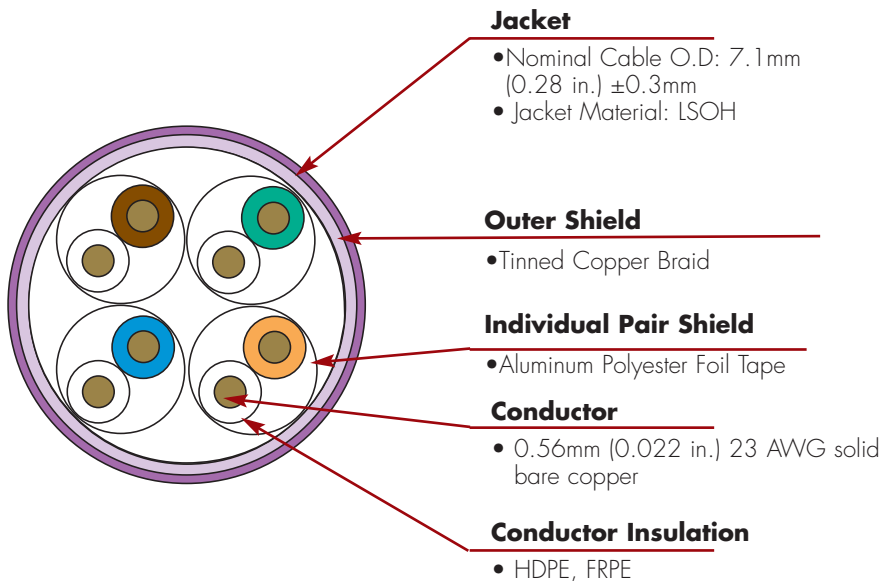


TERA® E6 Cable

7

CABLE — INTERNATIONAL

Siemon's TERA E6 S/FTP 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.



HIGHLIGHTS

- S/FTP
- 23 AWG solid (non-tinned) copper
- Pairs individually shielded
- Overall tinned-copper braid
- Reverse Sequential measurement markings on jacket

COMPLIANCE

- ISO/IEC 11801: Ed 2.2
- IEC 61156-5: Ed 2.0 (Category 7)
- EN 50288 • EN55022
- EN 50173 • EN55024
- IEEE 802.3an
- LSOH: IEC 60332-1, IEC 60754, and IEC 61034

ETHERNET APPLICATIONS SUPPORT

- 10GBASE-T
- 1000BASE-T
- 100BASE-T
- 10BASE-T

PRODUCT INFORMATION

ELECTRICAL SPECIFICATIONS (Nominal)

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%
LCL	40-10 x log(f)dB
Delay Skew	≤25ns/100m

PHYSICAL PROPERTIES

	LSOH
Pulling Tension (max)	80N
Bend Radius (min)	50mm
Installation Temperature	0 to 60°C
Storage Temperature	-20 to 75°C
Operating Temperature	-20 to 75°C

TRANSMISSION PERFORMANCE

SIEMON TYPICAL

CAT 7/IEC 61156-5

Frequency (MHz)	Insertion Loss (dB) max		NEXT (dB) min		PSNEXT (dB) min		ACR (dB) min		PSACR (dB) min		ACR-F (dB) min		PSACR-F (dB) min		Return Loss (dB) min	
1	-2.1	-1.8	-78.0	-103.7	-75.0	-110.0	-75.9	-101.9	-72.9	-108.2	-78.0	-94.8	-75.0	-102.3	-20.0	-32.7
4	-3.7	-3.4	-78.0	-106.8	-75.0	-117.2	-74.3	-103.4	-71.3	-113.8	-78.0	-90.5	-75.0	-91.8	-23.0	-27.4
10	-5.8	-5.3	-78.0	-111.6	-75.0	-121.1	-72.2	-106.3	-69.2	-115.8	-78.0	-109.0	-75.0	-116.2	-25.0	-35.9
16	-7.3	-6.8	-78.0	-113.9	-75.0	-121.9	-70.7	-107.0	-67.7	-115.1	-78.0	-107.0	-75.0	-114.5	-25.0	-36.6
20	-8.2	-7.6	-78.0	-110.2	-75.0	-117.4	-69.8	-102.5	-66.8	-109.7	-78.0	-115.7	-75.0	-117.7	-25.0	-36.4
31.25	-10.3	-9.7	-78.0	-112.4	-75.0	-119.5	-67.7	-102.7	-64.7	-109.8	-75.4	-106.8	-72.4	-109.8	-23.6	-39.2
62.5	-14.6	-13.9	-78.0	-114.0	-75.0	-121.6	-63.4	-100.1	-60.4	-107.7	-69.4	-102.4	-66.4	-109.8	-21.5	-33.6
100	-18.5	-17.7	-78.0	-108.3	-75.0	-117.5	-59.5	-90.6	-56.5	-99.8	-65.3	-100.8	-62.3	-103.0	-20.1	-37.8
200	-26.5	-25.2	-73.9	-112.5	-70.9	-118.7	-47.4	-87.3	-44.4	-93.6	-59.3	-85.9	-56.3	-90.9	-18.0	-38.9
250	-29.7	-28.3	-72.4	-108.6	-69.4	-115.0	-42.7	-80.3	-39.7	-86.8	-57.3	-88.2	-54.3	-89.5	-17.3	-35.2
300	-32.7	-31.1	-71.2	-106.2	-68.2	-112.2	-38.6	-75.1	-35.6	-81.1	-55.8	-84.7	-52.8	-90.1	-17.3	-36.9
400	-38.0	-36.1	-69.4	-108.0	-66.4	-116.9	-31.4	-71.9	-28.4	-80.8	-53.3	-71.9	-50.3	-76.8	-17.3	-36.2
500	-42.8	-40.4	-67.9	-96.1	-64.9	-103.4	-25.2	-55.7	-22.2	-62.9	-51.3	-79.6	-48.3	-83.6	-17.3	-32.8
600	-47.1	-44.4	-66.7	-97.0	-63.7	-101.8	-19.6	-52.5	-16.6	-57.4	-49.7	-69.9	-46.7	-71.7	-17.3	-34.8
700*	-	-48.2	-	-98.8	-	-106.0	-	-50.6	-	-57.8	-	-59.9	-	-61.0	-	-33.5
800*	-	-51.8	-	-94.6	-	-103.7	-	-42.8	-	-51.9	-	-60.9	-	-62.9	-	-29.9
850*	-	-53.9	-	-82.2	-	-94.7	-	-28.4	-	-40.8	-	-48.1	-	-55.2	-	-31.0

*Values above 600 MHz are informational only.

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

TERA® E6 MHz 4-Pair Solid S/FTP Cable:

- 9T7L4-E6LSOH (IEC 60332-1), Violet Jacket, 305m (1000 Ft.)
- 9T7L4-E6-5CRLSOH (IEC 60332-1), Violet Jacket, 500m (1640 ft.)
- 9T7L4-E6-1KRLSOH (IEC 60332-1), Violet Jacket, 1000m (3280 ft.)

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

TERA® is a trademark of Siemon

For related product information request Spec Sheet(s):

- TERA Outlets (PROD-SS-TRAO)
- TERA Patch Panels (PROD-SS-TRAPP)
- TERA Patch Cords (PROD-SS-TRAPC)
- TERA S/FTP Trunking Cable Assemblies (PROD-SS-TRATC)

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