

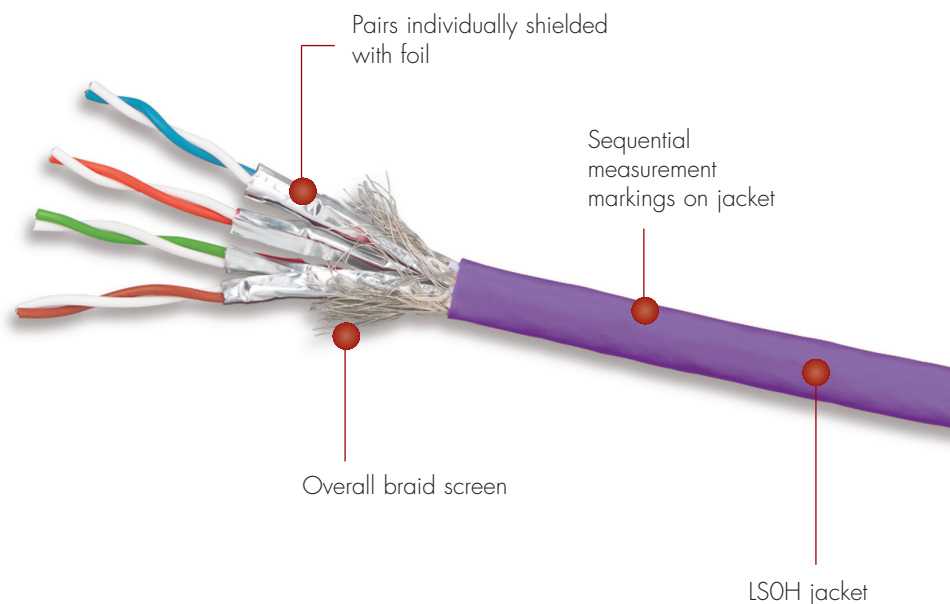
TERA® 1000 MHz CABLE

Part of the 10G *ip*™ cabling solution Siemon's TERA 1000 MHz cable perfectly complements the performance of our TERA outlets. Siemon cable exceeds all TIA/EIA and ISO/IEC requirements for category 7/class F transmission performance. Utilizing Siemon cable is the ideal way to ensure optimum channel performance and is essential for a complete end-to-end warranted system.



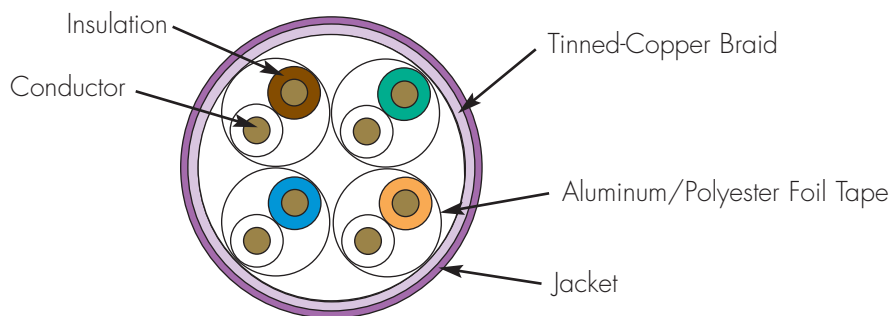
10G *ip*™

CABLE — INTERNATIONAL



Cable Construction

- S/FTP
- 0.57mm (0.023 in.) (23 AWG) solid bare copper
- 8.4mm (0.33 in.) max jacket diameter
- Pairs individually shielded with aluminum-polyester foil
- Overall tinned-copper braid



Compliance

- ISO/IEC 11801:2002 (category 7)
- IEC 61156-5:2002 (Including transfer impedance and coupling attenuation)
- LSOH: IEC 60332-1, IEC 60754, and IEC 61034

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PRODUCT INFORMATION

ELECTRICAL SPECIFICATIONS

DC Resistance	<17.0 Ω /100m
DC Resistance Unbalance	2%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1-100 MHz: 100 $\pm$ 15% 100-250 MHz: 200 $\pm$ 22% 250-1000 MHz: 100 $\pm$ 22%
NVP	80%
LCL	40-10 x log(f/dB)
Delay Skew	$\leq$ 20ns

