

Category 7_A/Class F_A Products

Exceeding ISO/IEC category 7_A /class F_A specifications, Siemon's fully shielded TERA end-to-end cabling solution is the highest-performing, most secure twisted-pair copper cabling system available. TERA supports performance beyond 10Gb/s and passes stringent TEMPEST security testing.

Beyond industry best speed and best total cost of ownership, TERA's unique cable-sharing ability in support of lower speed applications results in a more "Green" solution and can also provide up-front savings through the reduction of cable counts. By combining the use of one TERA outlet dedicated for high-speed applications of 10Gb/s and beyond and another for cable sharing of lower speed voice and video applications, end-users simultaneously benefit from the highest performing and most cost effective copper solution.

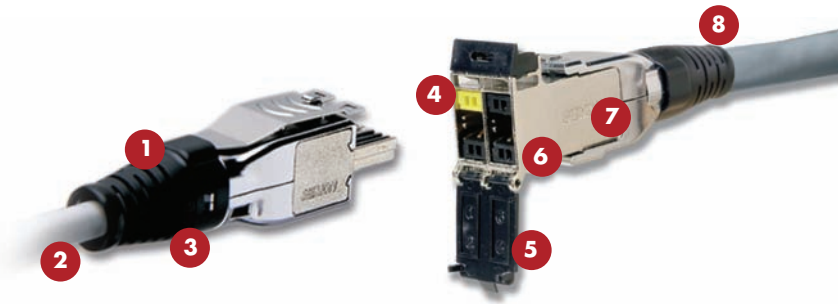
The only non-RJ connector approved as a category 7_A/class F_A interface, TERA fits within a standard RJ45 footprint and is easily connected to RJ45 equipped electronics via TERA to RJ patch cords.

SECTION CONTENTS

TERA 4-Pair Outlet	1.2
TERA-MAX® Patch Panels	1.3
TERA Patch Cords	1.4 – 1.5
TERA Video Baluns	1.5
TERA S/FTP Trunking Cable Assemblies	1.6
TERA F/FTP 600 MHz Cables (EMEA)	1.7
TERA S/FTP 600 MHz Cables (EMEA)	1.8
TERA S/FTP 1000 MHz Cables (EMEA)	1.9
TERA S/FTP 1200 MHz Cables (EMEA)	1.10

TERA Outlet

Invented by Siemon in 1999 and subsequently chosen as an industry standard interface for category 7/class F and category 7_A/class F_A, the Siemon TERA outlet is by far the highest performing twisted-pair copper connector in the world. When installed as part of a TERA solution, each pair delivers 1.2 GHz per pair — exceeding category 7_A/class F_A specifications. This extra bandwidth supports demanding applications like broadband video, with an upper frequency requirement of 862 MHz.



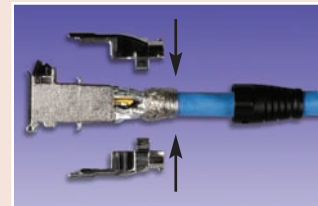
Easy Installation

CPT-T tool reduces preparation and termination time.



Mounting Options

The TERA outlet is compatible with TERA-MAX[®] patch panels and all MAX series faceplates.



Quick-Ground[™] Termination

No additional steps required for termination. Cable shield is automatically terminated within the outlet without additional steps or tools.

- 1 Bend Relief** — Rear boot provides bend relief for cable exiting the plug and outlet
- 2 Fully Shielded** — Terminates fully shielded (F/FTP and S/FTP) cable — virtually eliminates alien crosstalk
- 3 Shielded Termination** — Connector automatically assures proper termination of cable shield — no additional processes required for grounding cable
- 4 Compact Design** — Slim, compact design allows outlets to be side-stacked and inserted from either the front or rear of faceplates
- 5 Hinged Door** — Outlets include a hinged door to prevent exposure to dust and other contaminants
- 6 Quadrant Isolation** — Shielded quadrant design fully isolates pairs for optimum NEXT performance
- 7 Application Sharing** — TERA's ability to support multiple applications over a single 4-pair cable and outlet can save significant material and installation costs
- 8 TEMPEST Security Tested** — The TERA system is the first and only copper system to pass TEMPEST emissions testing by an independent, NSA certified lab, Dayton T. Brown Inc.

