

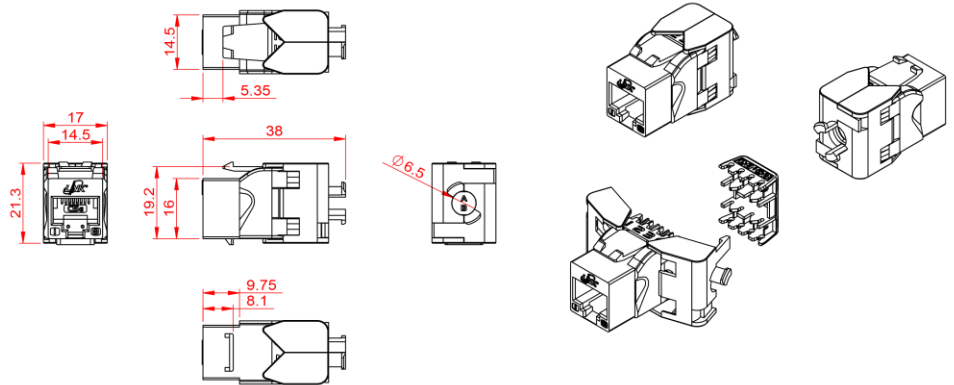
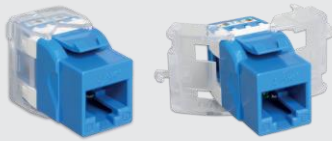


US-1005STF

Scope of Application

LINK Category 5e RJ45 modular jack slim tool free compliant ISO/IEC 11801:2002 Class D and ANSI/TIA-568.2-E requirements for category 5e performance. The Jacks accept 22-26 AWG solid & stranded conductors and combine two wiring of T568A/B (Universal color pattern) for easy installation. Tool-free cover cap is designed too easy to install and can be protect of dust by the cover cap for a long life guaranteed. The RJ45 modular jack shall be factory assembled with high-quality control and 100% test.

Drawing



Technical Standard

- ANSI/TIA-568.2-E Category 5e
- ANSI/TIA-568.2-D Category 5e
- ANSI/TIA-568-C.2 Category 5e
- ISO/IEC 11801:2017 class D
- EN 50173-1 Category 5e
- UL 1863
- IEC 60603-7, FCC Part 68 Subpart F
- Approvals UL listed file no. E196947
- RoHS Compliant



Construction and Properties

Jack Contact	Material	Phosphor bronze with 50-60 micro inch nickel plated and 50 micro inch of gold over nickel plated in contact area
IDC Contact	Material	Phosphor bronze with 150 micro inch tin plated Over 70 micro inch nickel underplate.
Jack Housing	Material	High Impact flame retardant plastic UL 94 V-0, ABS+PC
IDC Block	Material	High Impact Polycarbonate, UL 94 V-0
Cover Cap	Material	High Impact flame retardant plastic, UL 94 V-0, ABS+PC

Electrical Characteristics

Insulated Resistance	500 mega Ohm's minimum
Dielectric Withstanding	1000 V AC
Current Rating	1.5 Amps
DC Resistance	0.1 ohm maximum
Contact Resistance	20 milliohms maximum

Physical Properties

Pulling Force		89 N (20 lbs) minimum
Jack contact	Durability	800 mating cycles
	Force	100 grams minimum
IDC contact	Durability	200 re-termination cycles
Accommodate	Wire Gauge	26-22 AWG solid and stranded bare copper
	Insulation Diameter	0.8 mm - 1.2 mm.
	Cable Diameter	5 mm – 9 mm.
Termination Style		Tool-free
Wiring Pattern		T568A/T568B (universal color pattern)
Cable Entry		180°
Temperature	Storage	-40°C to 70°C
	Operation	-40°C to 70°C



PERFORMANCE CHARACTERISTIC (meet or exceed ANSI/TIA-568.2-E Category 5e)

Frequency (MHz)	Insertion Loss (dB)	NEXT (dB)	FEXT (dB)	Return Loss (dB)
1	0.01	87.5	86.8	58.9
4	0.02	76.8	76.3	50.3
8	0.02	70.9	70.7	45.7
10	0.02	69.3	69.1	44.1
16	0.03	65.0	65.5	40.5
20	0.06	63.2	63.5	38.8
25	0.06	61.3	61.7	37.1
31.25	0.04	59.1	60.2	35.2
62.5	0.06	52.8	54.9	29.7
100	0.08	47.6	51.2	26.2

Application

- 2.5G BASE-T (IEEE 802.3bz)
- 1000 BASE-T (IEEE 802.3ab Gigabit Ethernet)
- 1000 BASE-TX (TIA/EIA-854)
- 100 BASE-TX (IEEE 802.3u Fast Ethernet)
- 10 BASE-T (IEEE 802.3i Ethernet)
- 52/155/622Mbps and 1.2Gbps ATM
- 4/16 Mbps Token Ring
- IEEE 802.3af (PoE), IEEE 802.3at (PoE+)
- TP-PMD, TPDDI, ISDN, CDDI, VoIP
- EtherCAT Industrial standard, HDBaseT 2.0 standard
- Baseband, Broadband
- Digital and analog for data, video, and audio application

Order Information

Part number	Description	Color	Package
US-1005STF	Cat 5e RJ45 Blue JACK, Slim, Tool Free	Blue	Pack

Specifications subject to change without notice.

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