

# Cat5e 90° Toolless Shielded Keystone Jack

Component Level Rated •  
250MHz • 4PPoE • Suitable for  
Shielded Ethernet Cable



## Key Features

- Component Level Rated and Impedance Matching for Superior Cat5e Performance
- Press Fit Technology for Maximum Reliability
- UL, cETLus, CE, TAA, FCC, ETL Verified to IEC 60512-99-001, and RoHS-2 Compliant
- ANSI/TIA 568 2.D Certified with trueCABLE Cat5e F/UTP Ethernet Cable
- Supports PoE++ (802.3bt) 4PPoE, up to 100W

## Fitment

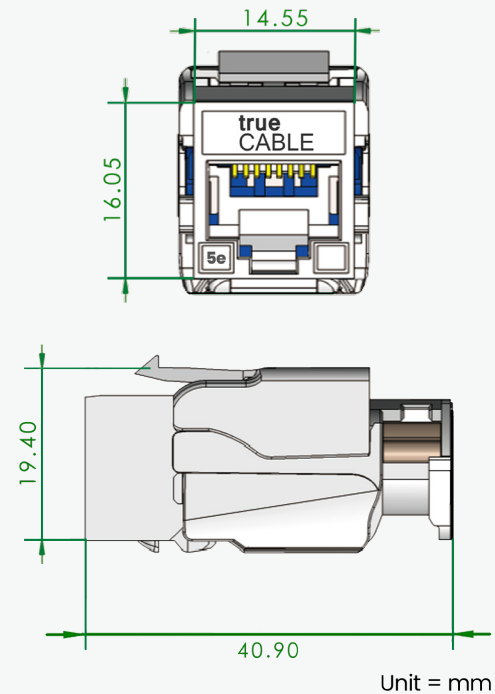
Conductor Type	Solid & Stranded Copper
Suitable Conductor Gauge	23 - 26 AWG
Conductor Insulation Diameter	0.86 - 1.47mm
Cable Jacket Diameter	5.00 - 9.90mm

## Electrical

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

## Tested Compatible Tools

Product	Part Number
Parallel Crimping Pliers	trueCLOSE
Conductive Copper Fabric Strips	CUStrips_100pc

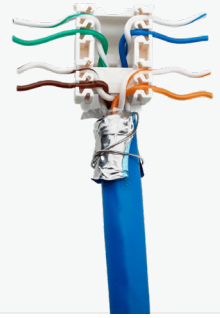


## Construction & Mechanical

Jack Type	90° Hinged Toolless Style	Re-termination Durability Rating	20 Termination Cycles
Jack Housing Material	Nickel Plated Zinc Alloy	RJ45 Insertion Durability Rating	750 Connection Cycles
Fire Safety	UL 94V-0	Operating Temperature	14°F to 140°F   -10°C to 60°C
Conductor Holder Material	Polycarbonate	RJ45 Spring Wire	Phosphor Bronze with 60μ Nickel Undercoat and 50μ Gold Plating
IDC Terminals	Phosphor Bronze with 100μ Nickel Plating		

# Application

Standards Compliance	TIA Category 5e and ISO/IEC 11801 Class D Certified
Maximum Application Speed	100BASE-TX to 2.5GBASE-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 shielded (F/UTP, S/FTP, F/FTP) cable only
Wiring Schema	T568A or T568B with color coding diagram on conductor holder cap



## Cable ID: 5ESCMR 06/21 STP JACK > JACK

Test Limit: TIA Cat 5e Perm. Link (+PoE)

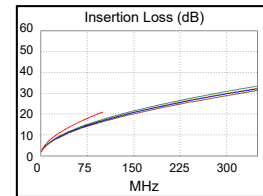
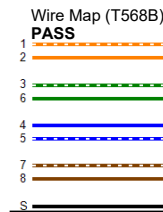
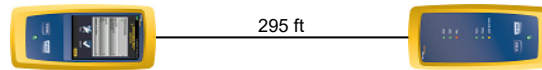
Limits Version: V7.6  
Date / Time: 04/11/2022 08:58:04 AM  
Operator: DON S  
Headroom 4.9 dB (NEXT 1,2-7,8)  
Cable Type: Cat 5e F/UTP  
NVP: 68.1%

Main: Versiv  
S/N: 1924100  
Software Version: V6.7 Build 1  
Calibration Date: 11/14/2020  
Adapter: DSX-8000 (DSX-PLA804)  
S/N: 4523169