TERA 4-Pair Outlet

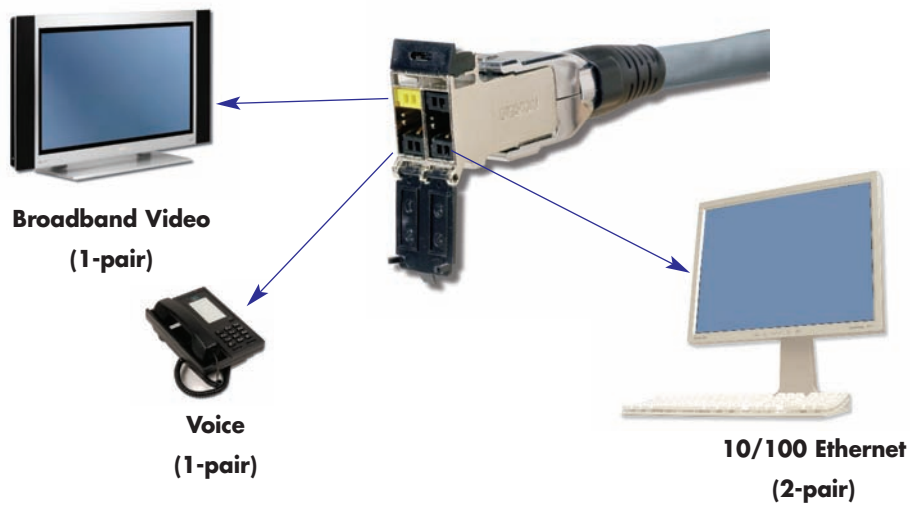
TERA outlets are the industry's highest performing network cabling connectors. Outlets accept 1-, 2- and 4-pair plugs and terminate fully shielded category 7 and 7_A cables. TERA outlets can be used in both the work area and in the telecommunications room.



Part #	Description
T7F-01-1	TERA 4-pair outlet with black door, latch and boot. Compatible with 0.64-0.55mm (22-23 AWG) solid S/FTP and F/FTP cable

TERA Cable Sharing

Up to four simultaneous applications can be served from a single 4-pair, S/FTP cable and TERA outlet, saving significant materials, labour, pathway and rack space.

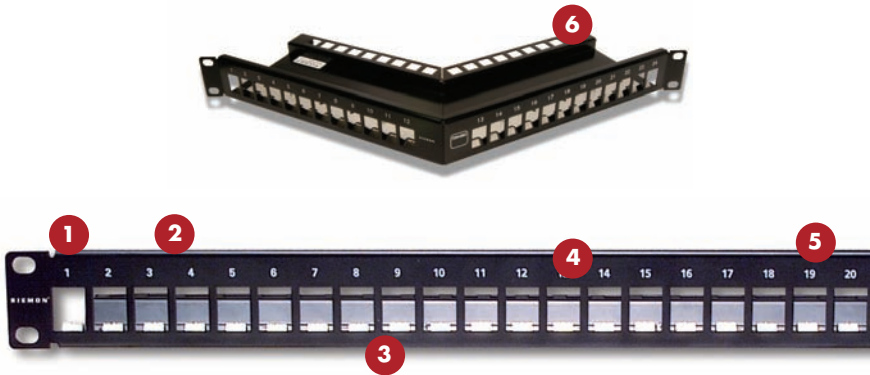


One TERA replaces four 1-pair analog voice outlets — perfect for call or fax centres.



TERA-MAX Patch Panels

TERA-MAX 19 inch patch panels provide outstanding performance and reliability in a shielded, high-density modular solution. As outlets are snapped into place, resilient ground tabs assure that each outlet is properly grounded. No secondary outlet grounding operations are required, reducing overall installation time.



- 1 Standard Fit** — Panels can be mounted directly on standard 19 inch relay rack or cabinet
- 2 Durable** — Lightweight, high strength steel with black or metallic finish
- 3 High Density** — 24 10Gb/s ports in only 1U — up to 96 ports with cable sharing
- 4 Installation Friendly** — Individual modules snap into place, providing integrated grounding without additional steps
- 5 Port Identification** — Bold port numbering enables quick identification of outlets
- 6 Angled TERA-MAX** — Allows direct routing of cables to vertical managers, eliminating the need for horizontal cable managers



Cable Management
Integral rear cable manager facilitates the orderly routing of horizontal cables as well as maintaining proper bend radius for optimum performance.



