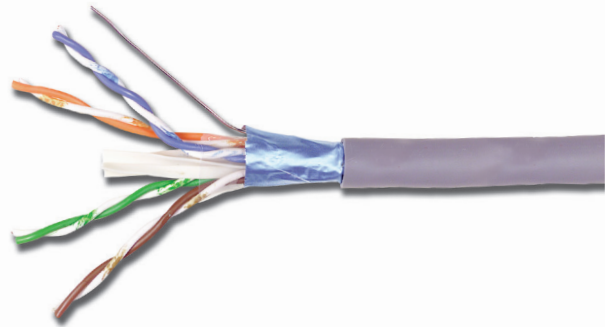


Category 6A F/UTP 4-Pair Cable – International

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 Cable O.D.: 6.99 mm (0.275 in.)
- 23 AWG 0.57mm (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)
- NBR 14565, 14703 and 14705
- UL CMR and CSA FT4
- UL CM, IEC 60332-1, Class E_{ca}
- LSOH: IEC 60332-1, IEC 60332-3-22, IEC 60754, IEC 61034, and EN 50575 Class D_{ca}S_{d,a}

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)

Ordering Information

9A6(X)4-A5 ----- 305m (1000 ft.) Reel

Jacket Material

M = PVC (CM, IEC 60332-1), Grey Jacket, Class E_{ca}

R = Riser (CMR, CSA FT4), Blue Jacket

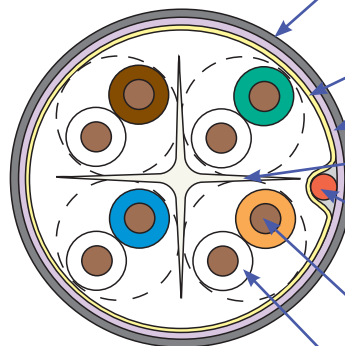
L = LSOH (IEC 60332-1, IEC 60332-3-22), Violet Jacket, Class E_{ca}, D_{ca}

To request different colors from the standard shown above, add the following color codes to the part number:

01=black, 02=white, 03=red, 04=grey, 05=yellow, 06=blue, 07=green, 08=violet, 09=orange. Example: 9A6L4-A5-06 LSOH, blue jacket.

To request additional put-ups from the standard, add the following to the part number: 5CR = 500m reel, 1KR = 1000m reel.

Example: 9A6L4-A5-06-5CR LSOH, blue jacket, 500 meter reel. Minimum order quantity and extended lead time may apply to non-standard items.



Jacket

- Nominal Cable O.D.: 6.99 mm (0.275 in.)
- 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

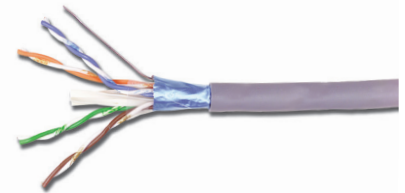
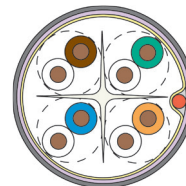
- Applied longitudinally under cable jacket
- Solid tinned copper drain wire (0.50 mm)

Conductor

- 0.57mm (23 AWG) solid bare copper

Insulation

- Conductor Insulation: HDPE 1.18mm (0.046 in.) max conductor insulation diameter



Product Information

ELECTRICAL SPECIFICATIONS

DC Resistance	<8.5Ω/100m
DC Resistance Unbalance	≤4% (@ 20°C)
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<160 pF/100m
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

	LSOH	CM/CMR
Pulling Tension (max)	110N (25 lbf)	110N (25 lbf)
Bend Radius (min)	27mm (1.1 in.)	27mm (1.1 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/100)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
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	545	545
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	543	543
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	542	542
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	540	540.4
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	539	538.6
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	538	537.6
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	537	536.5
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	536	536.3
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	536.1
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	535.8
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	535.6
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	510
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 for frequencies above industry requirements are for information only.

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

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

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