## Test Summary: PASS

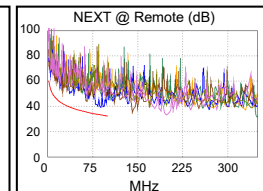
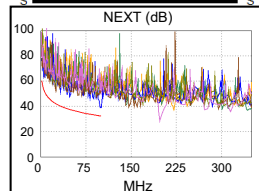
Remote: Versiv  
S/N: 1917273  
Software Version: V6.7 Build 1  
Calibration Date: 11/14/2020  
Adapter: DSX-8000R (DSX-PLA804)  
S/N: 4523168

Length (ft), Limit 295	[Pair 7,8]	295
Prop. Delay (ns), Limit 498	[Pair 3,6]	462
Delay Skew (ns), Limit 44	[Pair 3,6]	22
Resistance (ohms), Limit 21.00	[Pair 3,6]	16.69
Resist. Unbal. (ohms), Limit 0.500	[Pair 3,6]	0.045
Resist. P2P Unbal. (ohms), Limit 0.570	[Pair 3,6-7,8]	0.173
Insertion Loss Margin (dB)	[Pair 3,6]	3.6
Frequency (MHz)	[Pair 3,6]	100.0
Limit (dB)	[Pair 3,6]	21.0

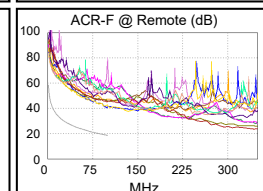
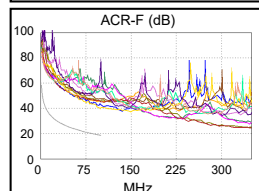


### Worst Case Margin Worst Case Value

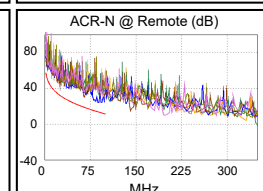
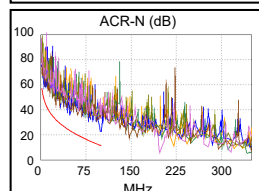
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	1,2-7,8	1,2-7,8	1,2-7,8	1,2-7,8
<b>NEXT (dB)</b>	6.5	4.9	6.5	4.9
Freq. (MHz)	98.8	88.0	98.8	88.0
Limit (dB)	32.4	33.2	32.4	33.2
Worst Pair	1,2	1,2	1,2	1,2
<b>PS NEXT (dB)</b>	9.1	7.6	9.1	7.6
Freq. (MHz)	98.8	88.0	98.8	88.0
Limit (dB)	29.4	30.2	29.4	30.2



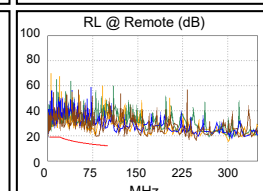
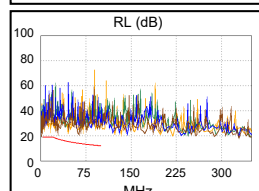
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	7,8-1,2	1,2-7,8	7,8-1,2	1,2-7,8
<b>ACR-F (dB)</b>	21.0	21.6	21.1	21.7
Freq. (MHz)	98.3	98.3	98.5	98.5
Limit (dB)	18.8	18.8	18.7	18.7
Worst Pair	1,2	1,2	1,2	7,8
<b>PS ACR-F (dB)</b>	23.2	24.3	23.3	24.4
Freq. (MHz)	98.3	95.0	98.5	98.3
Limit (dB)	15.8	16.1	15.7	15.8



	MAIN	SR	MAIN	SR
<b>N/A</b>				
Worst Pair	1,2-7,8	1,2-7,8	1,2-7,8	1,2-7,8
<b>ACR-N (dB)</b>	10.7	9.1	11.1	9.1
Freq. (MHz)	5.0	88.0	98.8	88.0
Limit (dB)	48.9	13.7	11.6	13.7
Worst Pair	1,2	1,2	1,2	1,2
<b>PS ACR-N (dB)</b>	13.1	11.2	13.2	11.2
Freq. (MHz)	98.8	88.0	99.0	88.0
Limit (dB)	8.6	10.7	8.5	10.7



	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	7,8	7,8	7,8	7,8
<b>RL (dB)</b>	5.8	5.5	6.7	5.5
Freq. (MHz)	28.5	81.5	63.3	81.5
Limit (dB)	17.5	12.9	14.0	12.9



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