Slim Design
Use TERA outlets in TERA-MAX patch panel for telecommunications room applications.



Integrated Grounding
Panels feature integrated grounding via resilient ground tabs engaged during module insertion.

TERA-MAX PATCH PANELS

Part #	Description
TM-PNLZ-24-01	24-port TERA-MAX panel, black, 1U
TM-PNLZ-24	24-port TERA-MAX panel, metallic, 1U
TM-PNLZA-24-01	24-port Angled TERA-MAX panel, black, 1U
TM-PNLZA-24	24-port Angled TERA-MAX panel, metallic, 1U



Panels include designation labels, cable ties and mounting hardware.
Note: 1U = 44.5mm

TERA - Patch Cords

Part of the TERA cabling solution, TERA-to-TERA patch cords exceed bandwidth of category 7_A/class F_A specifications when combined with the TERA outlet. TERA delivers up to 1.2 GHz of bandwidth per pair, providing the extra bandwidth for demanding applications like Broadband Video, with an upper frequency requirement of 862 MHz. Facilitated by 1- and 2-pair patch cords, TERA's extended performance also supports cable sharing — the simultaneous convergence of video, voice and data onto a single 4-pair cable and outlet.



- 1 Standard Compliant Interface** – Recognised within ISO/IEC 11801 Ed. 2.0
- 2 4-Pair TERA - to - TERA** — supports category 7_A/class F_A performance to 10Gb/s and beyond
- 3 2-Pair TERA - to - Screened Category 5e** — MC® modular plug for 10/100 Ethernet, VoIP and video over IP
- 4 4-Pair TERA - to - Screened Augmented Category 6A** – MC modular plug for 1G/10G Ethernet performance
- 5 1-Pair TERA - to - TERA** – for analog voice and video patching. Video balun cord also available
- 6 1-Pair TERA - to - RJ11** – for analog voice

TERA FIELD-TERMINATED PLUG

TERA 4-pair plugs can be used to terminate horizontal cable in consolidation point applications. Plugs terminate fully shielded category 7 and 7A solid cable.

Part #	Description
T7P4-B(XX)-1	4-pair TERA plug with coloured boot. Compatible with 0.64 – 0.55mm (22 – 23 AWG) solid S/FTP and F/FTP cable

Use (XX) to specify boot colour: 01 = black, 02 = white, 03 = red, 05 = yellow, 06 = blue, 07 = green



Standard Footprint

ISO recognised interface allows TERA cords and outlets to fit within a standard RJ45 footprint.



Fully Compatible With Active Electronics

TERA to RJ45 patch cords allow the TERA system to be easily connected to RJ45 equipped active electronics.



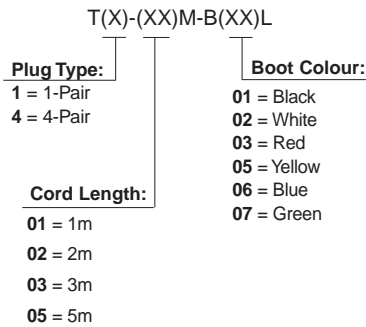
Cable Sharing

Multiple applications can be run over one 4-pair cable and outlet, saving significant material and installation cost.

TERA Patch Cords

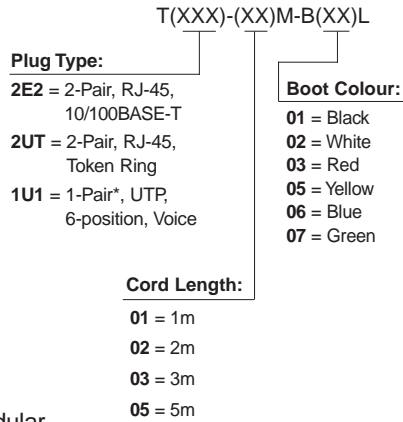
TERA CATEGORY 7_A PATCH CORDS

Category 7_A compatible, TERA-to-TERA, LS0H cable assembly, ivory jacket, coloured boot.



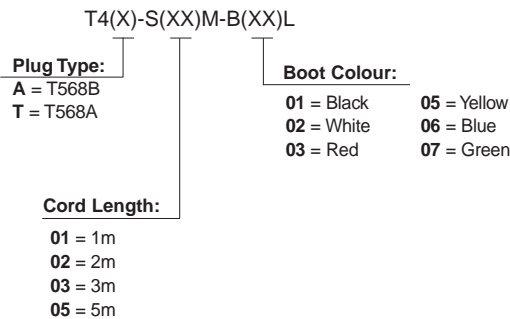
TERA CATEGORY 5_e COMPATIBLE PATCH CORDS

TERA-to-Screened RJ-45, or TERA-to- 6 position (Voice) modular plug, LS0H cable assembly, ivory jacket, coloured boot.

