

# Cat6 90° Punch Down Keystone Jack

Component Level Rated •  
500MHz • 4PPoE • Suitable for  
Unshielded Ethernet Cable



## Key Features

- Component Level Rated and Impedance Matching for Superior Cat6 Performance
- Press Fit Technology for Maximum Reliability
- ANSI/TIA 568 2.D Certified with trueCABLE Cat6 U/UTP Ethernet Cable
- UL, cETLus, CE, TAA, FCC, ETL Verified to IEC 60512-99-001, and RoHS-2 Compliant
- Supports PoE++ (802.3bt) 4PPoE, up to 100W

## Fitment

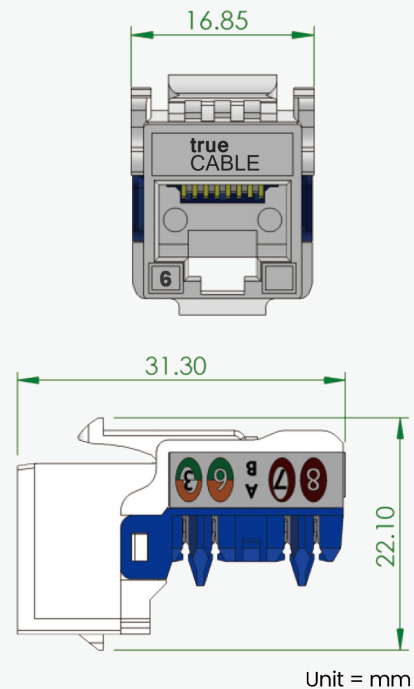
Conductor Type	Solid & Stranded Copper
Suitable Conductor Gauge	23 to 26 AWG
Conductor Insulation Diameter	0.86 - 1.20mm
Cable Jacket Diameter	4.60 - 9.00mm

## Electrical

Contact Resistance	<20mΩ
Insulation Resistance	>500MΩ
Current Rating	1.5A @ 20°C
Dielectric Strength	>1000VDC

## Tested Compatible Tools

Product	Part Number
EZ Term Keystone Jack Tool	trueTERM
110 Impact Tool	trueIMPACT
Keystone Jack Punch Down Stand	truePUCK



## Construction & Mechanical

Jack Type	90° 110 Punch Style
Jack Housing Material	ABS Plastic
Fire Safety	UL 94V-0
IDC Housing Material	Polycarbonate
IDC Terminals	Phosphor Bronze with 100μ Nickel Plating

Re-termination Durability Rating	20 Termination Cycles
RJ45 Insertion Durability Rating	750 Connection Cycles
Operating Temperature	-4°F to 140°F   -20°C to 60°C
RJ45 Spring Wire	Phosphor Bronze with 60μ Nickel Undercoat and 50μ Gold Plating

# Application

Standards Compliance	TIA Category 6 and ISO/IEC 11801 Class E Certified
Maximum Application Speed	100BASE-TX to 5GBASE-T up to 295ft; 10GBASE-T up to 165ft
PoE Compatibility	PoE/PoE+/PoE++ (IEEE 802.3af/at/bt) 4PPoE up to 100W
Maximum PoE DC Wattage	100W
Installation Environment	For unshielded (U/UTP) cable only
Wiring Schema	T568A or T568B with color coding diagram on jack housing



## Cable ID: 6ECMPGRN PD KSJ TO PD KSJ 09/20

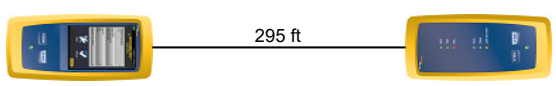
Test Limit: TIA Cat 6 Perm. Link (+PoE)  
 Limits Version: V7.5  
 Date / Time: 09/18/2020 08:14:39 AM  
 Operator: DON S  
**Headroom 7.0 dB (NEXT 1,2-4,5)**  
 Cable Type: Cat 6 U/UTP  
 NVP: 71.7%

Main: Versiv  
 S/N: 1917273  
 Software Version: V6.5 Build 5  
 Calibration Date: 11/08/2019  
 Adapter: DSX-8000 (DSX-PLA804)  
 S/N: 4523168

## Test Summary: PASS

Remote: Versiv  
 S/N: 1924100  
 Software Version: V6.5 Build 5  
 Calibration Date: 11/08/2019  
 Adapter: DSX-8000R (DSX-PLA804)  
 S/N: 4523169

Length (ft), Limit 295	[Pair 7,8]	295
Prop. Delay (ns), Limit 498	[Pair 4,5]	436
Delay Skew (ns), Limit 44	[Pair 4,5]	18
Resistance (ohms), Limit 21.00	[Pair 4,5]	13.77
Resist. Unbal. (ohms), Limit 0.400	[Pair 1,2]	0.036
Resist. P2P Unbal. (ohms), Limit 0.480	[Pair 1,2-4,5]	0.093
Insertion Loss Margin (dB)	[Pair 3,6]	2.9
Frequency (MHz)	[Pair 3,6]	249.5
Limit (dB)	[Pair 3,6]	31.1



### Worst Case Margin Worst Case Value

	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	1,2-4,5	3,6-7,8	1,2-3,6	1,2-4,5
<b>NEXT (dB)</b>	7.0	9.2	9.3	11.1
Freq. (MHz)	24.8	26.6	221.5	237.0
Limit (dB)	51.6	51.1	36.2	35.7
Worst Pair	1,2	3,6	4,5	4,5
<b>PS NEXT (dB)</b>	7.3	9.5	9.5	11.0
Freq. (MHz)	24.9	4.4	220.0	248.5
Limit (dB)	49.1	61.2	33.6	32.7

	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	7,8-1,2	1,2-7,8	7,8-1,2	1,2-7,8
<b>ACR-F (dB)</b>	5.8	5.9	6.1	5.9
Freq. (MHz)	241.5	250.0	250.0	250.0
Limit (dB)	16.5	16.2	16.2	16.2
Worst Pair	1,2	1,2	1,2	7,8
<b>PS ACR-F (dB)</b>	7.8	8.0	7.8	8.2
Freq. (MHz)	241.5	204.0	241.5	250.0
Limit (dB)	13.5	15.0	13.5	13.2

	MAIN	SR	MAIN	SR
<b>N/A</b>				
Worst Pair	1,2-4,5	3,6-4,5	1,2-3,6	1,2-3,6
<b>ACR-N (dB)</b>	7.7	9.7	14.0	14.2
Freq. (MHz)	24.8	4.4	243.5	240.5
Limit (dB)	42.8	59.8	4.9	5.2
Worst Pair	1,2	3,6	3,6	4,5
<b>PS ACR-N (dB)</b>	8.0	9.8	14.3	14.0
Freq. (MHz)	24.9	4.4	250.0	248.5
Limit (dB)	40.3	57.5	1.6	1.8

	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	4,5	4,5	7,8	4,5
<b>RL (dB)</b>	8.5	7.4	12.7	13.9
Freq. (MHz)	3.8	3.8	172.0	211.0
Limit (dB)	21.0	21.0	11.6	10.8

Compliant Network Standards:  
 10BASE-T 100BASE-TX 100BASE-T4  
 1000BASE-T 2.5GBASE-T 5GBASE-T  
 ATM-25 ATM-51 ATM-155  
 100VG-AnyLan TR-4 TR-16 Active  
 TR-16 Passive

