

# Cat6A 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 Cat6A Performance
- Press Fit Technology for Maximum Reliability
- ANSI/TIA 568 2.D Certified with trueCABLE Cat6A 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

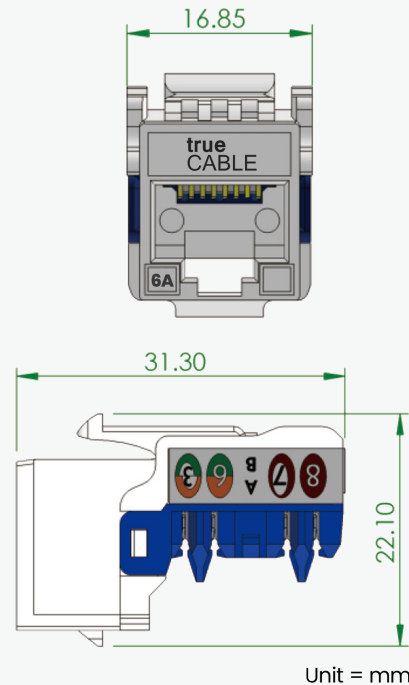
Conductor Type	Solid & Stranded Copper
Suitable Conductor Gauge	23 to 26 AWG
Conductor Insulation Diameter	0.86 - 1.20mm
Cable Jacket Diameter	4.60 - 9.00mm

## 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 6A and ISO/IEC 11801 Class EA Certified
Maximum Application Speed	10GBASE-T up to 295ft
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: 6ACMR U/UTP PD KSJ > UTP STD LB CAT6/6A RJ45

Test Limit: TIA Cat 6A MPTL (+PoE)

Limits Version: V7.5

Date / Time: 05/31/2021 11:21:53 AM

Operator: DON S

Headroom 7.8 dB (NEXT 3,6-7,8)

Cable Type: Cat 6A U/UTP

NVP: 69.1%

Main: Versiv

S/N: 1924100

Software Version: V6.5 Build 5

Calibration Date: 11/14/2020

Adapter: DSX-8000 (DSX-PLA804)

S/N: 4523168

## Test Summary: PASS

Remote: Versiv

S/N: 1917273

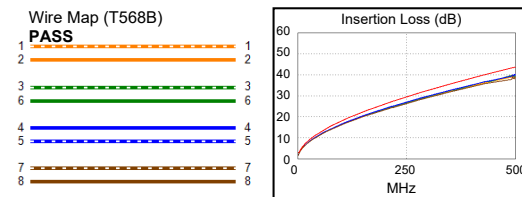
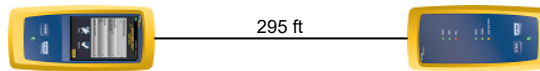
Software Version: V6.5 Build 5

Calibration Date: 11/14/2020

Adapter: DSX-8000R (DSX-PC6A)

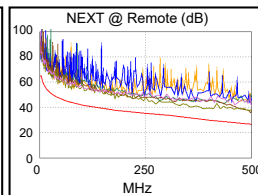
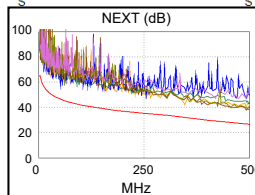
S/N: 4716155

Length (ft), Limit 295	[Pair 7,8]	295
Prop. Delay (ns), Limit 498	[Pair 4,5]	462
Delay Skew (ns), Limit 44	[Pair 4,5]	28
Resistance (ohms)	[Pair 4,5]	13.15
Resist. Unbal. (ohms)	[Pair 1,2]	0.099
Resist. P2P Unbal. (ohms)	[Pair 4,5-7,8]	0.141
Insertion Loss Margin (dB)	[Pair 4,5]	3.4
Frequency (MHz)	[Pair 4,5]	498.0
Limit (dB)	[Pair 4,5]	43.6

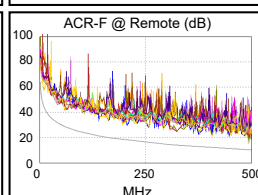
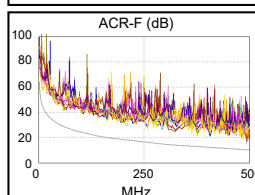


### Worst Case Margin Worst Case Value

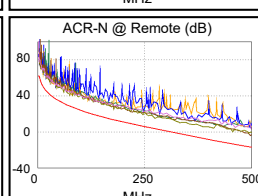
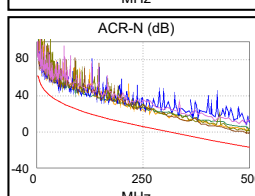
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	1,2-3,6	3,6-7,8	3,6-4,5	3,6-4,5
<b>NEXT (dB)</b>	10.3	7.8	11.0	9.2
Freq. (MHz)	347.0	383.0	492.0	497.0
Limit (dB)	31.9	30.5	26.9	26.7
Worst Pair	3,6	3,6	3,6	3,6
<b>PS NEXT (dB)</b>	10.3	8.9	10.5	9.8
Freq. (MHz)	347.0	274.0	492.0	497.0
Limit (dB)	29.2	32.0	24.0	23.8



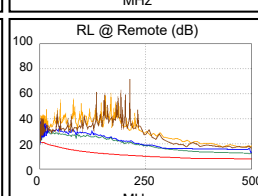
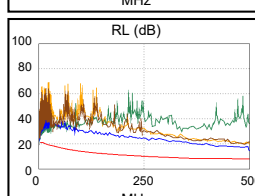
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
<b>ACR-F (dB)</b>	7.7	8.0	7.7	8.0
Freq. (MHz)	492.0	492.0	492.0	492.0
Limit (dB)	10.4	10.4	10.4	10.4
Worst Pair	3,6	4,5	3,6	4,5
<b>PS ACR-F (dB)</b>	10.5	10.5	10.5	10.7
Freq. (MHz)	492.0	492.0	492.0	499.0
Limit (dB)	7.4	7.4	7.4	7.2



	MAIN	SR	MAIN	SR
<b>N/A</b>				
Worst Pair	1,2-7,8	3,6-7,8	3,6-4,5	3,6-4,5
<b>ACR-N (dB)</b>	12.7	11.2	15.2	12.7
Freq. (MHz)	51.8	187.0	498.0	497.0
Limit (dB)	33.7	12.3	-16.9	-16.9
Worst Pair	3,6	3,6	3,6	3,6
<b>PS ACR-N (dB)</b>	13.4	11.5	14.0	13.7
Freq. (MHz)	347.0	168.0	492.0	497.0
Limit (dB)	-6.2	11.9	-19.3	-19.7



	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	3,6	3,6	4,5	3,6
<b>RL (dB)</b>	6.1	3.8	6.5	3.8
Freq. (MHz)	3.8	479.0	499.0	479.0
Limit (dB)	21.0	8.0	8.0	8.0



Compliant Network Standards:

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