TERA® Category 8.2 Patch Cords

Regional Availability - Global

Part of the TERA 8.2 cabling solution, Siemon's Category 8.2 patch cords exceed ISO/IEC Category 8.2/Class II specifications when utilized in a 2-connector, 30-meter Class II channel. TERA Class II channels and permanent links deliver transmission performance up to 2 GHz to support high-speed 25 Gigabit and 40 Gigabit ethernet in data center applications. In conjunction with Category 8.2 cable and TERA-MAX® patch panels populated with TERA outlets, the Category 8.2 TERA-to-RJ45 patch cords are ideal for 2-connector switch-to-server connections in middle of row (MoR) and end of row (EoR) data center configurations. The Category 8 compatible RJ45-to-RJ45 patch cords are ideal in direct attach switch-to-server connections used in top of rack (ToR) configurations. Constructed of Category 8.2 S/FTP 2000 MHz cable, TERA Category 8.2 patch cords are backwards compatible with Category 7A/Class FA and lower cabling systems.

High Performance Cable
Cords feature Category 8.2 S/FTP stranded cable for optimal transmission performance while eliminating alien crosstalk

Standards-Compliant Interface
Recognized with ISO/IEC 11801-1 Ed. 1.0

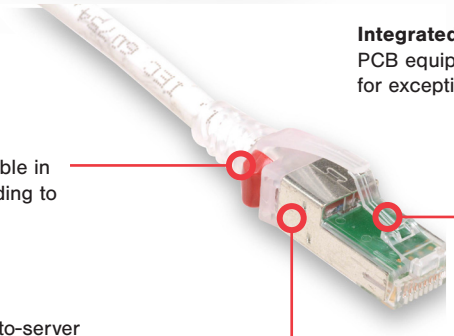
STANDARDS COMPLIANCE

- ISO/IEC 11801-1 Ed 1.0
- IEC-61156
- IEC 60603-7
- IEC 61076-3-104

APPLICATION SUPPORT

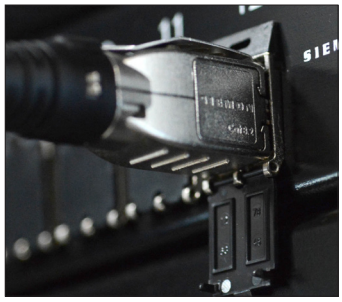
- 10BASE-T to 40GBASE-T
- IEEE 802.3af (Type 1 PoE)
- IEEE 802.3at (Type 2 PoE)
- IEEE 802.3at (Type 3 and Type 4)
- IEEE 802.3bt (Type 3 and Type 4)
- Power over HDBaseT (POH)

Integrated PCB
PCB equipped plug optimizes signal for exceptional transmission

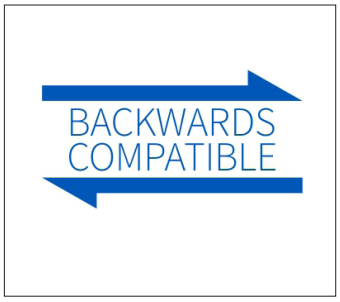


Easy Color Coding
Removable color clips available in 9 colors allow field color coding to distinguish applications

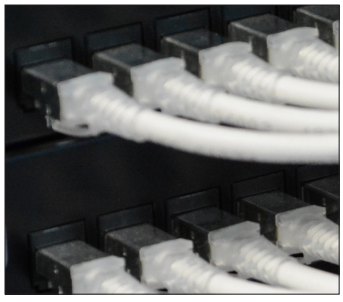
Category 8.2 Patching
Ideal in direct attach switch-to-server connections used in top of rack (ToR) configurations



Modular Patching
The TERA 8.2 cords can be used in conjunction with TERA outlets that snap easily into TERA-MAX panels with integrated grounding.



Future Proof Backwards Compatible
Supports autonegotiation for current 10 Gig to future 25/40 Gig speeds.



RJ45 Interface
TERA to RJ45 patch cords allow the TERA Category 8.2 system to be easily connected to RJ45-equipped active electronics.

SIEMON™

Product Information

PERFORMANCE SPECIFICATIONS

CORD ASSEMBLY

Wiring	T568A/B as specified by part #
Operating Temperature	-20 to 70 °C (-4 to 158 °F)
Remote Powering	PoE Type 1, 2, 3, 4, UPoE, PoH
Green Features	RoHS, lead-free, halogen-free, PVC free
Plastic Materials	Flame retardant thermoplastic

CABLE

Wire Size Range (Nominal)	26 AWG Stranded bare copper
Construction	S/FTP
Cable OD (Nominal)	6.3mm (0.25 in)
Jacket type	CM/LSOH
Bend Radius	2.52mm (0.1 in.)

TERA PLUG SPECIFICATIONS

Number of Insertion Cycles	2500
Minimum Mating/Unmating Force	20N (4.5 lbf)
Cable to Plug Tensile Strength (min)	50N (11.24 lbf)
Mated Contact Resistance	20 mΩ
Input to Output DC Resistance	200 mΩ (signal conductors), 100 mΩ (shield)
Insulation Resistance (min)	500 MΩ
Minimum Dielectric Withstand Voltage	1000 VAC contact to contact, 1500 VDC contact to shield
Transfer Impedance	100mΩ @ 10 MHz
Current Rating @ 25°C (77°F)	1.5 A
Flammability Rating	Contact Holder: UL94-V0, Plug Boot: UL-HB
Contact Material	Copper alloy with 50 microinches gold plating or equivalent
Plug Housing Material	Zinc Diecast, Nickel Plating

RJ-45 PLUG SPECIFICATIONS

Number of Insertion Cycles	2500
Minimum Mating/Unmating Force	30N (6.7 lbf)
Cable to Plug Tensile Strength (min)	50N (11.24 lbf)
Mated Contact Resistance	20 mΩ
Input to Output DC Resistance	200 mΩ (signal conductors), 100 mΩ (shield)
Insulation Resistance (min)	500 MΩ
Minimum Dielectric Withstand Voltage	1000 VAC contact to contact, 1500 VDC contact to shield
Transfer Impedance	200mΩ @ 10 MHz
Current Rating @ 25°C (77°F)	1.5 A
Flammability Rating	UL94-V0
Contact Material	Copper alloy with 50 microinches gold plating or equivalent
Plug Housing Material	Polycarbonate
Screen	360 degree enclosure around plug body

Ordering Information

T48(X)-S(XX)M-02 ---------- Category 8.2 Compatible TERA to RJ-45 modular plug, CM/LSOH cable, white jacket with matching TERA boot

Wiring
A = T568B
T = T568A

Cord Length
01 = 1 meter
02 = 2 meter
03 = 3 meter
05 = 5 meter

DA8-S(XX)M-02 ---------- Category 8.2 Compatible RJ-45 to RJ-45 modular plug, CM/LSOH cable, T568A/B wiring, white jacket with clear boot

Cord Length
01 = 1 meter
02 = 2 meter
03 = 3 meter
05 = 5 meter

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

Clip Color

01 = Black	**04 =** Gray	**07 =** Green
02 = White	**05 =** Yellow	**08 =** Violet
03 = Red	**06 =** Blue	**09 =** Orange

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

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