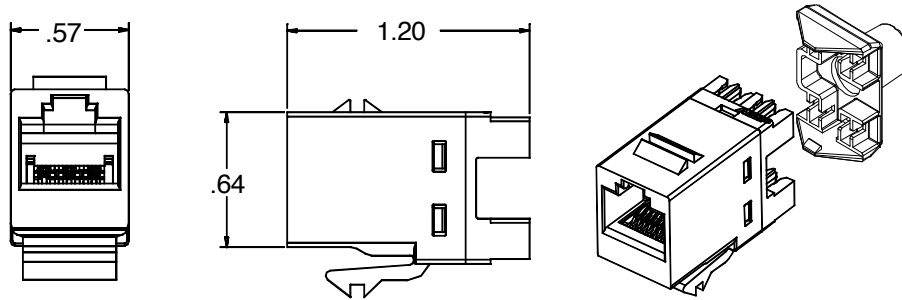# COMMSCOPE®

Category 6 SL Series Modular Jacks

1375055-X, 1375187-X, 1375188-1

CommScope's Category 6 SL series modular jacks exceed ANSI/TIA-568-C.2 and ISO/ IEC 11801 component requirements and Category 6/Class E system performance. CommScope's Category 6 System complies with all of the performance requirements for current and proposed applications such as Gigabit Ethernet (1000BASE-TX), 10 and 1 OOBASE-TX, loken ring , 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog and digital video, and analog and digital voice (VoIP).

CommScope's Category 6 SL Series Modular Jacks have a slim profile and are compatible with SL Series and 11OConnecl faceplates. Universal wiring labels permit termination to either T568A or T5688 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 (see part number table for color samples).

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 11O-style pc board connectors, colorcoded for both T568A and T5688 wiring. Each modular jack shall be wired to [T568A or T568B]. The 11O-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. Earn modular jack shall meet the [ANSI/TIA-568-C.2 and ISO/ IEC 11801 component requirements and Category 6/Class E system] performance standards and the requirements listed in table 1.

Modular Jacks shall be compatible with CommScope SL Series termination tool part number 1725150-1. Each unshielded modular jack shall be provided with a bendlimiting 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 CommScope part number [1375055-X, 1375187-X or 1375188-1 (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.

Table 1: Worst-Case Performance Characteristics (exceed EIA/TIA and ISO/IEC Category 6/Class E requirements)

Frequency MHz	Insertion Loss (dB)		Return Loss (dB)		NEXT (dB)		FEXT (dB)	
	Category 6 Standard	Max	Category 6 Standard	Min	Category 6 Standard	Min	Category 6 Standard	Min
1	0.10	0.02	30	52.4	75.0	84.8	75.0	83.7
4	0.10	0.02	30	53.7	75.0	80.3	71.1	74.8
8	0.10	0.02	30	55.3	75.0	77.4	65.0	69.4
10	0.10	0.03	30	56.1	74.0	76.4	63.1	67.5
16	0.10	0.03	30	57.6	69.9	72.0	59.0	62.9
20	0.10	0.04	30	59.3	68.0	71.9	57.1	61.7
25	0.10	0.04	30	59.4	66.0	69.1	55.1	59.8
31.25	0.11	0.05	30	56.8	64.1	67.7	53.2	58.2
62.5	0.16	0.06	28	42.3	58.1	61.5	47.2	52.6
100	0.20	0.06	24	33.2	54.0	57.7	43.1	48.7
200	0.28	0.06	18	21.2	48.0	52.5	37.1	42.2
250	0.32	0.10	16	17.4	46.0	47.9	35.1	40.1

Specifications

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 tinlead 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 m
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
Approvals: w	UL Listed, file number E81956, CSA

0.582in [14.78mm]   *0.058 – 0.063in [1.47 - 1.60mm]*

0.790in [20.07mm]

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

Single Panel Cutout

0.582in [14.78mm]   0.310in [7.92mm]

0.560in [16.51mm]   0.800in [20.32mm]

Suggested Flush Mount Panel Application Cutout
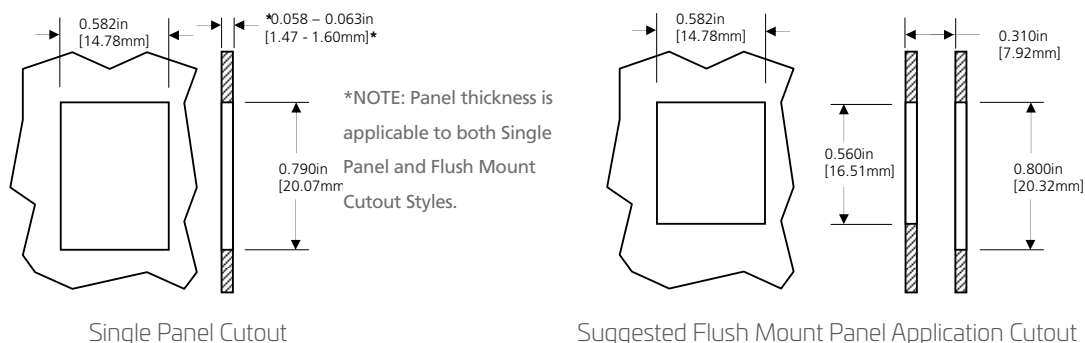
Ordering Information

Product Description	Wiring Pattern			Part Number
Category 6 SL Series 110 Connect Modular Jacks	T568A/T568	Unshielded		1375055-X
			With Dust Cover	1375187-X
		Shielded	180° (Rear) Entry Shield	1375188-1

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.

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