

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 still 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 of bandwidth — exceeding Category 7_A/Class F_A specifications. This extra bandwidth supports demanding applications like 10GBASE-T and broadband video.



Siemon's patented **PowerGUARD** technology prevents plug and jack contact erosion due to arcing at the mated location when the plug is unmated under PoE load conditions.

Compact Design

Slim, compact design allows outlets to be side-stacked and inserted from either the front or rear of faceplates and patch panels

Bend Relief

Rear boot provides bend relief for cable exiting the plug and outlet

Fully Shielded

Terminates fully shielded (F/FTP and S/FTP) cable - virtually eliminates alien crosstalk

Shielded Termination

Connector automatically assures proper termination of cable shield — no additional processes required for grounding cable

Hinged Door

Outlets include a hinged door to prevent exposure to dust and other contaminants

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.

Application Sharing

TERA's ability to support multiple applications over a single 4-pair cable and outlet can save significant material and installation costs

Quadrant Isolation

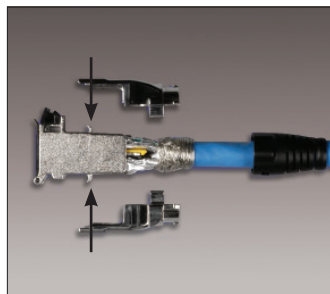
Shielded quadrant design fully isolates pairs for optimum NEXT performance



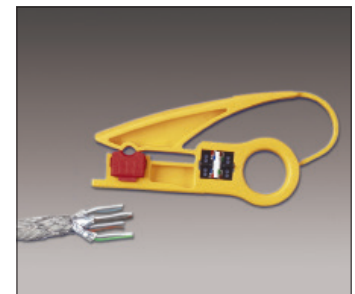
TERA patch cords are available in 1-, 2- and 4-pair options to support voice, video and data cable sharing applications; ideal for high density work area environments and intelligent building applications

STANDARDS COMPLIANCE

- ISO/IEC 11801-1 Ed 1.0
- ISO/IEC 15018
- IEC 61076-3-104
- IEC 60512-99-001 (3rd party verified)
- IEC 60603-7-71
- IEEE 802.3an
- IEEE 802.3af (Type 1)
- IEEE 802.3at (Type 2)
- IEEE 802.3bt (Type 3)
- IEEE 802.3bt (Type 4)
- Power over HDBaseT (PoH)
- UL/cUL
- ETL 7A Channel Verification Program
- Cable Sharing Compliant System
- TERA Channel Tempest Rated



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



CPT-T tool reduces preparation and termination time.



Product Information

Ordering Information

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 Number 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
T7F-01-2	TERA Outlet with black door, icon and boot, 26 AWG stranded cable



ELECTRICAL

Contact Resistance	20 mΩ
Input to Output Resistance - Single Contact	200 mΩ
Min. Dielectric Withstand Voltage (contact to contact)	1000 V DC or AC peak
Min. Dielectric Withstand Voltage	1500 V DC or AC peak
Insulation Resistance	500 MΩ
Backward Compatibility	to 5e, 6A and 7A
Power over Ethernet (PoE)	Suitable for PoE Type 1,2,3,4 and PoH

MECHANICAL - TERMINATION

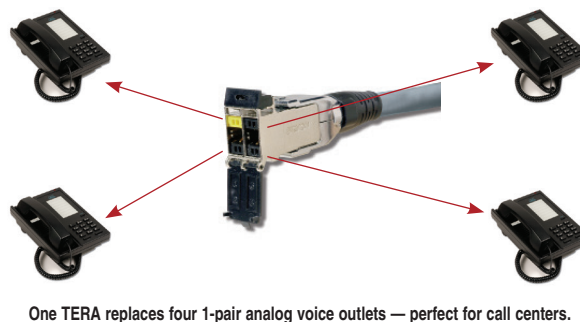
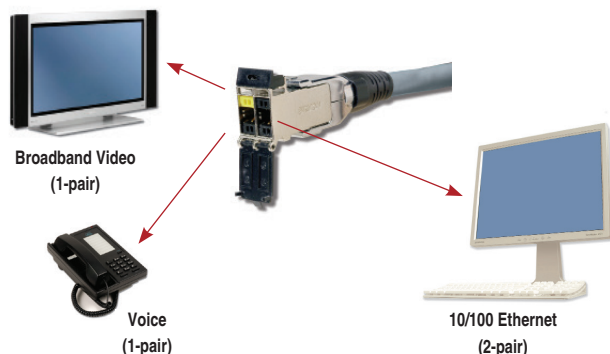
Wire Size Range (Nominal)	22-26 AWG Solid and Stranded
Wire Insulation Diameter Range (max)	1.58 mm (0.062 in.)
Conductor OD (max)	0.64 mm (0.025 in.)
Cable OD (max)	9 mm (0.354 in.)
Re terminations	Not recommended

MECHANICAL - OUTLET

Operating Temperature	-10 to 60° C, (14 to 140° F)
Flammability Rating	UL 94 V-0
Green Features	RoHS, lead-free, halogen-free, PVC free
Housing Materials	Diecast zinc alloy
Contact Materials	Plated phosphor bronze
Plastic Materials	Flame retardant themoplastic
Dimensions with boot (LxWxH)	64.2x14.5x24.3mm (2.5x.570x.95 in.)
Shielding	Quadrant design
Number of Plug Insertion Cycles	2500
Min Plug Retention Force	50N (11.24 lbf)
Plug Compatibility	IEC 61076-3-104

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.



Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.