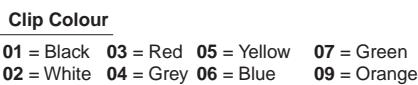


TERA CATEGORY 6A PATCH CORDS

Augmented Category 6A, TERA-to-Screened RJ-45 modular plug, LS0H cable assembly, ivory jacket, coloured boot.



CLIP-(XX) Colour coding clip, bag of 25



TERA VIDEO BALUN CORDS

TERA CATV baluns provide the optimum solution for the transmission of TV or CATV signals over structured cabling systems that were historically limited to voice and data transmission. These products convert the unbalanced TV signals designed for coaxial cabling (75 Ω impedance) to balanced signals (100 Ω impedance) as required for transmission over twisted pair (balanced) cabling. The TERA CATV adapters are specified and useable to 862 MHz. The 1-pair TERA to PAL and TERA to "F" patch cords utilise an integrated balun. The 1-pair shielded TERA to shielded RJ45 patch cord allows connection to third-party RJ45 baluns.

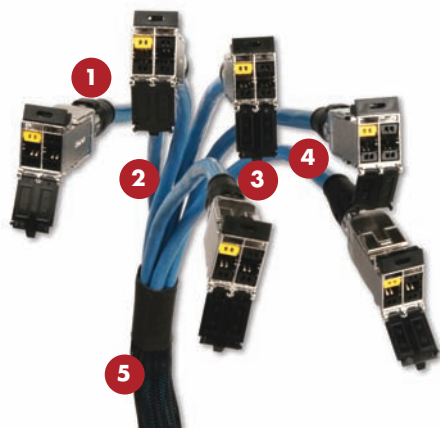
Part #	Description
T1VC-(XX)M-B01L	1-pair TERA-to-PAL connector, LS0H cable assembly, gray jacket
T1VF-(XX)M-B01L	1-pair TERA-to-F connector, LS0H cable assembly, gray jacket
T1S4V-(XX)M-B01L	1-pair shielded TERA-to-RJ45 patch cord

Use (XX) to specify length: 01 = 1m, 1.5 = 1.5m, 02 = 2m, 03 = 3m, 05 = 5m



TERA - S/FTP Trunking Cable Assemblies

Siemon's TERA copper trunking cable assemblies provide an efficient and cost effective alternative to individual field-terminated components. Combining factory terminated and tested TERA outlets and fully shielded Siemon category 7_A cable, Siemon TERA trunking cable assemblies offer industry leading performance to 10Gb/s and beyond. Standard configurations also help maintain consistent cable layout, facilitate efficient moves, adds and changes and significantly reduce scrap versus typical field installation. Modular design, in conjunction with reduced scrap, makes trunks the most "Green" method for copper cabling installations.



- 1 Proper Orientation** – Each leg is labeled for proper outlet orientation
- 2 Fully Shielded Cable** – Utilises high quality category 7_A S/FTP Siemon cable
- 3 Factory Terminated and Tested** – Utilises TERA outlets, factory terminated and tested for performance to 10Gb/s and beyond
- 4 Identification** – Each cable assembly is coded with a unique identification number for administrative purposes
- 5 Breakout Kit** – Unique breakout kit creates optimal cable orientation and limits cable crossing

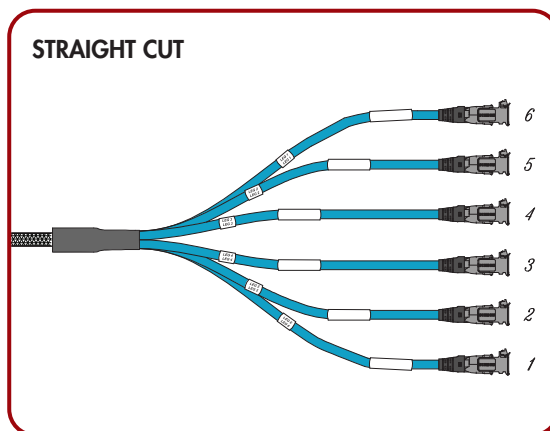
TERA S/FTP TRUNKING CABLE ASSEMBLIES

6 Leg Double-Ended Trunking Cable Assemblies:

Part #	Description
TJLD8E-F7F7(XXX)M. . . .	LSOH rated (IEC 60332-1), violet jacket, 1000MHz

Use (XXX) to specify length:
003- 090m in increments of 1m

Other lengths and configurations available upon request.



