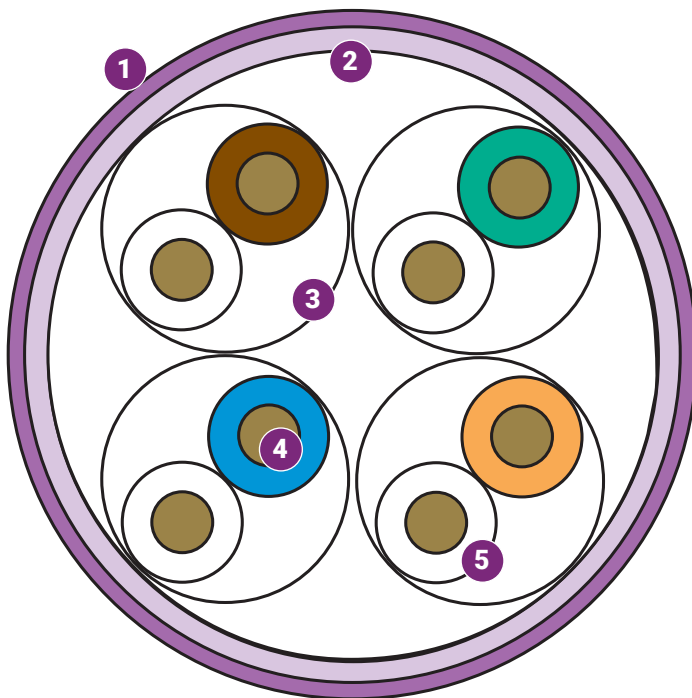


Category 6A/7 600 MHz S/FTP 4-Pair Cable

Regional Availability – India, Middle East, Africa



Siemon's Category 6A/7 fully shielded S/FTP cable was designed to meet the transmission performance requirements specified to 600 MHz per ISO/IEC 11801-1 Class F. Additionally, this cable meets all Category 6A requirements specified by both ANSI/TIA 568.2-D and ISO/IEC 11801-1 Class EA. This cable is commonly coupled with Z-MAX or TERA shielded connectivity to deliver optimal channel performance. In PoE remote power applications, this cable minimizes power loss and sheds heat build-up and can be installed in ambient environments up to 60°C with headroom for 15 degrees of temperature rise and will not experience degradation due to elevated heat inside the cable bundle. This Siemon high-performance cable is the ideal way to ensure optimum channel performance and is essential for a complete end-to-end warranted solution.



1. Jacket

Nominal Cable
O.D. 7.1mm (0.28 in.)
Jacket Material: LSOH

2. Outer Shield

Tinned Copper Braid

3. Individual Shield

Aluminum Polyester Foil Tape

4. Conductor

23AWG solid bare copper
0.56mm (0.022 in.)

5. Conductor Insulation

HDPE, FRPE



Cable Features

- S/FTP
- Nominal jacket OD: 7.1mm (0.28 in.)
- 23 AWG 0.57mm (0.022 in.) solid (non-tinned) copper
- Sequential measurement markings on jacket
- Pairs individually shielded with aluminum-polyester foil
- Overall tinned-copper braid
- 75° C temperature rating

Standard Compliance

- ISO/IEC 11801-1 Ed 1.0 (Class EA and F)
- ANSI/TIA-568.2-D (Category 6A)
- EN 50173 (Class EA and F)
- IEC 61156-5 (Category 6A and 7)
- EN 50288-4-1 (Category 6A and 7)
- ISO/IEC 14763-2 (Segregation Class d)
- EN 50174-2 (Segregation Class d)
- EN 55022, EN 55024
- EN 50575 Class B2ca s1a d1 a1
- LSOH: IEC 60332-1, IEC 60332-2, IEC 60754, IEC 61034-2

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	<7.32 Ω/100m
DC RESISTANCE UNBALANCE	2%
MUTUAL CAPACITANCE	5.6 nF/100m
CAPACITANCE UNBALANCE	<160 pF/100m
CHARACTERISTIC IMPEDANCE (ohms)	1-100 MHz: 100 ± 15%, 100-600 MHz: 100 ± 22%
NVP	72%
TCL	40-10 log(f/100) dB
DELAY SKEW	≤25ns/100m

