

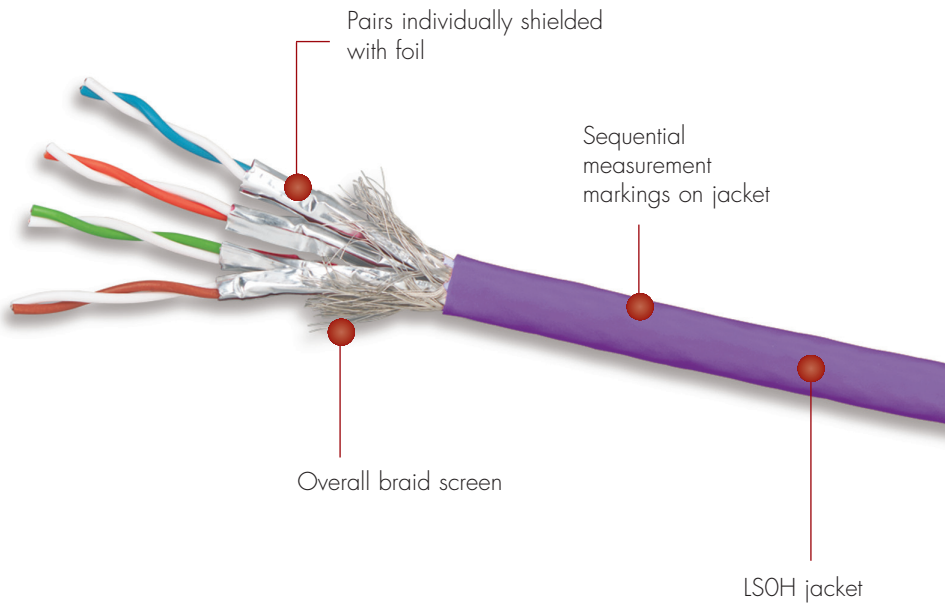
# TERA® 1000 MHz CABLE

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.



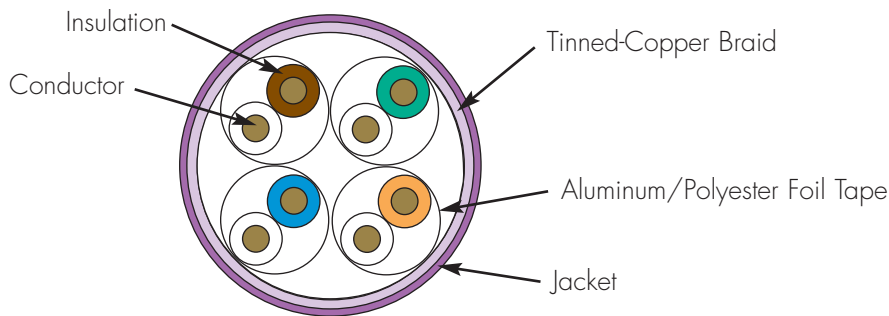
10G ip™

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 ± 15%<br>100-250 MHz: 200 ± 22%<br>250-1000 MHz: 100± 22% |
| NVP                             | 80%  |
| LCL                             | 40-10 x log(f/dB)  |
| Delay Skew                      | ≤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 |

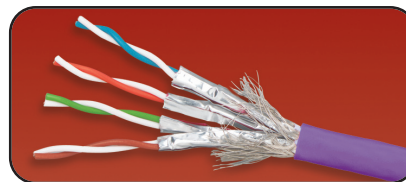
\*Values below 4 MHz are informational only.

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

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

### 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.)



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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