Note: These products are made to order. Call for lead time and part number availability in your region.



Data Centers

Ideal for data centre, raised floor and ladder rack environments enabling up to 75% faster deployment time. Well organised cable bundles improve cable management and air flow



Simple, Snap-In Installation

Straight Cut aligns TERA outlets for optimal snap in installation into TERA-MAX[®] patch panels and allows left, right or centre exit.



Protective Packaging

Each assembly is packaged individually to protect factory terminations.

TERA F/FTP 600 MHz 4-Pair Cable (EMEA)

COMPLIANCE

- ISO/IEC 11801:2002 (Category 7)
- IEC 61156-5:2002 (Category 7)
- LS0H: IEC 60332-1, IEC 60754, and IEC 61034

Part

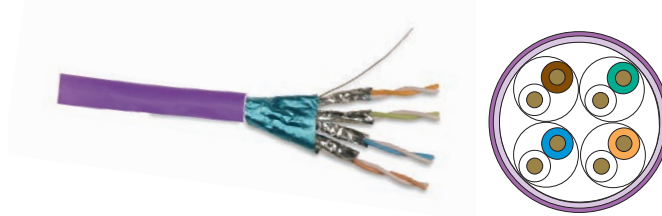
9N7L4-E6-5CR

Description

.LS0H (IEC 60332-1), Violet Jacket, 500m Reel

CABLE CONSTRUCTION

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



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% 250-600 MHz: 100± 25%
NVP	80%
TCL	40-10 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

ISO/IEC

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)	
	ISO/IEC	SIEMON TYPICAL	ISO/IEC	SIEMON TYPICAL	ISO/IEC	SIEMON TYPICAL	ISO/IEC	SIEMON TYPICAL	ISO/IEC	SIEMON TYPICAL	ISO/IEC	SIEMON TYPICAL	ISO/IEC	SIEMON TYPICAL	ISO/IEC	SIEMON TYPICAL	ISO/IEC	SIEMON TYPICAL
1.0*	2.0	1.7	78.0	100.0	75.0	97.0	76.0	98.3	73.0	95.3	78.0	90.0	75.0	87.0	20.0	30.0	570	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	552	474
10.0	5.9	5.0	78.0	100.0	75.0	97.0	72.1	95.0	69.1	92.0	74.0	90.0	71.0	87.0	25.0	35.0	545	467
16.0	7.4	6.4	78.0	100.0	75.0	97.0	70.6	93.6	67.6	90.6	69.9	90.0	66.9	87.0	25.0	35.0	543	465
20.0	8.3	7.1	78.0	100.0	75.0	97.0	69.7	92.9	66.7	89.9	68.0	90.0	65.0	87.0	25.0	35.0	542	464
31.25	10.4	9.0	78.0	100.0	75.0	97.0	67.6	91.0	64.6	88.0	64.1	90.0	61.1	87.0	23.6	33.6	540	462
62.5	14.9	13.0	75.5	100.0	72.5	97.0	60.6	87.0	57.6	84.0	58.1	85.0	55.1	82.0	21.5	31.5	539	461
100.0	19.0	16.8	72.4	98.0	69.4	95.0	53.4	81.2	50.4	78.2	54.0	81.0	51.0	78.0	20.1	30.1	538	460
200.0	27.5	23.9	67.9	93.0	64.9	90.0	40.4	69.1	37.4	66.1	48.0	77.0	45.0	74.0	18.0	28.0	537	459
250.0	31.0	28.5	66.4	92.1	63.4	89.1	35.5	63.6	32.5	60.6	46.0	76.0	43.0	73.0	17.3	27.3	536	458
300.0	34.2	29.2	65.2	91.0	62.2	88.0	31.1	61.8	28.1	58.8	44.5	71.0	41.5	68.0	17.3	27.3	536	458
350.0	37.2	31.8	64.2	90.3	61.2	87.3	27.1	58.5	24.1	55.5	43.1	69.0	40.1	66.0	17.3	27.3	536	458
400.0	40.0	33.4	63.4	89.1	60.4	86.1	23.4	55.7	20.4	52.7	42.0	68.1	39.0	65.1	17.3	27.3	536	458
550.0	47.7	37.2	61.3	87.3	58.3	84.3	13.6	50.1	10.6	47.1	39.2	66.2	36.2	63.1	17.3	27.3	536	458
600.0	50.1	42.5	60.7	86.1	57.7	83.1	10.6	43.6	7.6	40.6	38.4	60.0	35.4	57.0	17.3	27.3	536	458

