TERA® Outlet

Chosen as an ISO/IEC 11801 Ed 2.2 interface for 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 bandwidth exceeding the performance of category 7_A/class F_A specifications. This extra bandwidth is critical in demanding applications such as broadband video, with an upper frequency requirement of 698 MHz. Broadband video, high speed data and voice applications can be supported simultaneously using a single 4-pair fully shielded (S/FTP) cable. TERA outlets can be used in both the work area and in the telecommunications room.

Fast and easy termination of category 7_A/class F_A fully shielded (S/FTP) cable

Slim, compact design allows outlets to be side-stacked and are compatible with all MAX® series mounting hardware

Fully shielded (S/FTP) cable and connector design eliminates alien crosstalk concerns

Shielded quadrant design fully isolates pairs for optimum performance

TERA's ability to share one 4-pair cable and outlet to support multiple 1- and 2- pair applications can save significant material and installation costs. Two Type 1 PoE 10/100BASE-T applications can be supported over one TERA as long as power is carried on the same conductors as the data (i.e. IEEE 802.3-2012 Alternative A)

TERA outlets and plugs assure proper termination of cable shield — no additional crimping or processes required for grounding cable

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

TERA connecting hardware ensures that critical contact seating surfaces are not damaged when unmated under remote powering current loads per IEC 60512-99-001.

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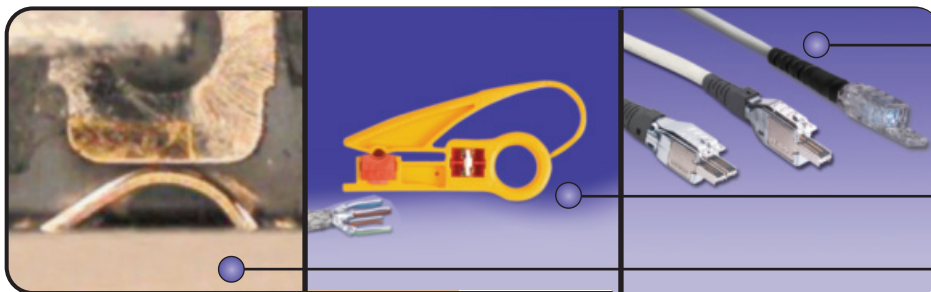
TERA patch cords are available in 1-, 2- and 4-pair options to support voice, video and data cable sharing applications; ideal for high density work area environments and intelligent building applications

CPT-T Tool reduces preparation and termination time to approximately three minutes

Contact Integrity — 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.

SIEMON™

Product Information

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-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 phospher 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

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

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$_A$/class F$_A$ cables. TERA outlets may be used in both the work area and in the telecommunications room.

T7F-01-1 ....TERA Outlet with black door, icon and boot, 22-24 AWG solid cable

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

For related product information request Spec Sheet(s):

TERA-MAX® Patch Panels (SS-TRAPP)
TERA Patch Cords (PROD-SS-TRAP)
TERA Video Cords (PROD-SS-TRAV)

SIEMON™