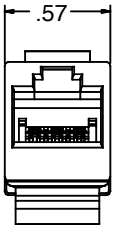
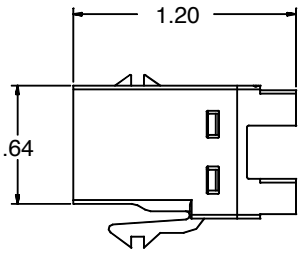
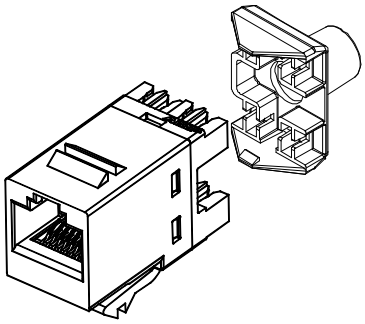
Category 5E SL Series Modular Jacks

1375191-X, 1375190-X, 1375189-1







TE Connectivity's Category 5E SL Series Modular Jacks exceed Enhanced Category 5 ANSI/TIA-568-C.2 and Category 5 ISO/IEC 11801 component requirements and Enhanced Category 5/Class D system performance. TE's Enhanced Category 5 System complies with all of the performance requirements for current and proposed applications such as Gigabit Ethernet (1000BASE-TX), 10 and 100BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog and digital video, and analog and digital voice (VoIP).

TE's Category 5E SL Series 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. Modular jack are available in shielded and unshielded options. The unshielded jacks offer an optional integral dust cover. Unshielded jacks allow cables to be dressed at either 180° (rear) or 90° (either side) for added flexibility. 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 Modular Jacks are available in almond, black, gray, orange, blue, red, yellow, green, violet, electrical ivory and alpine white

SPECIFICATION (text in brackets [ ] requires a choice)
Modular jacks shall be unkeyed, **[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, color-coded for both T568A and T568B wiring. Each modular jack shall be wired to **[T568A or T568B]**. The 110-style insulation displacement connectors shall be capable of terminating 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 SL Series Termination Tool part number 1725150-1. Each unshielded 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 or 1375189-1 (X denotes color, see part number table)]** and be **[almond, black, gray, orange, blue, red, yellow, green, violet, electrical ivory, or alpine white]** in color.

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WORST-CASE PERFORMANCE CHARACTERISTICS (EXCEED EIA/TIA AND ISO/IEC ENHANCED CATEGORY 5/CLASS D REQUIREMENTS)

	Insertion Loss dB		Return Loss dB		NEXT dB		FEXT dB	
Frequency MHz	Category 5e Standard	Max	Category 5e Standard	Min	Category 5e Standard	Min	Category 5e Standard	Min
1	0.1	0.01	30.0	58.3	65.0	87.3	65.0	86.6
4	0.1	0.02	30.0	48.8	65.0	76.6	63.1	76.1
8	0.1	0.03	30.0	43.7	64.9	70.7	57.0	70.5
10	0.1	0.02	30.0	42.2	63.0	69.1	55.1	68.9
16	0.2	0.1	30.0	38.5	58.9	64.8	51.0	65.3
20	0.2	0.08	30.0	36.7	57.0	63.0	49.1	63.5
25	0.2	0.06	30.0	35.0	55.0	61.1	47.1	61.7
31.25	0.2	0.04	30.0	33.1	53.1	58.9	45.2	60.0
62.5	0.3	0.06	24.1	27.5	47.1	52.6	39.2	54.7
100	0.4	0.08	20.0	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	–	6.0	–	35.0	–	37.1
300	–	0.3	–	14.5	–	33.5	–	35.6
350	–	0.3	–		–	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 matte tin in solder area over 1.27 µm [50 µin] minimum thick nickel underplate

Insulation Displacement Contacts: Phosphorous bronze, plated with 3.81µm [150µin] minimum thick matte tin-lead over 1.27µm [50µin] minimum thick nickel underplate

Integral Dust Cover: Polycarbonate

Shield: Copper zinc alloy 260, pre-plated with bright nickel

Strain Relief: Polycarbonate

Electrical Characteristics

Modular Jack: 750 mating cycles Voltage – 150VAC max.

110 Contacts: 200 terminations Operating Temperature – -40° – 70°C (-40° – 158°F)

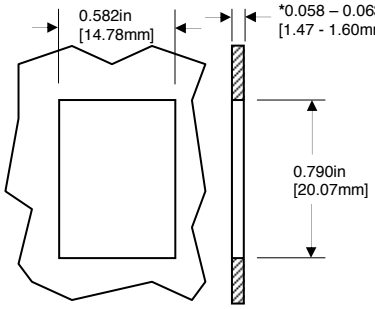
Pull Force: 20lbs (89N)

Packaging

Modular Jack: 1 per bag, 25 per carton

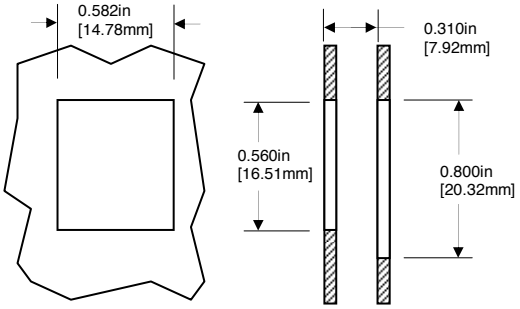
Strain Relief: 1 per bag (unshielded only)

Approvals: UL Listed, file number E81956, CSA



Single Panel Cutout

***NOTE:** Panel thickness is applicable to both Single Panel and Flush Mount Cutout Styles.



Suggested Flush Mount Panel Application Cutout

ORDERING INFORMATION

Product Description	Wiring Pattern			Part Numbers
Category 5E SL Series Modular Jacks	T568A/T568B	Unshielded		1375191-X
			With Dust Cover	1375190-X
		Shielded	180° (Rear) Entry Shield	1375189-1*

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

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

DATA SHEET

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