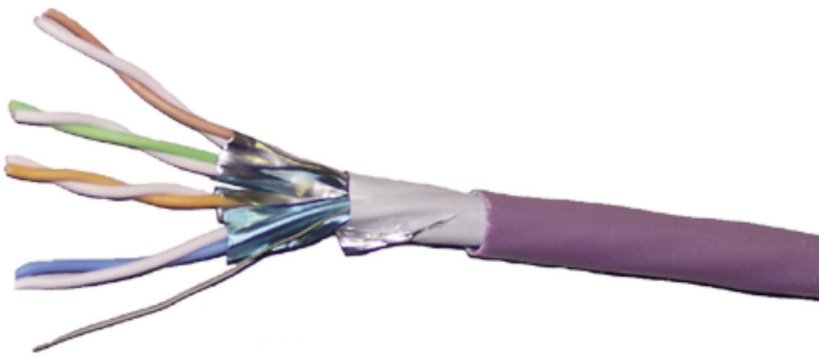


# CATEGORY 6A F/FTP CABLE - LSOH

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 an advanced 3-foil screened design consisting of a 2-pair foil wrap plus an overall plastic laminated foil. When combined with our shielded Z-MAX™ 6A connectivity, the end result is a channel capable of supporting 10GBASE-T operation over 100-meter, 4-connector topologies. In addition, the screened construction ensures virtually zero alien crosstalk.

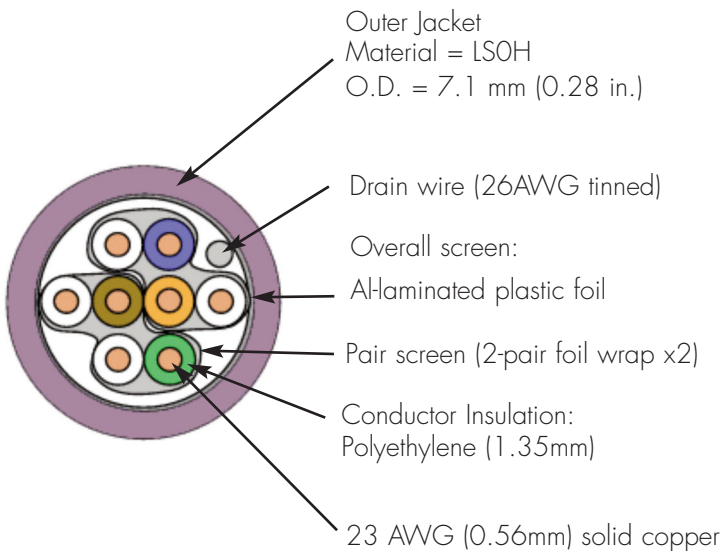


CABLE — INTERNATIONAL



## HIGHLIGHTS

- 3-foil shield (2-pair foil wrap plus overall laminated foil)
- Category 6A Performance tested beyond 500 MHz
- Supports all applications designed to operate over standards compliant Class E<sub>A</sub> / Category 6A cabling systems including VoIP, IP video and future 10 gigabit applications.



## Compliance

- ANSI/TIA-568-C.2 Category 6A
- ISO/IEC 11801 Class E<sub>A</sub>
- IEC 61156-5
- EN 50173-1; EN 50288-5-1
- EN 50290-2-27
- IEEE 802.5 16 MB; ISDN; FDDI; ATM
- IEEE 802.3 10 BASE-T, 100 BASE-T, 1000 BASE-T; 10G BASE-T
- IEC 60332-1; IEC 60754-2; IEC 61034

# PRODUCT INFORMATION

## ELECTRICAL SPECIFICATIONS

DC Resistance	<176 Ω/100m
DC Resistance Unbalance	<2%
Mutual Capacitance	43 nF/km (nom.)
Capacitance Unbalance	<1500 pF/km
Characteristic Impedance, Function Fitted (ohms)	100 ±5% @ 100 MHz
NVP	76%
TCL	40-10 log (f) dB
Coupling Attenuation	≥55 dB
Delay Skew	≤12ns/100m

## PHYSICAL PROPERTIES

	LSOH
Pulling Tension (max)	100N (23 lbf)
Bend Radius (min)	35mm (1.38 in)
Installation Temperature	0 to 50°C (32 to 122°F)
Operating Temperature	-20 to 60°C (-4 to 140°F)

## TRANSMISSION PERFORMANCE

ISO/IEC

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)	
1	2.1	1.9	75.3	106.3	72.3	100.2	73.2	104.4	70.2	98.3	68.0	105.4	65.0	99.9	20.0	30.3	570	443
4	3.8	3.6	66.3	108.5	63.3	101.4	62.5	104.9	59.5	97.8	56.0	102.6	53.0	94.7	23.0	26.9	552	439
10	5.9	5.7	60.3	100.3	57.3	93.6	54.4	94.6	51.4	88.0	48.0	98.1	45.0	89.0	25.0	34.8	545	435
16	7.5	7.1	57.2	97.9	54.2	90.5	49.8	90.8	46.8	83.4	43.9	93.7	40.9	85.7	25.0	35.3	543	434
20	8.4	8.0	55.8	94.6	52.8	88.0	47.4	86.7	44.4	80.0	42.0	92.6	39.0	84.6	25.0	34.3	542	434
31.25	10.5	10.1	52.9	91.2	49.9	84.4	42.4	81.2	39.4	74.3	38.1	88.6	35.1	81.5	23.6	37.6	540	433
62.5	15.0	14.4	48.4	86.2	45.4	77.8	33.4	71.8	30.4	63.3	32.1	83.2	29.1	77.2	21.5	38.7	539	432
100	19.1	18.3	45.3	82.9	42.3	74.1	26.2	64.7	23.2	55.8	28.0	80.5	25.0	75.0	20.1	41.2	538	431
200	27.6	26.0	40.8	74.6	37.8	68.1	13.2	48.5	10.2	42.1	22.0	71.2	19.0	64.5	18.0	28.2	537	431
250	31.1	29.2	39.3	75.1	36.3	67.7	8.3	45.9	5.3	38.6	20.0	70.4	17.0	62.0	17.3	37.4	536	430
300	34.3	32.1	38.1	71.8	35.1	65.4	3.9	39.7	0.9	33.3	18.5	69.3	15.5	62.9	17.3	34.0	536	430
400	40.1	37.3	36.3	69.3	33.3	62.5	-3.8	32.0	-6.8	25.2	16.0	59.9	13.0	54.0	17.3	27.5	536	430
500	45.3	41.9	34.8	67.1	31.8	60.8	-10.4	25.2	-13.4	18.9	14.0	61.0	11.0	54.0	17.3	25.3	536	430
550*	47.7	44.3	34.2	66.7	31.2	60.0	-13.5	22.4	-16.5	15.7	13.2	62.1	10.2	55.9	17.3	27.6	536	430
625*	51.2	47.7	33.4	61.1	30.4	53.0	-17.8	13.4	-20.8	5.3	12.1	52.8	9.1	45.5	17.3	30.2	535	429
750*	56.7	52.6	32.2	62.5	29.2	56.3	-24.5	9.9	-27.5	3.7	10.5	50.2	7.5	44.0	17.3	25.9	535	430

\*Values for frequencies beyond 500 MHz are for information only. All performance based on 100-meters.

### Category 6A Cable, Solid 23 AWG F/FTP:

9N6L4-A5 (XX)-R2N.....LSOH (IEC 60332-1), 500 meter, plastic reel

Use (XX) to specify jacket color: 02 = white, 08 = violet

For additional cable put-up options please contact Siemon.

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