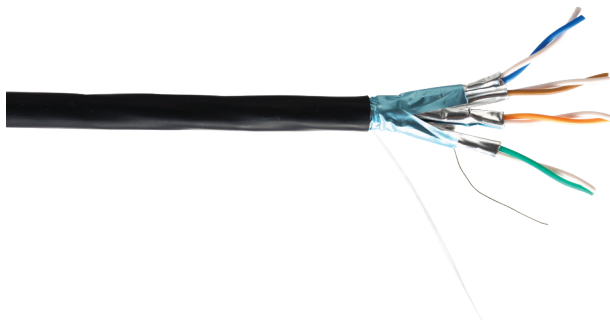
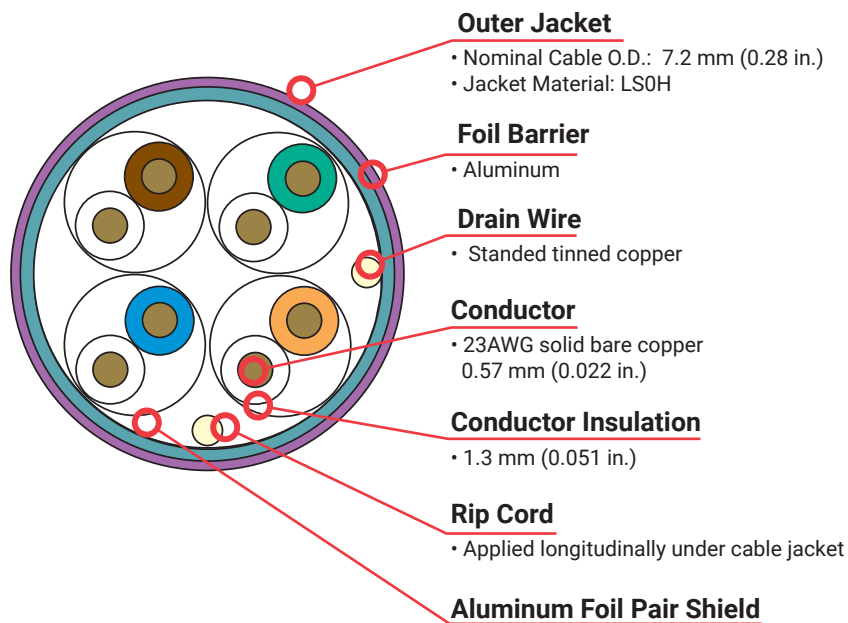


Category 6A F/FTP Indoor/Outdoor LS0H Cable

Regional Availability - International

Siemon's Category 6A F/FTP Indoor/Outdoor (I/O) cable delivers TIA and ISO/IEC performance requirements for Category 6A/Class EA. This cable provides moisture and sunlight resistance along with reliable cold bend performance. Being LS0H and CMX outdoor rated, this cable transitions easily from indoor to outdoor environments and is also suitable for cable tray installations. Ideal for use in both indoor and outdoor applications such as outdoor security cameras, WAPs, and parking garages where cable is not subject to long term water immersion. This cable is not suitable for direct burial applications.



Cable Features

- F/FTP Low Smoke, Zero Halogen
- Jacket Color: Black
- Nominal Jacket OD:
7.2 mm (0.28 in.)
- 23 AWG 0.57mm (0.022 in.)
solid bare copper
- Sunlight Resistant
- Moisture Resistant
- -40 to 80° C Temperature Rating

Standards Compliance

- ISO/IEC 11801-1 (Class Ea)
- ANSI/TIA-568.2-E (Category 6A)
- IEC 61156-5 (Category 6A)
- UL444 CMX Outdoor
- UL444 7.22 Sunlight Resistant 720 hrs
- UL444 7.10 Cold Bend -40° C
- RoHS
- IEC 60332-1, 61034-2, 60754-2
- EN 50575 Dca, s2, d2, a1

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)



Data | Power | Reach | Delivered

Product Information

Electrical Specifications

DC Resistance	<9.38Ω/100m
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
NVP	78%
TCL	30-10 log(f/100) dB
Delay Skew	≤45ns/100M