PHYSICAL PROPERTIES

	LSOH
Pulling Tension (max)	110N (25 lbf)
Bend Radius (min)	50mm (2 in.)
Installation Temperature	0 to 60°C (+32 to 140°F)
Storage Temperature	-20 to 75°C (-4 to 167°F)
Operating Temperature	-20 to 60°C (-4 to 140°F)

TRANSMISSION PERFORMANCE

IEC 61156-5**

SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0*	2.1	1.7	78.0	100.0	75.0	97.0	75.9	98.3	72.9	95.3	78.0	90.0	75.0	87.0	20.0	30.0	512	492
4.0	3.7	3.4	78.0	100.0	75.0	97.0	74.3	96.6	71.3	93.6	78.0	90.0	75.0	87.0	23.0	33.0	494	474
10.0	5.8	5.0	78.0	100.0	75.0	97.0	72.2	95.0	69.2	92.0	74.0	90.0	71.0	87.0	25.0	35.0	487	467
16.0	7.3	6.4	78.0	100.0	75.0	97.0	70.7	93.6	67.7	90.6	69.9	90.0	66.9	87.0	25.0	35.0	485	465
20.0	8.2	7.1	78.0	100.0	75.0	97.0	69.8	92.9	66.8	89.9	68.0	90.0	65.0	87.0	25.0	35.0	484	464
31.25	10.3	9.0	78.0	100.0	75.0	97.0	67.7	91.0	64.7	88.0	64.1	90.0	61.1	87.0	23.6	33.6	482	462
62.5	14.6	13.0	75.5	100.0	72.5	97.0	60.9	87.0	57.9	84.0	58.1	85.0	55.1	82.0	21.5	31.5	481	461
100.0	18.5	16.8	72.4	98.0	69.4	95.0	53.9	81.2	50.9	78.2	54.0	81.0	51.0	78.0	20.1	30.1	480	460
200.0	26.5	23.9	67.9	93.0	64.9	90.0	41.4	69.1	38.4	66.1	48.0	77.0	45.0	74.0	18.0	28.0	479	459
250.0	29.7	28.5	66.4	92.1	63.4	89.1	36.7	63.6	33.7	60.6	46.0	76.0	43.0	73.0	17.3	27.3	478	458
300.0	32.7	29.2	65.2	91.0	62.2	88.0	32.6	61.8	29.6	58.8	44.5	71.0	41.5	68.0	17.3	27.3	478	458
350.0	35.4	31.8	64.2	90.3	61.2	87.3	28.8	58.5	25.8	55.5	43.1	69.0	40.1	66.0	17.3	27.3	478	458
400.0	38.0	33.4	63.4	89.1	60.4	86.1	25.4	55.7	22.4	52.7	42.0	68.1	39.0	65.1	17.3	27.3	478	458
550.0	45.0	37.2	61.3	87.3	58.3	84.3	16.3	50.1	13.3	47.1	39.2	66.2	36.2	63.1	17.3	27.3	478	458
600.0	47.1	42.5	60.7	86.1	57.7	83.1	13.6	43.6	10.6	40.6	38.4	60.0	35.4	57.0	17.3	27.3	477	458
800.0**	54.9	48.2	58.9	83.1	55.9	80.1	3.9	34.9	0.9	31.9	35.9	52.1	32.9	49.1	16.1	27.3	477	457
900.0**	58.5	53.8	58.1	82.0	55.1	79.0	-0.4	28.2	-3.4	25.2	34.9	48.0	31.9	45.0	15.5	25.0	477	456
1000.0**	61.9	57.5	57.4	81.0	54.4	78.0	-4.5	23.5	-7.5	20.5	34.0	46.0	31.0	43.0	15.1	24.0	477	456

*Values below 4 MHz are informational only.

**Values for IEC 61156-5 above 600 MHz are for information only

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

TERA® 1000 MHz 4-Pair Solid S/FTP Cable:

9T7L4-E10	LSOH (IEC 60332-1), Violet Jacket, 305m (1000 ft.)
9T7L4-E10-5CR	LSOH (IEC 60332-1), Violet Jacket, 500m (1640 ft.)
9T7L4-E10-1KR	LSOH (IEC 60332-1), Violet Jacket, 1000m (3281 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

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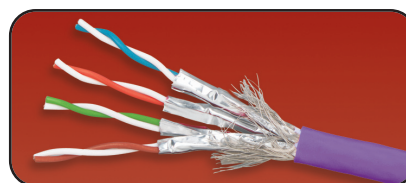
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9T7L4-E10

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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