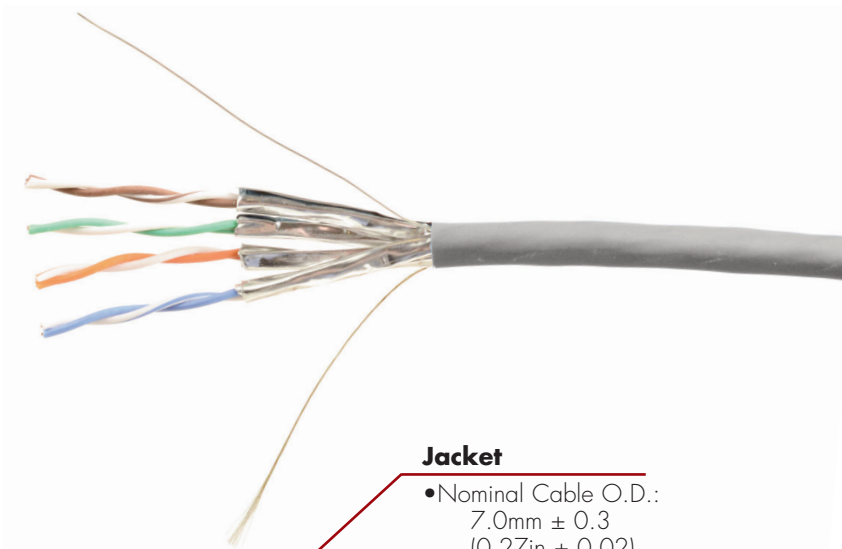




CATEGORY 6A U/FTP CABLE

Siemon's Category 6A U/FTP cable supports channel performance exceeding ANSI/TIA-568-C.2 and ISO/IEC 11801 Class E_A requirements. When combined with our Z-MAX 6A Shielded 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 U/FTP 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.: 7.0mm ± 0.3 (0.27in ± 0.02)
- Jacket Material: CM and LSOH

Rip Cord

Individual Pair Shielding

- Aluminum foil tape, 100% Coverage

Drain Wire

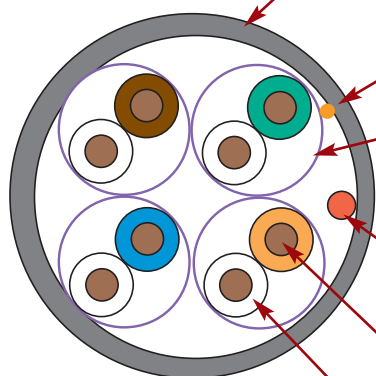
- Applied longitudinally under cable jacket
- Solid 0.4mm tinned copper drain wire

Conductor

- 0.56 ± 0.02mm (23 AWG) solid bare copper

Insulation

- Conductor Insulation: Foam PE 1.27 ± 0.05mm



CONSTRUCTION

- Reverse sequential numbering
- Round jacket

PACKAGING

- 305, 500 or 1000 meter reel options available

STANDARDS COMPLIANCE

- ANSI/TIA-568-C.2
- IEC 61156-5 Ed 2.0
- ISO/IEC 11801 Ed 2.2
- 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	<9.5 Ω/100m
DC Resistance Unbalance	2%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<160 pF/100m
Characteristic Impedance (ohms)	1-100 MHz: 100 ± 15% 100-750 MHz: 100 ± 22%
NVP	72%
TCL	30-10 log(f/100) dB
Delay Skew	≤45ns
PoE	Suitable for PoE & PoE +

PHYSICAL PROPERTIES

	CM/LSOH
Pulling Tension (max)	80N (18 lbs -Force)
Bend Radius (min)	56mm
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)		PSNEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PSACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical
1	2.1	1.9	-75.3	-96.9	-73.3	-95.9	-73.2	-95.0	-71.2	-94.0	-73.3	-97.7	-71.3	-96.8	-20.0	-22.8	570	453
4	3.8	3.5	-66.3	-96.1	-64.3	-93.3	-62.5	-92.5	-60.5	-89.8	-61.3	-97.8	-59.3	-95.3	-23.0	-25.6	552	445
10	5.9	5.5	-60.3	-86.4	-58.3	-84.1	-54.4	-80.9	-52.4	-78.6	-53.3	-87.8	-51.3	-86.2	-25.0	-31.4	545	440
16	7.5	7.0	-57.2	-83.0	-55.2	-80.7	-49.8	-76.0	-47.8	-73.7	-49.2	-79.2	-47.2	-77.2	-25.0	-31.4	543	439
20	8.4	7.9	-55.8	-81.6	-53.8	-79.1	-47.4	-73.8	-45.4	-71.2	-47.3	-77.8	-45.3	-77.0	-25.0	-33.0	542	438
31.25	10.5	10.0	-52.9	-80.1	-50.9	-78.6	-42.4	-70.1	-40.4	-68.6	-43.4	-85.0	-41.4	-82.0	-23.6	-34.2	540	438
62.5	15.0	14.2	-48.4	-83.7	-46.4	-81.3	-33.4	-69.8	-31.4	-67.1	-37.4	-80.1	-35.4	-79.2	-21.5	-32.0	539	437
100	19.1	18.0	-45.3	-80.2	-43.3	-77.6	-26.2	-62.3	-24.2	-59.7	-33.3	-79.3	-31.3	-77.0	-20.1	-37.3	538	436
200	27.6	25.5	-40.8	-74.2	-38.8	-71.4	-13.2	-48.7	-11.2	-45.9	-27.3	-71.0	-25.3	-68.9	-18.0	-30.3	537	436
250	31.1	28.6	-39.3	-73.8	-37.3	-70.9	-8.3	-45.5	-6.3	-42.3	-25.3	-71.2	-23.3	-70.4	-17.3	-27.1	536	436
300	34.3	31.3	-38.1	-70.9	-36.1	-68.8	-3.9	-39.5	-1.9	-37.5	-23.8	-66.1	-21.8	-65.2	-17.3	-25.5	536	435
400	40.1	36.5	-36.3	-69.4	-34.3	-66.5	3.8	-33.3	5.8	-30.7	-21.3	-60.8	-19.3	-56.9	-17.3	-20.8	536	435
500	45.3	40.8	-34.8	-65.7	-32.8	-63.5	10.4	-25.5	12.4	-22.7	-19.3	-58.3	-17.3	-56.0	-17.3	-22.1	536	435
550*	-	43.1	-	-60.0	-	-57.1	-	-17.5	-	-14.0	-	-49.7	-	-48.3	-	-22.8	-	428
625*	-	45.7	-	-56.8	-	-54.5	-	-11.9	-	-9.0	-	-46.8	-	-45.6	-	-21.0	-	428
750*	-	50.8	-	-58.6	-	-57.5	-	-7.8	-	-6.7	-	-39.5	-	-37.5	-	-18.8	-	425

* Values for frequencies beyond industry requirements are for information only
All performance based on 100-meters

Category 6A 4-pair U/FTP Cable:

9D6M4-A5.....PVC (CM, IEC 60332-1), Gray Jacket, 305m Reel

9D6L4-A5LSOH (IEC 60332-1), 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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