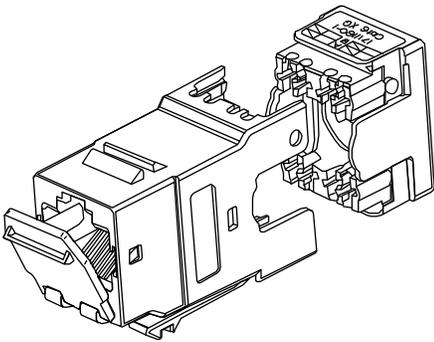


# Category 6A Shielded AMP-TWIST Modular Jack

1711342-2, 1711160-2, 1711343-2, 1711295-2



TE Connectivity's Category 6A F/UTP AMP-TWIST modular jacks deliver the next generation of 10G performance while maintaining high density solutions for data center and LAN environments. The shielded AMP-TWIST modular jacks meet or exceed all the requirements for Category 6A ANSI/TIA and ISO standards.

The shielded AMP-TWIST 6A modular jacks offer superior noise immunity to eliminate alien crosstalk and RFI/EMI while offering integrated mechanical bonding and grounding through normal installation practices. These modular jacks have a slim profile and are compatible with SL Series style faceplates. The jacks offer integral hinged dust cover or without dust cover in both back (180°) or side (90°) cable entry options. Universal wiring labels permit termination to either T568A or T568B wiring patterns. The AMP-TWIST modular jacks contain integrated cutting blades allowing all four pairs of a four pair cable to be terminated at one time. This termination technology provides for a quick and reliable termination.

## **SPECIFICATION (TEXT IN BRACKETS [ ] REQUIRES A CHOICE)**

Modular jacks shall be unkeyed, 4-pair, RJ-45, with an integrated shield and shall fit in a .790" X .582" opening. Modular jacks shall terminate using the AMP NETCONNECT SL Series modular jack termination tool part number 1725150-3 (or 1725150-1 after removing the tool's lacing fixture), and be color-coded for both T568A and T568B wiring. Each modular jack shall be wired to [T568A or T568B] and shall accommodate cable with a maximum O.D. of 9.00 mm. Cables shall enter the jack at [180°, 90° from the right or 90° from the left]. The insulation displacement contacts shall be capable of terminating 24-22 AWG solid or 26-24 AWG stranded conductors with a maximum insulation diameter of 1.60 mm. 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 ANSI/TIA-568-C.2 and ISO 11801, Category 6A performance standards and the requirements listed in the following table.

[include Performance Characteristics table from page 2]

[Each jack shall incorporate an integral, hinged dust cover.] Modular jacks shall be part number [1711160-2, 1711342-2, 1711343-2 or 1711295-2].

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## Channel Performance Characteristics (meet or exceed ANSI/EIA/TIA, ISO/IEC and IEEE requirements)