*Values below 4 MHz are for information only

All performance based on 100 metres

TERA S/FTP 600 MHz 4-Pair Cable (EMEA)

COMPLIANCE

- ISO/IEC 11801:2002 (Category 7)
- IEC 61156-5:2002 (Category 7)
- LSOH: IEC 60332-1, IEC 60754, and IEC 61034

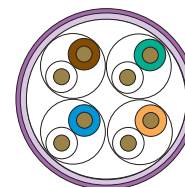
CABLE CONSTRUCTION

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

Part

9T7L4-E6 LSOH (IEC 60332-1), Violet Jacket, 305m Reel

Description



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% 100-600 MHz: 100 ± 22%
NVP	80%
TCL	40-10 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

ISO/IEC

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)	
	1.9	2.0	102.0	100.0	99.0	77.0	101.0	78.0	98.0	75.0	109.0	80.0	106.0	87.0	25.4	23.0
10.0	4.8	5.7	102.0	100.0	99.0	77.0	98.0	74.0	95.0	71.0	108.0	74.0	105.0	87.0	31.1	25.0
100.0	16.4	18.5	102.0	100.0	99.0	69.0	86.0	54.0	83.0	51.0	93.0	54.0	90.0	87.0	33.2	20.1
200.0	24.5	26.8	102.0	100.0	99.0	65.0	78.0	41.0	75.0	38.0	85.0	48.0	82.0	87.0	33.2	18.0
250.0	27.8	30.2	102.0	100.0	99.0	63.0	75.0	36.0	72.0	33.0	82.0	46.0	79.0	87.0	33.4	17.3
450.00	36.1	41.6	97.0	100.0	94.0	60.0	61.0	21.0	58.0	18.0	72.0	41.0	69.0	87.0	31.4	17.3
500.00	38.2	44.1	97.0	100.0	94.0	59.0	59.0	18.0	56.0	15.0	68.0	40.0	65.0	82.0	30.5	17.3
600.00	42.9	48.9	92.0	98.0	89.0	58.0	49.0	12.0	46.0	9.0	62.0	38.0	59.0	78.0	27.6	17.3
700.0	47.7	-	92.0	-	89.0	-	44.0	-	41.0	-	59.0	-	56.0	-	26.2	-
800.0	50.8	-	90.0	-	87.0	-	39.0	-	36.0	-	56.0	-	53.0	-	23.9	-
900.0	55.1	-	85.0	-	82.0	-	30.0	-	27.0	-	52.0	-	49.0	-	21.7	-
1000.0	61.0	-	75.0	-	75.0	-	14.0	-	11.0	-	42.0	-	39.0	-	18.0	-

*Values above 600MHz are for information only

All performance based on 100 metres

TERA S/FTP 1000 MHz 4-Pair Cable (EMEA)

COMPLIANCE

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

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

Part #	Description
9T7L4-E10	LSOH (IEC 60332-1), Violet Jacket, 305m Reel
9T7L4-E10-1KR	LSOH (IEC 60332-1), Violet Jacket, 1000m Reel



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± 25%
NVP	80%
TCL	40-10 log(f) dB
Delay Skew	≤20ns

PHYSICAL PROPERTIES

	LSOH
Pulling Tension (max)	110N (25 lbf)
Bend Radius (min)	50mm (2.0 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

ISO/IEC

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)	
	ISO/IEC	SIEMON TYPICAL	ISO/IEC	SIEMON TYPICAL	ISO/IEC	SIEMON TYPICAL	ISO/IEC	SIEMON TYPICAL	ISO/IEC	SIEMON TYPICAL	ISO/IEC	SIEMON TYPICAL	ISO/IEC	SIEMON TYPICAL	ISO/IEC	SIEMON TYPICAL	ISO/IEC	SIEMON TYPICAL
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 for information only

