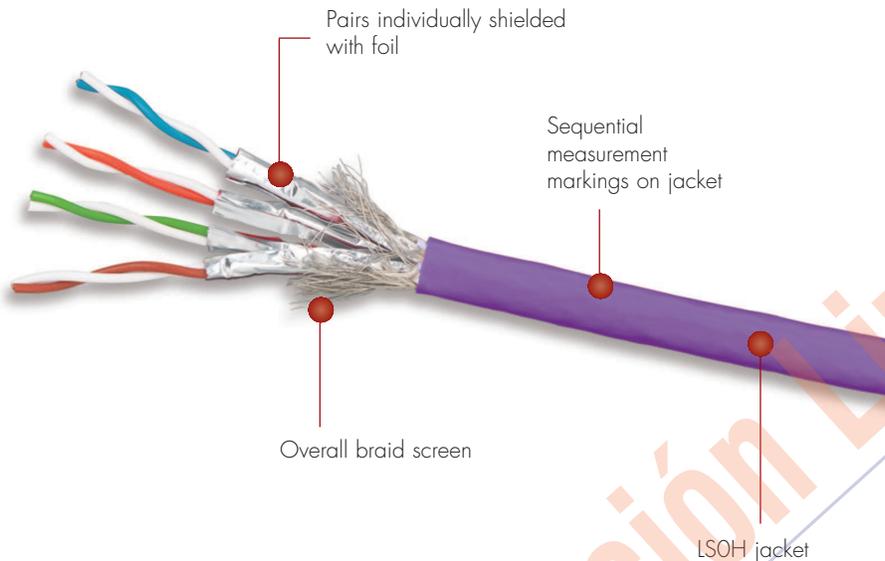# TERA® 1000 MHz CABLE

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 as well as proposed category 7_A/class F_A. Utilising Siemon cable is the ideal way to ensure optimum channel performance and is essential for a complete end-to-end warranted system.
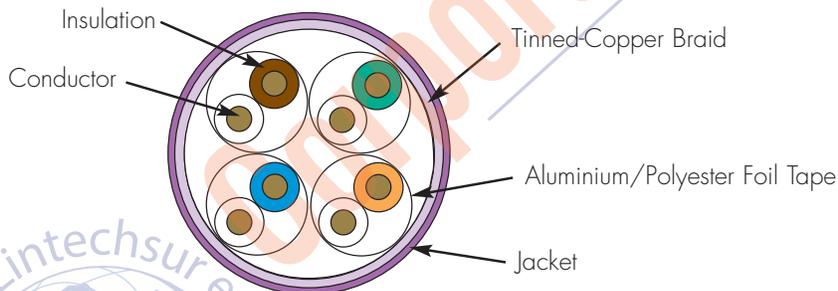
10G *ip*™

Pairs individually shielded with foil

Sequential measurement markings on jacket

Overall braid screen

LSOH jacket

Cable Construction
- S/FTP
- 0.57mm solid bare copper
- 8.4mm max jacket diameter
- Pairs individually shielded with aluminium-polyester foil
- Overall tinned-copper braid

Insulation

Conductor

Tinned-Copper Braid

Aluminium/Polyester Foil Tape

Jacket

Compliance
- ISO/IEC 11801:2002 (Category 7)
- ISO/IEC 11801/Amendment 1:2008 (Class F_A)
- ISO/IEC 11801:2002/Amendment 2:2008 (Category 7_A draft)
- IEC 61156-5:2002 (Category 7)
- IEC 61156-5 Ed 2.0 (Category 7_A)
- LSOH: IEC 60332-1, IEC 60754, and IEC 61034

CONNECTING THE WORLD TO A HIGHER STANDARD

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SIEMON™

CABLE — INTERNATIONAL

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	1-100 MHz: 100 ± 15%
(ohms)	100-250 MHz: 100 ± 22%
	250-1000 MHz: 100± 22%
NVP	80%
LCL	40-10 x log(f)dB
Delay Skew	≤20ns

PHYSICAL PROPERTIES

	LS0H
Pulling Tension (max)	110N
Bend Radius (min)	50mm
Installation Temperature	0 to 60°C
Storage Temperature	-20 to 75°C
Operating Temperature	-20 to 60°C

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 metres.

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

9T7L4-E10 ....LS0H (IEC 60332-1), Violet Jacket, 305m
9T7L4-E10-5CR ....LS0H (IEC 60332-1), Violet Jacket, 500m
9T7L4-E10-1KR ....LS0H (IEC 60332-1), Violet Jacket, 1000m

9T7L4-E10

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)