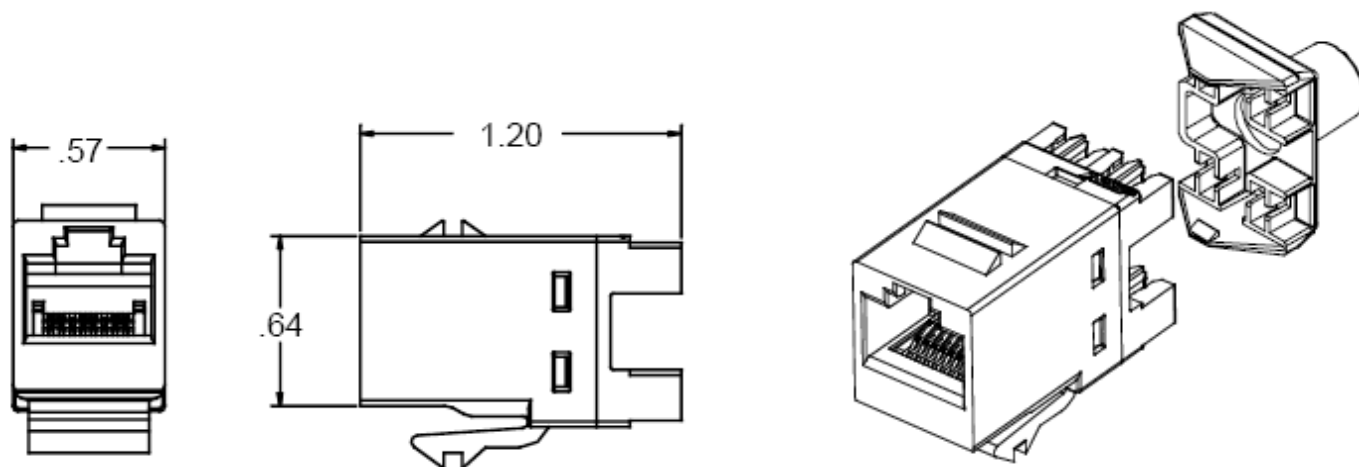


# SL Series 110Connect Category 5E Jacks



1375191-X, 1375190-X, 1375189-1, 1479717-1



## Description

AMP NETCONNECT Category 5E SL Series 110Connect Modular Jacks exceed TIA/EIA-568-B.2, TIA/EIA 568-C and ISO/IEC 11801 requirements for Enhanced Category 5/Class D component performance, EIA-364, IEC 60068, IEC 60512 and ASTM D4566-98. The AMP NETCONNECT Enhanced Category 5 System complies with all of the performance requirements for current and proposed applications such as Gigabit Ethernet (1000BASE-T), 10 and 100BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog and digital video, and analog and digital voice (VoIP). Modular Jacks have a slim profile and are compatible with SL Series and 110Connect faceplates. Universal wiring labels permit termination to either T568A or T568B wiring patterns. The modular jacks are available with and without integral dust covers and in a shielded version as well. Cables may be dressed at either 180° (rear) or 90° (either side) for added flexibility; shielded Modular Jacks have special shields to support this option. Patented bend-limiting strain relief may also be used to reduce stress on cable at point of termination and is included with each unshielded Modular Jack. SL Series 110Connect Modular Jacks are available in almond, black, white, gray, orange, blue, red, yellow, green, violet, and electrical ivory (see part number table for color samples).

## Specification (text in brackets [ ] requires a choice)

Modular jacks shall be un-keyed, [unshielded or shielded], 4-pair, RJ-45, and shall fit in a .790" X .582" opening. Modular jacks shall terminate using 110-style pc board connectors, each modular jack shall be wired to [T568A or T568B]. The 110-style insulation displacements connectors (IDC) shall be capable of terminate 22-24 AWG solid or 24-26 AWG stranded conductors. The insulation displacement contacts shall be paired, with additional space between pairs, to improve crosstalk performance. Modular jacks shall utilize a secondary PC board, separate from the signal path, for crosstalk compensation. Each modular jack shall meet the [TIA/EIA-568-C.2, Enhanced Category 5 or ISO/IEC 11801 Class D] performance standards and the requirements listed in the following table.

