

# Category 6A F/FTP Cable - LSOH - International

Siemon's category 6A / Class E<sub>A</sub> 4-pair F/FTP cable supports channel performance exceeding ANSI/TIA and ISO/IEC category 6A requirements. This cable uses a 5-foil screened design consisting of 4 individual foils wrapped pairs plus an overall foil shield. When combined with our shielded Z-MAX<sup>®</sup> 6A connectivity, the end result is a channel capable of supporting 10GBASE-T operation over 100-meter, 4-connector topologies. In addition, the fully shielded construction ensures virtually zero alien crosstalk.

## COMPLIANCE

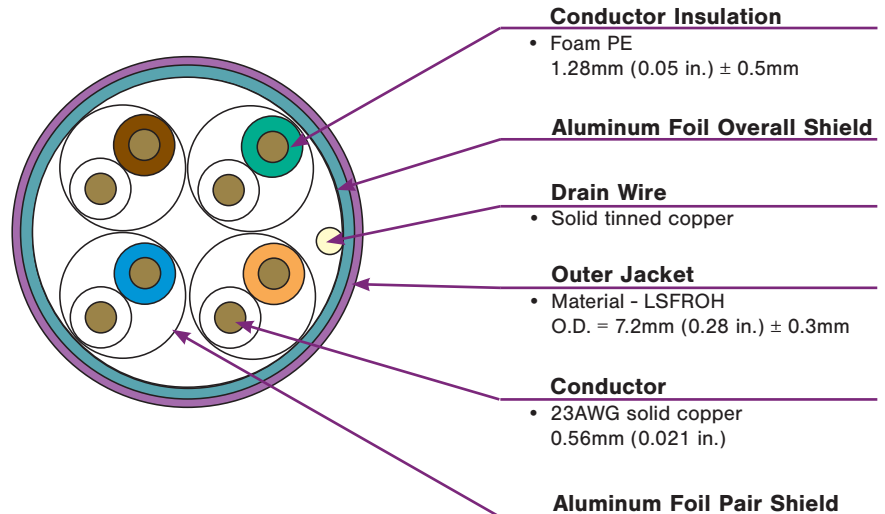
- ISO/IEC 11801-1 Ed 1.0 (Class E<sub>A</sub>)
- ANSI/TIA-568.2-E (Category 6A)
- IEC 61156-5 Ed 2.0 (Category 6A)
- IEC 60332-1, IEC 60754-2, IEC 61034
- EN 50399 Class D s<sub>2</sub>d<sub>2</sub>a<sub>1</sub>
- IEEE 802.3af (Type 1 PoE)
- IEEE 802.3at (Type 2 PoE)
- IEEE 802.3bt (Type 3 PoE)
- IEEE 802.3bt (Type 4 PoE)
- Power over HDBaseT (PoH)

## CABLE CONSTRUCTION

- Conductor Insulation: Foam PE
- Material: LSOH
- Drain Wire: (Solid Tinned Copper)
- Aluminium Foil Overall Shield
- Conductor: 23 AWG (0.56mm) Solid Copper
- Aluminium Foil Pair Shield



Data | Power | Reach | Delivered



# Product Information

## ELECTRICAL SPECIFICATIONS

DC Resistance	<7.32 Ω/100m
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<160pF/100m
NVP	74%
TCL	40-10 log (f)dB
Coupling Attenuation	≥55 dB
Delay Skew	<20ns/100m max.

## PHYSICAL PROPERTIES

LSOH	
Pulling Tension (max)	110N (25 lbf)
Bend Radius (min)	50mm (2.0 in.)
Installation Temperature	0 to 50°C (+32 to 122°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 (dB)		PSACR (dB)		ACR-F (dB)		PSACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0*	2.1	1.8	75.3	93.5	73.3	92.7	73.2	93.1	71.2	90.9	73.3	97.1	71.3	93.7	20.0	23.9	570.0	448
4.0	3.8	3.6	66.3	98.3	64.3	95.9	62.5	94.7	60.5	92.4	61.3	96.4	59.3	93.9	23.0	27.3	552.0	442
10.0	5.9	5.5	60.3	87.5	58.3	87.2	54.4	82.0	52.4	81.6	53.3	86.4	51.3	85.7	25.0	32.7	545.4	439
16.0	7.5	7.1	57.2	83.4	55.2	82.9	49.8	76.3	47.8	75.8	49.2	81.2	47.2	81.1	25.0	31.2	543.0	438
20.0	8.4	8.0	55.8	77.4	53.8	76.7	47.4	69.4	45.4	68.7	47.3	75.0	45.3	74.4	25.0	32.4	542.0	437
31.25	10.5	10.1	52.9	81.1	50.9	80.4	42.4	71.0	40.4	70.3	43.4	73.5	41.4	73.1	23.6	30.0	540.4	436
62.5	15.0	14.3	48.4	87.1	46.4	84.1	33.4	72.7	31.4	69.8	37.4	74.2	35.4	73.1	21.5	31.8	538.6	435
100.0	19.1	18.2	45.3	80.6	43.3	79.4	26.2	62.3	24.2	61.1	33.3	68.3	31.3	66.8	20.1	31.3	537.6	435
200.0	27.6	25.8	40.8	74.4	38.8	71.2	13.2	48.5	11.2	45.4	27.3	63.9	25.3	62.4	18.0	31.3	536.5	434
250.0	31.1	28.9	39.3	74.4	37.3	7.8	8.3	45.9	6.3	42.7	25.3	61.0	23.3	59.5	17.3	29.5	536.3	434
300.0	34.3	31.9	38.1	72.5	36.1	69.8	3.9	41.9	-1.9	37.8	23.8	62.0	21.8	60.3	17.3	26.2	536.1	434
400.0	40.1	37.2	36.3	68.9	34.3	65.7	-3.8	31.7	-5.8	28.4	21.3	54.6	19.3	52.3	17.3	26.2	535.8	434
500.0	45.3	41.6	34.8	65.9	32.8	64.0	-10.4	23.9	-12.4	22.1	19.3	55.9	17.3	53.8	17.3	28.0	535.6	434
550.0*	-	44.0	-	58.2	-	54.9	-	14.0	-	10.4	-	41.5	-	40.4	-	20.3	-	434
625.0*	-	46.2	-	57.6	-	56.5	-	11.2	-	9.3	-	41.5	-	39.8	-	22.6	-	434
750.0*	-	51.9	-	58.6	-	56.0	-	6.6	-	4.2	-	42.6	-	40.4	-	19.2	-	434

\*Values for frequencies beyond 500 MHz are for information only.

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

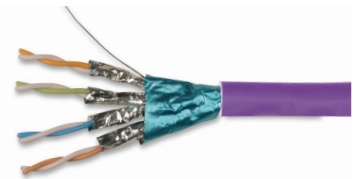
## Ordering Information

### Part Number Description

9N6L4-A5-08-R1A ...Category 6A F/FTP cable, LSOH, violet jacket, 305m (1000 ft.)

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 9N6L4-A5-06-R1A 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: 9N6L4-A5-06-5CR LSOH, blue jacket, 500 meter reel. Minimum order quantity an extended lead time may apply to non-standard items.



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