0*	550.0*	650.0*
INSERTION LOSS (dB)	2.1	3.7	5.9	7.4	8.3	10.5	15.0	19.1	24.5	27.6	31.0	34.3	40.0	45.3	-	-
	2.0	3.6	5.7	7.2	8.1	10.2	14.5	18.5	23.5	26.3	29.5	32.5	37.7	42.4	44.5	49.1
NEXT (dB)	75.3	66.5	60.4	57.4	55.9	52.9	48.4	45.3	42.3	40.8	39.3	38.1	36.3	34.8	-	-
	91.8	82.3	74.8	63.9	71.8	66.6	63.0	57.9	54.9	55.5	51.2	49.7	52.6	50.2	40.8	32.4
PS NEXT (dB)	73.3	64.5	58.4	55.4	53.9	50.9	46.4	43.3	40.3	38.8	37.3	36.1	34.3	32.8	-	-
	89.6	82.4	73.5	67.2	69.7	66.2	60.2	58.8	53.2	52.5	48.9	52.4	52.5	52.8	40.4	37.5
ACR-F (dB)	73.3	61.6	53.4	49.4	47.4	43.5	37.4	33.3	29.2	27.3	25.4	23.8	21.3	19.3	-	-
	95.2	83.8	72.8	69.9	68.9	61.5	59.9	54.0	46.5	45.2	53.0	44.2	44.0	41.5	39.5	30.4
PS ACR-F (dB)	71.3	59.6	51.4	47.4	45.4	41.5	35.4	31.3	27.2	25.3	23.4	21.8	19.3	17.3	-	-
	93.1	81.5	72.4	68.7	67.3	60.7	59.5	52.6	45.6	44.3	51.5	45.1	43.3	40.4	35.9	28.2
RETURN LOSS (dB)	20.0	22.9	25.0	25.0	25.0	23.7	21.5	20.1	18.7	18.0	17.3	17.3	17.3	17.3	-	-
	31.6	36.8	33.3	34.5	33.8	32.8	30.9	25.2	28.1	29.6	26.2	28.5	28.9	29.9	24.6	25.0
ACR-N (dB)	73.3	61.6	53.4	49.4	47.4	43.5	37.4	33.3	29.2	27.3	25.4	23.8	21.3	19.3	-	-
	96.7	84.9	73.1	70.1	69.4	61.3	60.0	54.0	46.2	44.8	54.6	45.3	44.5	42.0	39.1	28.9
PS ACR-N (dB)	71.3	59.6	51.4	47.4	45.4	41.5	35.4	31.3	27.2	25.3	23.4	21.8	19.3	17.3	-	-
	97.9	86.2	77.2	75.9	73.5	70.1	69.8	58.8	55.5	59.3	54.7	49.7	47.6	44.9	39.9	39.6
PROPAGATION DELAY (ns)	570	552	545	543	542	540	539	538	537	537	536	536	536	536	-	-
	549	533	527	525	524	522	520	520	519	519	518	518	518	518	518	518

All performance based on 100 meters (328 ft.). *Values for frequencies beyond industry requirements are for information only.

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

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