

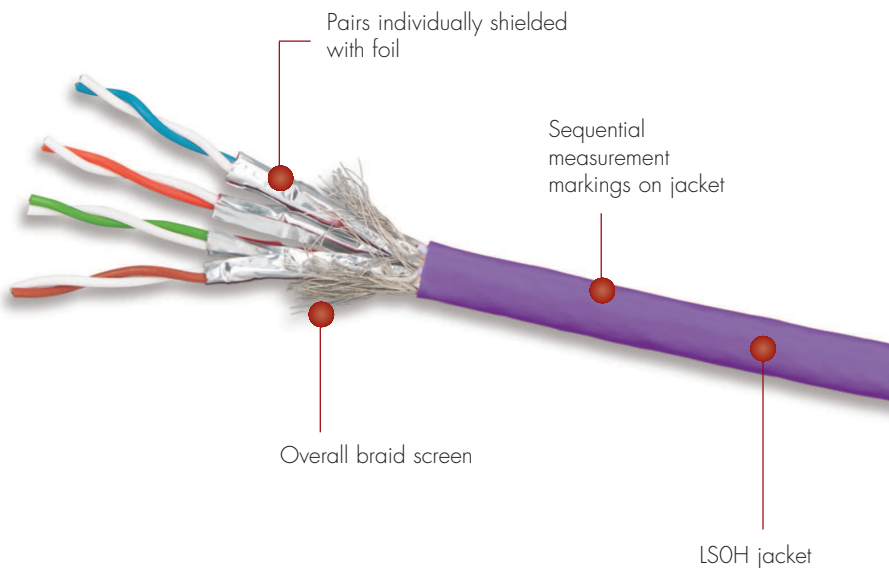
TERA® 1000 MHz CABLE

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.



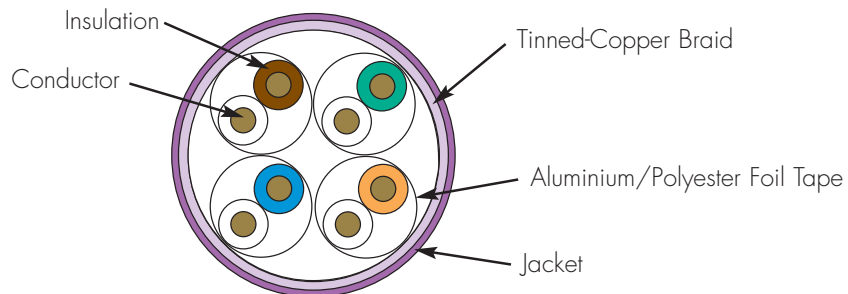
10G *ip*™

CABLE — INTERNATIONAL



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



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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PRODUCT INFORMATION

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

PHYSICAL PROPERTIES

	LSOH
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.

All performance based on 100 metres.

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

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

9T7L4-E10LSOH (IEC 60332-1), Violet Jacket, 305m
9T7L4-E10-5CRLSOH (IEC 60332-1), Violet Jacket, 500m
9T7L4-E10-1KRLSOH (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)

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ISO 9001
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