

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.

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

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

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.

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

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

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

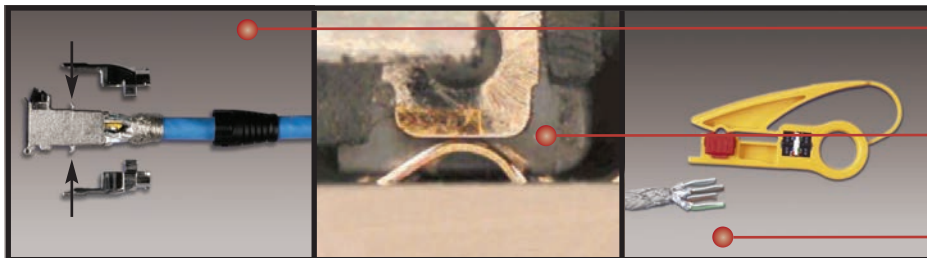
Hinged Door — Outlets include a hinged door to prevent exposure to dust and other contaminants

STANDARDS COMPLIANCE

- ISO/IEC 11801 Ed 2.2
- ISO/IEC 15018
- IEC 61076-3-104
- IEC 60512-99-001 (3rd party verified)
- IEC 60603-7-71
- IEEE 802.3an
- IEEE 802.3af (PoE)
- IEEE 802.3at (PoE+)
- UL/cUL
- ETL 7A Channel Verification Program
- Cable Sharing Compliant System
- TERA Channel Tempest Rated



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



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

Featuring Siemon's patented crowned jack contact geometry that improves electrical and mechanical performance and ensures that any jack or plug contact damage due to arcing caused by unmating under PoE load occurs well away from the final mated contact position.

CPT-T tool reduces preparation and termination time.

Product Information

CATEGORY 7A/CLASS FA PRODUCTS

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 7A 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

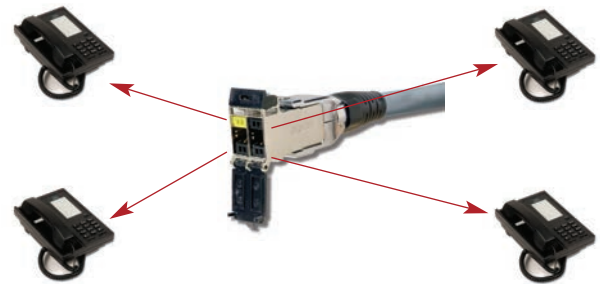
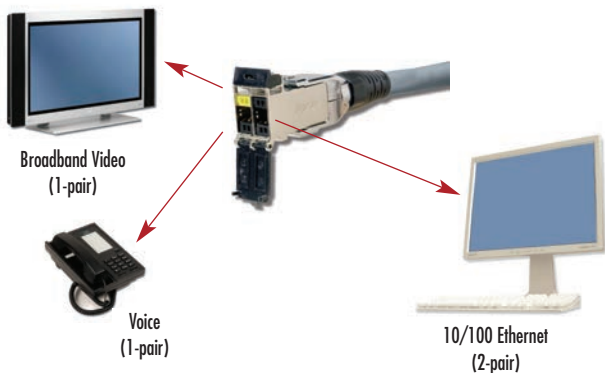
ELECTRICAL	
Contact Resistance	20 Ω
Input to Output Resistance - Signal Contact	200 Ω
Min. Dielectric Withstand Voltage (contact to contact)	1000 V DC or AC peak
Min. Dielectric Withstand Voltage	1500 V DC or AC peak
Insulation Resistance	500 Ω
Backward Compatibility	to 5e, 6 and 6A
Power over Ethernet (PoE)	Suitable for PoE and PoE+

MECHANICAL-TERMINATION	
Wire Size Range (nominal)	22-26 AWG solid and stranded
Wire Insulation Diameter Range (max)	1.58 mm (0.0622 in.)
Conductor OD (max)	0.64 mm (0.025 in.)
Cable OD (max)	9 mm (0.354 in.)
Reterminations	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 Material	Diecast zinc alloy
Contact Materials	Plated phosphor bronze
Plastic Materials	Flame retardant thermoplastic
Dimensions with boot (LxWxH)	64.2x14.5x24.3 mm (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.



One TERA replaces four 1-pair analog voice outlets — perfect for call centers.

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

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