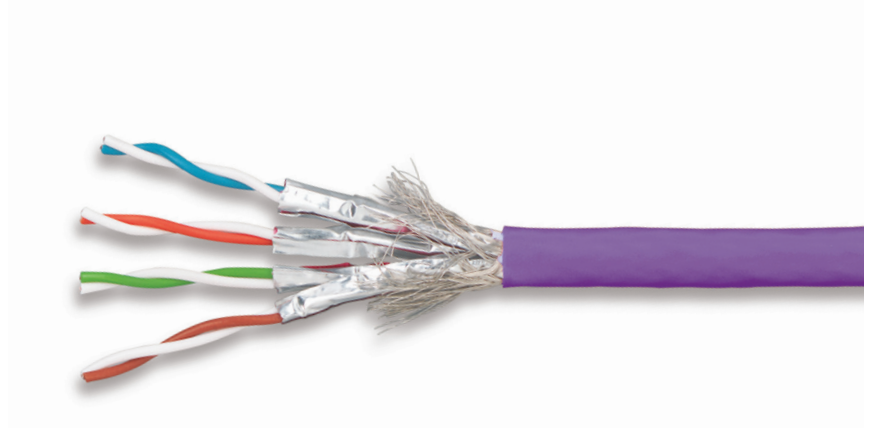


# Category 6A S/FTP Cable - International

Siemon's Category 6A S/FTP cable perfectly complements the performance of our Z-MAX® 6A shielded outlets. Siemon cable exceeds all standards requirements for category 6A transmission performance up to 500 MHz. A fully shielded cable with individual foils around each pair coupled with an outer braid provides perfect immunity from outside interferences. In PoE remote power applications, this cable can be installed in environments up to 75°C and will not experience degradation due to heat rise inside the cable bundle. Siemon cable is the ideal way to ensure optimum channel performance and is essential for a complete end-to-end warranted solution. In addition, this cable has been formulated to meet the stringent CPR Class rating of C<sub>ca</sub>, s<sub>1a</sub>, d<sub>1</sub>, a<sub>1</sub>.



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

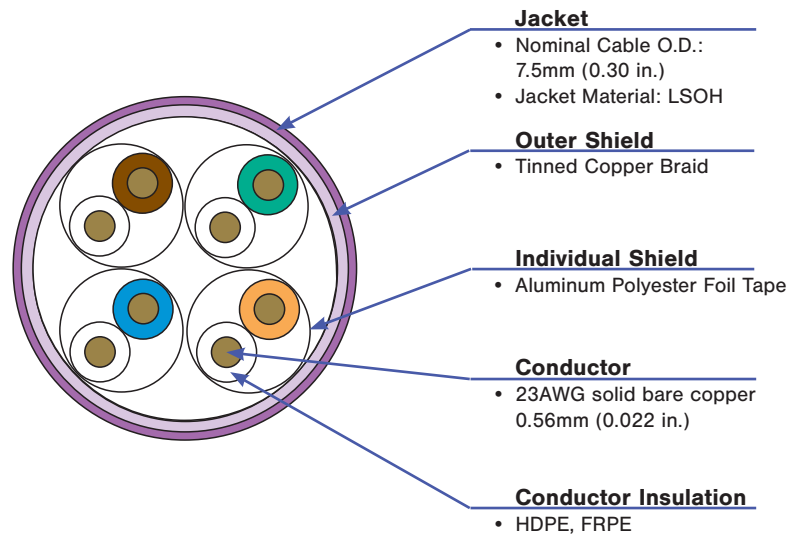
- S/FTP
- Nominal jacket OD: 7.5mm (0.30 in.)
- 23 AWG 0.56mm (0.022 in.) solid bare copper
- Pairs individually shielded
- Overall tinned-copper braid
- 75° C temperature rating

## STANDARDS COMPLIANCE

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568.2-D
- IEC 61156-5
- IEC 60332-3-25
- EN 50288; EN 55022; EN 50173; EN 55024
- LSOH: IEC 60332-1, IEC 60332-3-22, IEC 60754 (parts 1 and 2), and IEC 61034
- EN 50575 Class C<sub>ca</sub>, s<sub>1a</sub>, d<sub>1</sub>, a<sub>1</sub>

