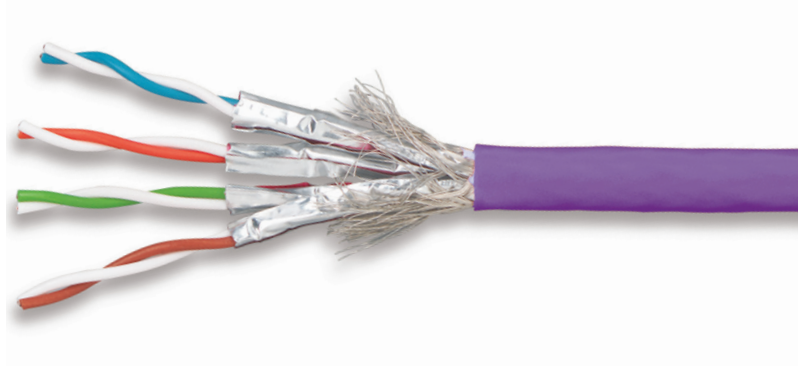


Category 7 600 MHz Cable - CPR Cca Rated - International

Siemon's Category 7 600 MHz cable perfectly complements the performance of our TERA outlets. Siemon cable exceeds all ISO/IEC requirements for category 7/class F transmission performance beyond 600 MHz. A fully shielded cable with individual foils around each pair coupled with an outer braid provides perfect immunity from outside interferences. In addition, the cable jacket has been qualified for mechanical reliability in high temperature environments up to 75°C. In PoE remote power applications, this cable can be installed in environments up to 60°C and will not experience degradation due to heat rise inside the cable bundle. Siemon cable is the ideal way to ensure optimum channel performance and is essential for a complete end-to-end warranted solution.



Siemon's **PowerGUARD** technology with a 75°C operating temperature improves heat dissipation for reduced length derating and bundling requirements in remote powering applications, including PoE and power over HDBaseT (POH).



CABLE FEATURES

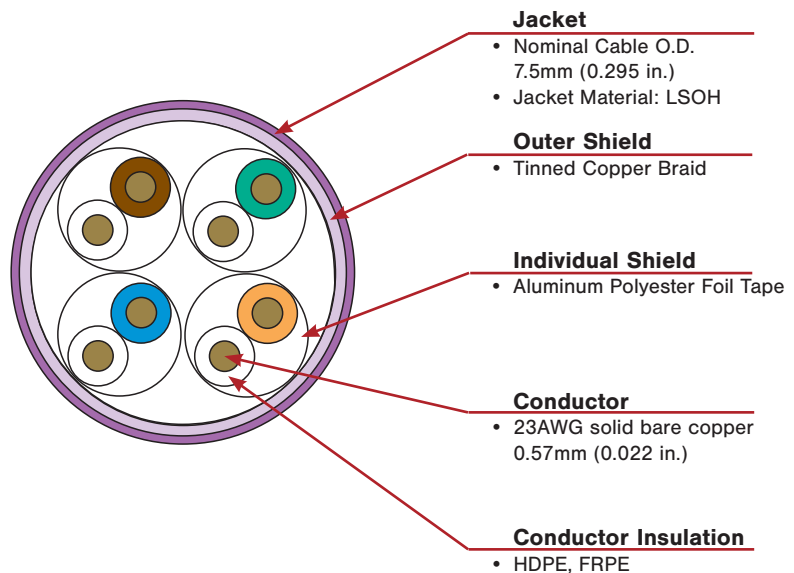
- S/FTP
- Nominal jacket OD: 7.5mm (0.295 in.)
- 23 AWG 0.57mm (0.022 in.) solid (non-tinned) copper
- Sequential measurement markings on jacket
- Pairs individually shielded with aluminum-polyester foil
- Overall tinned-copper braid
- 75° C temperature rating

STANDARDS COMPLIANCE

- ISO/IEC 11801-1 Ed 1.0 (Class F)
- EN 50173 (Class F)
- IEC 61156-5 (Category 7)
- EN 50288-4-1 (Category 7)
- ISO/IEC 14763-2 (Segregation Class d)
- EN 50174-2 (Segregation Class d)
- EN 55022, EN 55024
- EN 50575 Class C_{ca} s_{1a} d₁ a₁
- LSOH: IEC 60332-1, IEC 60754, IEC 61034

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)