All performance based on 100 meters

TERA S/FTP 1200 MHz 4-Pair Cable (EMEA)

COMPLIANCE

- ISO/IEC 11801:2002 (Category 7)
- ISO/IEC 11801 Amendment 1
- ISO/IEC 15018 BCT Channel Application
- IEC 61156-7:2003
- IEC 61156-5:2002 (Category 7)
- IEC 61156-5 Ed 2.0 (Category 7_A)
- LSOH: IEC 60332-1, IEC 60754, and IEC 61034

Part

9T7L4-E12LSOH (IEC 60332-1), Violet Jacket, 305m Reel

Description

CABLE CONSTRUCTION

- S/FTP
- 0.64mm (22 AWG) solid bare copper
- 8.4mm max jacket diameter
- Pairs individually shielded with aluminum-polyester foil
- Overall tinned copper braid



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% 250-1200 MHz: 100± 25%
NVP	80%
TCL	40-10 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

ISO/IEC

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*	1.6	78.0	105.0	75.0	102.0	76.1	103.4	73.1	100.4	77.0	96.0	75.0	94.0	20.0	31.0	536	512
4.0	3.5	3.0	78.0	105.0	75.0	102.0	74.6	102.0	71.6	99.0	77.0	96.0	75.0	94.0	23.0	34.0	518	494
10.0	5.4	4.9	78.0	105.0	75.0	102.0	72.6	100.1	69.6	97.1	74.0	96.0	71.0	94.0	25.0	35.0	511	487
16.0	6.8	6.3	78.0	105.0	75.0	102.0	71.2	98.7	68.2	95.7	70.0	96.0	66.9	94.0	25.0	35.0	509	485
20.0	7.6	7.0	78.0	105.0	75.0	102.0	70.4	98.0	67.4	95.0	68.0	96.0	65.0	94.0	25.0	35.0	508	484
31.25	9.6	8.9	78.0	105.0	75.0	102.0	68.5	96.1	65.5	93.1	64.0	93.0	61.1	91.0	23.6	33.6	506	482
62.5	13.7	12.8	78.0	105.0	75.0	102.0	64.3	92.2	61.3	89.2	60.0	88.0	55.1	86.0	21.5	31.5	505	481
100.0	17.5	16.5	76.0	105.0	73.0	102.0	58.5	88.5	55.5	85.5	54.0	82.0	51.0	80.0	20.1	30.1	504	480
200.0	25.3	23.5	71.5	102.0	68.5	100.0	46.2	78.5	43.2	76.5	48.0	78.0	45.0	75.0	18.0	28.0	503	479
250.0	28.5	28.2	70.0	102.0	67.0	100.0	41.5	73.8	38.5	71.8	46.0	75.0	43.0	70.0	17.3	27.3	502	458
300.0	31.5	28.9	68.8	102.0	65.8	97.0	37.3	73.1	34.3	68.1	44.0	70.0	41.5	68.0	17.3	27.3	502	502
350.0	34.3	31.5	67.8	100.0	64.8	97.0	33.6	68.5	30.6	65.5	43.0	70.0	40.1	63.0	17.3	27.3	502	478
400.0	36.9	33.1	67.0	95.0	64.0	93.0	30.1	61.9	27.1	59.9	42.0	66.0	39.0	59.0	17.3	27.3	502	478
550.0	44.1	40.2	64.9	95.0	61.9	93.0	20.8	54.8	17.8	52.8	39.0	60.0	36.2	56.0	17.3	27.3	502	478
600.0	46.3	41.7	64.3	95.0	61.3	93.0	18.0	53.3	15.0	51.3	38.0	55.0	35.4	53.0	17.3	27.3	501	478
800.0	54.5	47.6	62.5	90.0	59.5	87.0	7.9	42.4	4.9	39.4	36.0	47.0	32.9	44.0	16.1	27.3	501	477
1000.0	62.0	54.5	61.0	85.0	58.0	83.0	-1.0	30.5	-4.0	28.5	34.0	40.0	31.0	38.0	15.1	25.0	501	477
1200.0	69.0	59.8	59.8	80.0	56.8	77.0	-9.2	20.0	-12.2	17.2	32.0	35.0	29.4	33.0	16.3	24.0	501	477

*Values below 4 MHz are for information only

All performance based on 100 metres