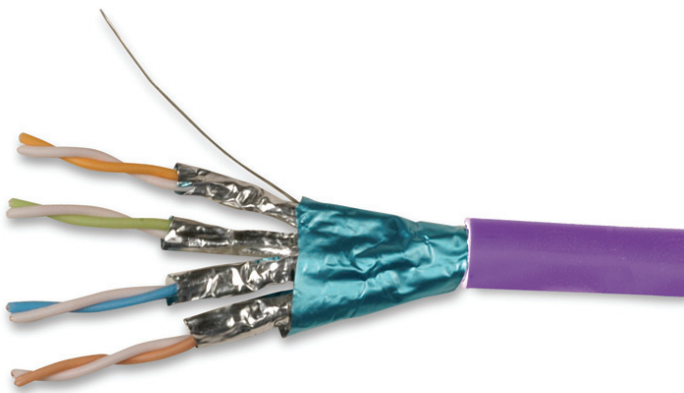


CATEGORY 6A F/FTP CABLE - LSFROH (INTERNATIONAL)

Siemon's category 6A / Class E_A 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® 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. This cable has been formulated to meet IEC 60332-3-25 which is a more demanding flammability specification for bundled cables.

Z-MAX 6A NETWORK CABLING SOLUTIONS

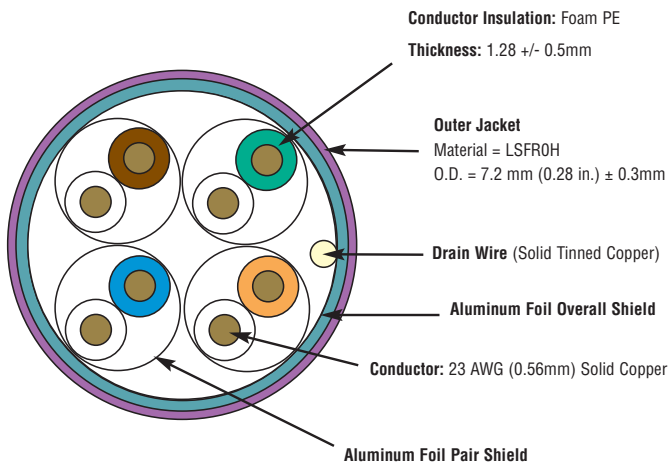


COMPLIANCE

- ISO/IEC 11801 Ed 2.2 (Class E_A)
- ANSI/TIA-568-C.2 (Category 6A)
- IEC 61156-5 Ed 2.0 (Category 6A)
- IEC 60332-3-25, IEC 60754-2, IEC 61034
- EN 50399 Class C_{ca}S_{1a}d_{2a1}*

CABLE CONSTRUCTION

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



ELECTRICAL SPECIFICATIONS

DC Resistance	73.2 Ω/Km max. @20°C
DC Resistance Unbalance	2%
Mutual Capacitance	56 nF/km (nom.) @ 1KHz
Capacitance Unbalance	<1600pF/km
Characteristic Impedance Function Fitted (ohms)	100 ± 15% @ 100 MHz
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

WORSE 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)	
	Worse Case	Siemon Typical	Worse Case	Siemon Typical	Worse Case	Siemon Typical	Worse Case	Siemon Typical	Worse Case	Siemon Typical	Worse Case	Siemon Typical	Worse Case	Siemon Typical	Worse Case	Siemon Typical	Worse Case	Siemon Typical
1	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	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	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	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	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	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	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	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	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	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	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*	-	44.0	-	58.2	-	54.9	-	14.0	-	10.4	-	41.5	-	40.4	-	20.3	-	434
625*	-	46.2	-	57.6	-	56.5	-	11.2	-	9.3	-	41.5	-	39.8	-	22.6	-	434
750*	-	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 metres (328 ft.).

Ordering Information:

Part #	Description
9N6J4-A5.	LSFROH (IEC 60332-3-25), violet jacket, Class E _{ca} , D _{ca} , C _{ca} *, 305m (1000 ft.) reel

*Initial type test complete. System 1+ requirements pending