PHYSICAL PROPERTIES

PULLING TENSION (MAX)	80 N (18 lbf)
BEND RADIUS (MIN)	50mm (2.0 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)

 Siemon Guaranteed Worst Case

 Siemon Typical

TRANSMISSION PERFORMANCE

FREQUENCY (MHz)

TEST PARAMETER	1.0	4.0	10.0	16.0	20.0	31.25	62.5	100.0	200.0	250.0	300.0	400.0	500.0	600.0	700.0	800.0	850.0
INSERTION LOSS (dB)	2.1	3.7	5.8	7.3	8.2	10.3	14.6	18.5	26.5	29.7	32.7	38.0	42.8	47.1	-	-	-
	1.8	3.4	5.3	6.8	7.6	9.7	13.9	17.7	25.2	28.3	31.1	36.1	40.4	44.4	48.2	51.8	53.9
NEXT (dB)	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	73.9	72.4	71.2	69.4	67.9	66.7	-	-	-
	103.7	106.8	111.6	113.9	110.2	112.4	114.0	108.3	112.5	108.6	106.2	108.0	96.1	97.0	98.8	94.6	82.2
PS NEXT (dB)	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	70.9	69.4	68.2	66.4	64.9	63.7	-	-	-
	110.0	117.2	121.1	121.9	117.4	119.5	121.6	117.5	118.7	115.0	112.2	116.9	103.4	101.8	106.0	103.7	94.7
ACR-N (dB)	75.9	74.3	72.2	70.7	69.8	67.7	63.4	59.5	47.4	42.7	38.6	31.4	25.2	19.6	-	-	-
	101.9	103.4	106.3	107.0	102.5	102.7	100.1	90.6	87.3	80.3	75.1	71.9	55.7	52.5	50.6	42.8	28.4
PS ACR-N (dB)	72.9	71.3	69.2	67.7	66.8	64.7	60.4	56.5	44.4	39.7	35.6	28.4	22.2	16.6	-	-	-
	108.2	113.8	115.8	115.1	109.7	109.8	107.7	99.8	93.6	86.8	81.1	80.8	62.9	57.4	57.8	51.9	40.8
ACR-F (dB)	78.0	78.0	78.0	78.0	78.0	75.4	69.4	65.3	59.3	57.3	55.8	53.3	51.3	49.7	-	-	-
	94.8	90.5	109.0	107.0	115.7	106.8	102.4	100.8	85.9	88.2	84.7	71.9	79.6	69.9	59.9	60.9	48.1
PS ACR-F (dB)	75.0	75.0	75.0	75.0	75.0	72.4	66.4	62.3	56.3	54.3	52.8	50.3	48.3	46.7	-	-	-
	102.3	91.8	116.2	114.5	117.7	109.8	109.8	103.0	90.9	89.5	90.1	76.8	83.6	71.7	61.0	62.9	55.2
RETURN LOSS (dB)	20.0	23.0	25.0	25.0	25.0	23.6	21.5	20.1	18.0	17.3	17.3	17.3	17.3	17.3	-	-	-
	32.7	27.4	35.9	36.6	36.4	39.2	33.6	37.8	38.9	35.2	36.9	36.2	32.8	34.8	33.5	29.9	31.0

*Values above 600 MHz are for information only.

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

Ordering Information

Part Number	Description
9T7L4-E6-T	Category 6A/7, 600 MHz, 4-pair, solid, S/FTP LS0H cable, violet jacket, 305m reel
9T7L4-E6-5CRT	Category 6A/7, 600 MHz, 4-pair, solid, S/FTP LS0H cable, violet jacket, 500m reel
9T7L4-E6-1KRT	Category 6A/7, 600 MHz, 4-pair, solid, S/FTP LS0H cable, violet jacket, 1000m reel



9T7L4-E6-T

For additional reel put-ups and cable colors, please contact Siemon Customer Service.

*Note: 9T7L4-E6-T is equivalent to 9T7L4-E6. "T" indicates specific sourcing for this region.



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