

# Category 8.1 STP Keystone Jack 25G/40G

Category 8.1 Shielded Twisted Pair Tool-less

The Infinique Category 8.1 Shielded Modular Jack is an important component of the Infinique 25/40 Gigabit Ethernet ((25GBASE-T / 40GBASE-T) Cabling Solution. It is ideal for data transmissions at very high speeds of 2000 Mhz and suitable for both current and future high bandwidth applications.

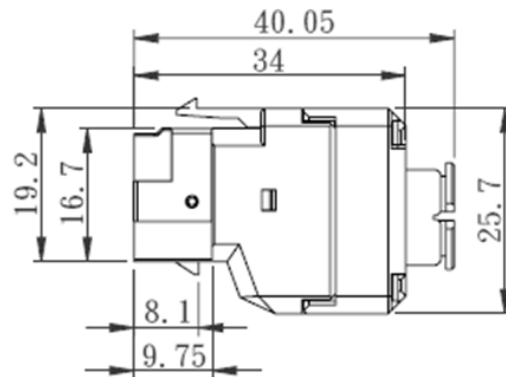
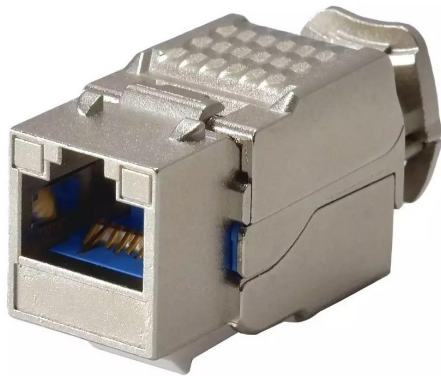
Infinique's Category 8.1 Shielded Modular jacks when installed as part of the Category 8.1 channel or permanent link, complies to IEEE 802.3bq standards requirements for 40GBASE-T performance, Class I performance according to ISO/IEC 11801 and Category 8.1 performance according to TIA/EIA 568.2-D.

Fully shielded design of the modular jack optimizes shield effectiveness protection from EMI and alien crosstalk. Its rear shield protects IDC terminations and maintains shield effectiveness. They are backwards compatible with Cat.7, Cat.6A, Cat.6 and Cat.5e components.

## Features and Benefits

- Certification**  
 ETL Verified for performance as per ANSI/TIA-568.2-D and ISO/IEC 11801 Category 8.1 standards
- Reliable Performance**  
 Electrical performance guaranteed to meet or exceed the channel specifications of TIA/EIA 568.2-D and ISO/IEC 11801 of Category 8.1
- Superior Design**  
 Stainless Steel Zinc Alloy Nickel Plated Housing for EMI, RFI and Crosstalk prevention, Phosphor Bronze with 50µ" Gold contacts, 750 Mating Cycles, Dust Cover and Strain Relief UL-94V0, RoHS Compliant
- Performance Warranty**  
 Qualifies for the Infinique's 25 Years System Performance Link Warranty

## KEYSTONE JACK CONSTRUCTION



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### ELECTRICAL SPECIFICATIONS

Current Rating	1.5Amp max
Dielectric Strength	1000 V, AC RMS, 60 Hz/1min
Contact Resistance	20 mohm
Insulation Resistance	500 Mohm
Voltage Rating	150 VAV max
Temperature	-40°C ~ 70°C

### MATERIAL SPECIFICATIONS

RJ45 8-Pin Connector	FCC part 68, subpart F and IEC-60603-7 Compliant
Jack Contacts	Phosphor Bronze with 50µ" Gold over 100µ" Nickel Undercoat
IDC Plastic	PC, UL-94V0
IDC Contact	Phosphor Bronze, Tin over Nickel Undercoat
Terminations	Terminates 22~26 AWG
Insulation Diameter	0.70~1.40 mm
Insertion Life	750 Mating Cycles
Contact Force	100 grams with FCC Compliant 8P Plug
Plug Retention Force	11 LBF Min.
Durability	30 Termination Cycles
Jack Housing	Stainless Steel, Zinc Alloy Nickel Plated
Dust Cover and Strain Relief	Polycarbonate, UL94V.0

### STANDARDS/COMPLIANCE

Meets TIA/EIA 568.2-D Category 8.1 with the applicable electrical transmission characteristics  
Meets TIA/EIA TSB-40 requirements  
Meets ISO/IEC Generic Cabling Standard 11801:2002 ed.2.0  
Meets CENELEC Generic Cabling Standard EN50173 – 1:2002  
RoHS Compliant

### TYPICAL APPLICATIONS

25GBASE-T / 40GBASE-T 2000 Mhz Data Centre Application  
10GBASE-T 10 Gigabit Ethernet, 1000BASE-T, 1000BASE-TX Gigabit Ethernet  
100BASE-TX Fast Ethernet / 10BASE-TX Ethernet  
PoE IEEE 802.3af Type 1 to 802.3bt Type 4  
Token Ring, 155 Mbps ATM  
Composite Video, 622 Mbps ATM

### ORDERING INFORMATION

Part Number	Description
INKJ81T90S	Infinique Category 8.1 Shielded 90 Degree Tool-less Keystone Jack, Stainless Steel

Delivery: One Modular Jack and One Strain Relief per bag.  
Packaging: 1) Bag - 1 Jack; 2) Carton - 50 Jacks



Infinique, a Canadian company is a manufacturer of high performing end-to-end solutions in copper, fiber and video surveillance systems. For more information visit our website at [www.infinique.com](http://www.infinique.com) or email us at [sales@infinique.com](mailto:sales@infinique.com).