



US-4006IL



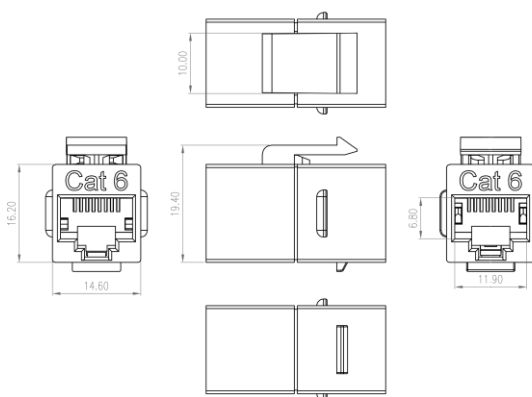
## CAT 6 RJ45 COUPLER In-Line or Patch Panel

### Insert

#### Scope of Application

LINK Category 6 in-line coupler for unload patch panel provide a 180° of RJ45 jack to jack splice, comply with ISO/IEC 11801 Class E and ANSI/TIA-568.2-D requirements for category 6 performance. The couplers are available in eight position contact RJ45 style and support for two patterns of T568A/B (Universal color pattern). The couplers are utilized printed circuit board (PCB) technology to balanced signal transmission of insertion loss. Available to use with unload patch panel for easy to installation

#### Drawing



#### Technical Standard

- ANSI/TIA-568.2-D Category 6
- ANSI/TIA-568-C.2 Category 6
- ISO/IEC 11801:2017 class E
- EN 50173-1 Category 6
- UL 1863
- IEC 60603-7, FCC Part 68 Subpart F
- Approvals UL listed file no. E196947
- RoHS Compliant



## Construction and Properties

<b>Jack Contact</b>	<b>Material</b>	Phosphor bronze with 50-60 micro inch nickel plated and 50 micro inch of gold over nickel plated in contact area
<b>Housing</b>	<b>Material</b>	High Impact flame retardant plastic ABS (with LINK logo), UL 94 V-0
<b>Contact Holder</b>	<b>Material</b>	High Impact ABS, UL 94 V-0

## Physical Properties

<b>Pulling Force</b>		89 N (20 lbs) minimum
<b>Jack contact</b>	<b>Durability</b>	800 mating cycles
<b>Temperature</b>	<b>Storage</b>	-40°C to 70°C
	<b>Operation</b>	-40°C to 70°C

## PERFORMANCE CHARACTERISTIC (meet or exceed ANSI/TIA-568.2-D Category 6)

Frequency (MHz)	Insertion Loss (dB)	NEXT (dB)	FEXT (dB)	Return Loss (dB)
1	0.02	85.0	83.7	52.5
4	0.02	80.5	75.0	53.7
8	0.02	77.5	69.5	55.3
10	0.03	76.5	67.5	56.1
16	0.03	73.0	63.0	57.6
20	0.04	72.1	61.7	59.3
25	0.04	69.1	60.0	59.4
31.25	0.05	67.7	58.2	56.8
62.5	0.06	61.5	52.6	42.3
100	0.06	57.7	48.8	33.4
200	0.06	52.5	42.2	21.2
250	0.10	48.0	40.3	17.5

## Application

- 2.5G/5G BASE-T (IEEE 802.3bz)
- 10G BASE-T (IEEE 802.3an 10Gigabit Ethernet) \*55m
- 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+), IEEE 802.3bt (Type4)
- 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-4006IL	CAT 6 RJ45 COUPLER In-Line or Patch Panel Insert	White	Pack

\*Other color available on request

Specifications subject to change without notice.

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US-4006IL-V1.0-181223