[include Performance Characteristics table from page 2]

Modular Jacks shall be compatible with AMP NETCONNECT SL Series Termination Tool part number 1725150-1. Each modular jack shall be provided with a bend-limiting strain relief. The strain relief shall provide cylindrical support to limit the bend radius at the point of termination. [Each jack shall incorporate an integral, hinged dust cover]. Modular jacks shall be UL Listed under file number E81956. Modular jacks shall be AMP NETCONNECT part number [1375191-X, 1375190-X, 1375189-1 or 1479717-1 (X denotes color, see part number table)] and be [almond, black, white, gray, orange, blue, red, yellow, green, violet, or electrical ivory] in color.

## Part Numbers

Description	Wiring Pattern		Part Number
Category 5E SL Series 110Connect Modular Jacks	T568A/T568B	Unshielded	1375191-X
		With Dust Cover	1375190-X
	T568A/T568B	Shielded	1375189-1*
		90° (Side) Entry Shield	1479717-1*

X denotes color: -1 = Almond, -2 = Black, -3 = White, -4 = Gray, -5 = Orange, -6 = Blue, -7 = Red, -8 = Yellow, -9 = Green, 1- -0 = Violet, 1- -1 = Electrical Ivory

NOTE: Shielded Modular Jacks are available in black only and do not accept strain relief

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## Worst-Case Performance Characteristics (exceed TIA/EIA 568-C.2 and ISO/IEC Class D requirements)

Frequency, MHz	Insertion Loss, dB		Return Loss, dB		NEXT, dB		FEXT, dB	
	Spec	AMP	Spec	AMP	Spec	AMP	Spec	AMP
1	0.1	0.01	30	58.3	65.0	87.3	65.0	86.6
4	0.1	0.02	30	48.8	65.0	76.6	63.1	76.1
8	0.1	0.03	30	43.7	64.9	70.7	57.0	70.5
10	0.1	0.02	30	42.2	63.0	69.1	55.1	68.9
16	0.2	0.1	30	38.5	58.9	64.8	51.0	65.3
20	0.2	0.08	30	36.7	57.0	63.0	49.1	63.5
25	0.2	0.06	30	35.0	55.0	61.1	47.1	61.7
31.25	0.2	0.04	30	33.1	53.1	58.9	45.2	60.0
62.5	0.3	0.06	24	27.5	47.1	52.6	39.2	54.7
100	0.4	0.08	20	24.0	43.0	47.6	35.1	51.0
155	-	0.2	-	20.2	-	40.2	-	41.3
200	-	0.3	-	18.0	-	37.4	-	39.1
250	-	0.4	-	16.0	-	35.0	-	37.1
300	-	0.3	-	14.5	-	33.5	-	35.6
350	-	0.3	-	13.1	-	32.1	-	34.2

## Technical Details

Materials	
Modular Jack Housing –	Polycarbonate, 94V-0 rated
110 Connecting Blocks –	Polycarbonate, 94V-0 rated
Contacts –	Beryllium copper, plated with 1.27µm [50µin] thick gold in localized area and 3.81µm [150µin] minimum thick nickel under plate
Insulation Displacement Contacts –	Phosphorous bronze, plated with 3.81µm [150µin] minimum thick bright tin-lead over 1.27µm [50µin] minimum thick nickel under plate
Integral Dust Cover –	Polycarbonate
Shield –	Copper zinc alloy 260, pre-plated with bright nickel
Strain Relief –	Polycarbonate
Electrical Characteristics	
Modular Jack –	750 mating cycles
110 Contacts –	200 terminations
Pull Force –	20lbs (89N)
Voltage –	150VAC max
Operating Temperature –	-40° – 70°C (-40° – 158°F)
Contact resistance –	20 milliohms maximum
Insulation Resistance –	500 Meg ohms minimum
Voltage proof –	1000VAC, IEC 60512-4-1
Vibration Test –	IEC 60512-6-4
Approvals	
UL File Number E81956, CSA	
RoHS Compliant	
FCC PART 68 SUBPART F	

Specifications subject to change without notice.

Revised 09/11

<http://www.ampnetconnect.com/thailand>