Product Information

ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38 Ω/100m
DC Resistance Unbalance	2%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<160 pF/100m
Characteristic Impedance (ohms)	1 - 100MHz: 100 ± 15% 100 - 250MHz: 100 ± 18% 250 - 600MHz: 100 ± 25%
NVP	74%
TCL	40-10 log(f/100) dB
Delay Skew	≤25ns/100m

PHYSICAL PROPERTIES

Pulling Tension (max)	112N (25 lbf)
Bend Radius (min)	50mm (2.0 in.)
Installation Temperature	-10 to 50°C (14 to 122°F)
Storage Temperature	-20 to 75°C (-4 to 167°F)
Operating Temperature	-20 to 75°C (-4 to 167°F)

LSOH

TRANSMISSION PERFORMANCE



GUARANTEED WORST CASE



SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		ACR-N (dB)		PS ACR-N (dB)		Propagation Delay (ns)	
	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical
1.0	2.0	2.0	78.0	102.1	75.0	99.2	78.0	87.8	75.0	83.6	20.0	29.6	78.0	100.1	92.3	97.3	512	459
4.0	3.7	3.5	78.0	105.9	75.0	103.8	78.0	100.5	75.0	95.8	22.9	26.0	78.0	102.4	80.3	100.4	494	455
10.0	5.8	5.6	78.0	104.6	75.0	100.3	75.4	94.6	72.4	92.8	25.0	31.4	75.4	99.2	72.3	94.8	487	451
16.0	7.3	7.0	78.0	98.7	75.0	96.3	71.4	94.5	68.4	91.7	25.0	32.0	71.4	91.7	68.2	89.3	485	450
20.0	8.2	8.0	78.0	103.1	75.0	99.8	69.4	95.7	66.4	92.4	25.0	32.7	69.4	95.2	66.3	91.8	484	449
31.25	10.4	10.1	78.0	102.7	75.0	98.4	65.5	90.0	62.5	87.5	23.7	32.6	65.5	92.6	62.4	88.3	482	448
62.5	14.9	14.4	75.5	105.9	72.5	102.8	59.4	81.5	56.4	80.3	21.6	33.7	59.4	91.5	56.4	88.4	481	448
100.0	19.0	18.3	72.4	110.9	69.4	108.8	55.3	77.2	52.3	75.9	20.1	35.1	55.3	92.9	52.3	90.5	480	447
200.0	27.5	26.1	67.9	105.4	64.9	103.0	49.3	78.0	46.3	74.3	18.0	35.2	49.3	79.4	46.3	77.4	479	447
250.0	31.0	29.3	66.4	103.5	63.4	101.8	47.4	68.6	44.4	66.4	17.3	30.3	47.4	74.5	44.3	72.7	478	446
300.0	34.2	32.2	65.2	104.4	62.2	102.9	45.8	64.6	42.8	62.3	17.3	26.4	45.8	72.4	42.8	71.0	478	446
400.0	40.0	37.3	63.4	101.6	60.4	98.8	43.3	64.8	40.3	63.5	17.3	26.4	43.3	64.5	40.3	61.5	478	446
500.0	45.3	41.9	61.9	95.7	58.9	93.4	41.3	58.1	38.3	55.0	17.3	25.4	41.3	54.5	38.3	51.5	478	446
550.0	47.7	44.0	61.3	99.2	58.3	96.3	40.5	55.5	37.5	51.6	17.3	24.3	40.5	55.2	37.5	52.3	478	446
600.0	50.1	46.1	61.2	99.4	57.7	91.3	39.7	51.6	36.7	49.9	17.3	26.0	39.7	46.7	36.7	45.3	477	446

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

Ordering Information

Part Number	Description
9T7C14-E6-08R1A	LSOH (IEC 60332-1), violet jacket, Class Eca,Dca,Cca, 305M Reel
9T7C14-E6-085CR	LSOH (IEC 60332-1), violet jacket, Class Eca,Dca,Cca, 500M Reel
9T7C14-E6-081KR	LSOH (IEC 60332-1), violet jacket, Class Eca,Dca,Cca, 1KM Reel

Other colors available with longer lead time and minimum order quantity.
Please contact Customer Service for more information.

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

North America P: (1) 860 945 4200	Asia Pacific P: (61) 2 8977 7500	Latin America P: (571) 657 1950/51/52	Europe P: (44) 0 1932 571771	China P: (86) 215385 0303	India Middle East P: (971) 4 3689743
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Siemon Interconnect Solutions
P: (1) 860 945 4213
www.siemon.com/SIS