Physical Properties

Pulling Tension (max)	110N (25 lbf)
Bend Radius (min)	28.8mm (1.13 in.)
Installation Temperature	-10 to 50°C (14 to 122°F)
Storage Temperature	-40 to 80°C (-40 to 176°F)
Operating Temperature	-40 to 80°C (-40 to 176°F)

Transmission Performance

Guaranteed Worst Case
 Siemon Typical

Test Parameter	Frequency (MHz)																
	1.0	4.0	10.0	16.0	20.0	31.25	62.5	100.0	160.0	200.0	250.0	300.0	400.0	500.0	550.0*	625.0*	750.0*
Insertion Loss (dB)	2.1	3.8	5.9	7.5	8.4	10.5	15.0	19.1	24.5	27.6	31.1	34.3	40.1	45.3	-	-	-
	2.0	3.6	5.5	7.0	7.9	9.8	14.0	17.8	22.6	25.3	28.4	31.2	36.4	40.9	43.3	46.0	51.0
NEXT (dB)	75.3	66.3	60.3	57.2	55.8	52.9	48.4	45.3	42.2	40.8	39.3	38.1	36.3	34.8	-	-	-
	86.5	84.8	73.2	66.2	68.8	63.4	57.8	54.3	52.2	50.0	48.5	51.3	47.1	42.6	40.2	34.4	32.7
PS NEXT (dB)	73.3	64.3	58.3	55.2	53.8	50.9	46.4	43.3	40.2	38.8	37.3	36.1	34.3	32.8	-	-	-
	83.5	80.8	71.8	65.8	66.0	61.3	56.8	54.1	48.8	47.3	47.6	48.5	46.3	40.8	39.5	33.9	32.4
ACR-F (dB)	73.3	61.3	53.3	49.2	47.3	43.4	37.4	33.3	29.2	27.3	25.3	23.8	21.3	19.3	-	-	-
	87.4	75.2	67.5	63.5	61.6	57.8	52.1	48.6	45.7	44.3	42.6	39.7	36.6	33.4	30.8	32.8	37.4
PS ACR-F (dB)	71.3	59.3	51.3	47.2	45.3	41.4	35.4	31.3	27.2	25.3	23.3	21.8	19.3	17.3	-	-	-
	86.7	74.7	67.1	62.8	60.8	56.5	51.5	48.2	44.5	41.9	41.9	37.8	35.7	32.9	30.3	32.5	36.3
Return Loss (dB)	20.0	23.0	25.0	25.0	25.0	23.7	21.5	20.1	18.7	18.0	17.3	17.3	17.3	17.3	-	-	-
	26.3	31.5	32.0	34.1	34.4	35.6	37.0	29.9	28.4	27.0	29.1	23.3	22.3	23.1	22.3	21.2	16.7
ACR-N (dB)	73.2	62.5	54.4	49.8	47.4	42.4	33.4	26.2	17.7	13.2	8.3	3.9	-3.8	-10.4	-	-	-
	84.6	81.2	67.8	59.2	60.9	53.6	44.2	37.1	30.4	25.7	21.3	20.0	12.3	1.7	-3.1	-11.5	-18.3
PS ACR-N (dB)	71.2	60.5	52.4	47.8	45.4	40.4	31.4	24.2	15.7	11.2	6.3	1.9	-5.8	-12.4	-	-	-
	81.5	77.2	66.3	58.8	58.2	51.5	42.9	36.5	26.4	22.3	19.6	17.7	10.7	0.6	-3.6	-11.7	-18.3
Propagation Delay (ns)	570	552	545	543	542	540	539	538	537	537	536	536	536	536	-	-	-
	431	427	423	422	421	420	419	419	418	418	418	418	418	418	418	418	418

* Values above 500 MHz are informational only.

All performance based on 100 meters (328 ft.)

Ordering Information

Part Number Description

9N6LW4-A5-01R1A Category 6A Indoor/Outdoor LS0H Cable, 4-pair, 23AWG, F/FTP, Black, 305m (1000 ft.) Reel.



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