Frequency MHz	Insertion Loss (dB)	NEXT (dB)	PSNEXT (dB)	ACRF (dB)	PSACRF (dB)	Return Loss (dB)	Prop Delay (ns/100m)	Prop Delay Skew (ns)	TCL (dB)	ELTCL /TCTL (dB)	PSANEXT (dB)	PSAACRF / PSAFEXT (dB)
0.772	2.1	65.0	62.0	65.5	62.5	19.0	585.0	50.0	40.0	32.2	67.0	67.0
1	2.3	65.0	62.0	63.3	60.3	19.0	580.0	50.0	40.0	30.0	67.0	67.0
4	4.2	63.0	60.5	51.2	48.2	19.0	562.0	50.0	40.0	18.0	67.0	65.0
8	5.8	58.2	55.6	45.2	42.2	19.0	556.7	50.0	39.5	11.9	67.0	58.9
10	6.5	56.6	54.0	43.3	40.3	19.0	555.4	50.0	38.0	10.0	67.0	57.0
16	8.2	53.2	50.6	39.2	36.2	18.0	553.0	50.0	34.9	5.9	67.0	52.9
20	9.2	51.6	49.0	37.2	34.2	17.5	552.0	50.0	33.5	4.0	67.0	51.0
25	10.2	50.0	47.3	35.3	32.3	17.0	551.2	50.0	32.0	2.0	66.0	49.0
31.25	11.5	48.4	45.7	33.4	30.4	16.5	550.4	50.0	30.4	N/A	65.1	47.1
62.5	16.4	43.4	40.6	27.3	24.3	14.0	548.6	50.0	24.4	N/A	62.0	41.1
100	20.9	39.9	37.1	23.3	20.3	12.0	547.6	50.0	20.3	N/A	60.0	37.0
200	30.1	34.8	31.9	17.2	14.2	9.0	546.5	50.0	14.3	N/A	55.5	31.0
250	33.9	33.1	30.2	15.3	12.3	8.0	546.3	50.0	12.3	N/A	54.0	29.0
300	37.4	31.7	28.8	13.7	10.7	7.2	546.1	50.0	10.8	N/A	52.8	27.5
400	43.6	28.7	25.8	11.2	8.2	6	545.8	50	8.3	N/A	51.0	24.9
500	49.3	26.1	23.2	9.28	6.3	6	545.6	50	6.3	N/A	49.5	23.0

## SPECIFICATIONS

### Materials

**Modular Jack and Lacing Fixture Housing:** Zinc Alloy  
**IDC Connecting Block:** Polycarbonate, 94V-0 rated  
**Contacts:** Beryllium copper, plated with 1.27 µm [50 µin] thick gold in localized area and 3.81µm [150 µin] minimum thick nickel underplate and 3.8 µin minimum thick tin in solder area over 1.27 µm minimum thick nickel underplate

**Cutting Blade and Shield Point Contact:** Stainless Steel

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

**Integral Dust Cover:** Polycarbonate

### Electrical Characteristics

**Voltage:** 150VAC max.

**Operating Temperature:** -40° to 70°C (-40° to 158°F )

### Mechanical Characteristics

**Modular Jack:** 750 mating cycles

**Insulation Displacement Contacts:** Accept solid, 24-22 AWG conductors or stranded 26-24 AWG conductors with a maximum insulation diameter of 1.60 mm

**Cutout Opening:** See diagrams on next page

**Cable Outside Diameter:** Accepts cables with a maximum O.D. of 9.00 mm

### Packaging

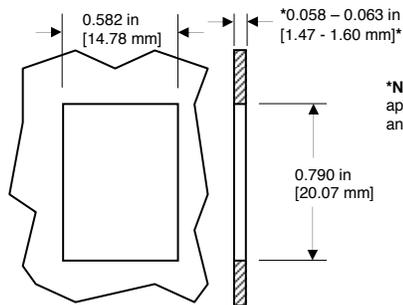
**Modular Jack:** 24 pieces per carton

**UL listed to U.S. and Canadian safety standards, reference UL file number:** E81956

# Category 6A Shielded AMP-TWIST Modular Jack

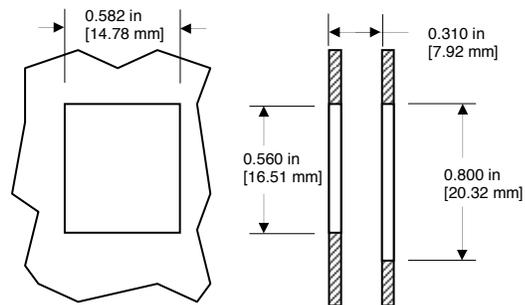
1711342-2, 1711160-2, 1711343-2, 1711295-2

## CUTOUT DIMENSIONS



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	Form Factor	Cable Exit	Integrated Dust Cover	Part Number
Cat 6A AMP-TWIST Shielded Modular Jacks	SL Series	180° (back)	-	1711342-2
			Dust Cover	1711160-2
		90° (side)	-	1711343-2
			Dust Cover	1711295-2

## DATA SHEET



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