## 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)



# Product Information

## ELECTRICAL SPECIFICATIONS (Nominal)

DC Resistance	<7.8 Ω/100m
DC Resistance Unbalance	2%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<160 pF/100m
NVP	74%
TCL	40-10 log(f) dB
Delay Skew	≤45ns/100m

## PHYSICAL PROPERTIES

LSOH	
Pulling Tension (max)	80N (18 lbf)
Bend Radius (min)	60mm (2.36 in.)
Installation Temperature	0 to 75°C (+32 to 167°F)
Storage Temperature	-20 to 75°C (-4 to 167°F)
Operating Temperature	-20 to 75°C (-4 to 167°F)

## TRANSMISSION PERFORMANCE

GUARANTEED WORST CASE    
  SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		ACR-N (dB)		PS ACR-N (dB)		Propagation Delay (ns)	
	2.1	1.7	75.3	99.7	73.3	98.2	73.3	101.6	71.3	99.5	20.0	24.3	73.2	98.0	71.2	96.5	570	448
4.0	3.8	3.2	66.3	102.1	64.3	100.0	61.3	106.8	59.3	104.5	23.0	26.5	62.5	98.9	60.5	96.9	552	444
10.0	5.9	5.0	60.3	98.3	58.3	96.4	53.3	96.5	51.3	94.8	25.0	31.3	54.4	93.4	52.4	91.4	545	440
16.0	7.5	6.3	57.2	97.0	55.2	94.1	49.2	92.7	47.2	90.7	25.0	30.1	49.8	90.7	47.8	87.8	543	439
20.0	8.4	7.1	55.8	95.9	53.8	92.2	47.3	92.0	45.3	91.1	25.0	31.3	47.4	88.9	45.4	85.1	542	438
31.25	10.5	8.9	52.9	91.9	50.9	88.8	43.4	86.6	41.4	84.9	23.7	31.2	42.4	83.0	40.4	79.9	540	437
62.5	15.0	12.8	48.4	86.0	46.4	83.0	37.4	86.9	35.4	84.6	21.5	29.1	33.4	73.3	31.4	70.5	539	436
100.0	19.1	16.2	45.3	80.6	43.3	78.0	33.3	75.9	31.3	74.0	20.1	30.9	26.2	64.9	24.2	62.0	538	436
160.0	24.5	20.6	42.2	76.3	40.2	73.3	29.2	75.4	27.2	73.9	18.7	28.3	17.7	56.1	15.7	52.7	537	436
200.0	27.6	23.0	40.8	73.3	38.8	71.7	27.3	73.6	25.3	71.0	18.0	30.8	13.2	50.2	11.2	48.7	537	436
250.0	31.1	25.8	39.3	75.3	37.3	72.3	25.3	70.0	23.3	66.1	17.3	26.9	8.3	50.1	6.3	46.9	536	435
300.0	34.3	28.4	38.1	75.7	36.1	73.6	23.8	63.8	21.8	63.6	17.3	27.2	3.9	47.2	1.9	45.5	536	435
400.0	40.1	33.1	36.3	66.9	34.3	65.0	21.3	62.7	19.3	60.3	17.3	29.0	-3.8	33.8	-5.8	31.9	536	435
500.0	45.3	37.2	34.8	69.1	32.8	67.3	19.3	62.1	17.3	59.6	17.3	24.6	-10.4	31.9	-12.4	30.1	536	435
550.0*	-	39.2	-	56.1	-	55.0	-	52.2	-	50.9	-	25.0	-	16.9	-	15.8	-	435
625.0*	-	41.9	-	61.4	-	59.6	-	53.9	-	52.0	-	24.0	-	19.7	-	18.8	-	435
750.0*	-	46.8	-	55.2	-	53.0	-	53.8	-	51.0	-	16.9	-	8.7	-	6.4	-	435

\*Values above 500 MHz are for information only.

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

## Ordering Information

Part Number	Description
9T6C14-A5-08R1A	LSOH (IEC 60332-1), violet jacket, C <sub>ca</sub> , S <sub>1a</sub> , d <sub>1</sub> , a <sub>1</sub> 305m reel (1000 ft.)



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

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