

# REVConnect

## CAT6+ UTP Modular Jack



### Overview & Usage

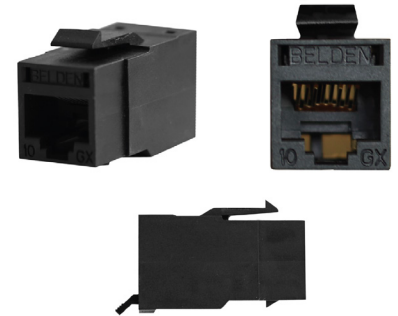
#### General Description:

REVConnect CAT6+ UTP Modular Jack, T568 A/B, Single Pack

#### Usage (Overall):

**Suitable Applications:** 2400, 3600, 4800 Systems, TIA Category 6, ISO Class E, 1GBASE-T

**Related Parts:** Compatible with KeyConnect Faceplates, Adapters, Boxes and Patch Panels



### Technical Data

#### Dimensions

Specification	Value
Dimensions (WxHxD)	0.640 in x 0.940 in x 1.337 in (16.26 mm x 23.88 mm x 33.96 mm)

#### Materials

Description	Type	Material
Front Connection	RJ45	Copper Clad Flexible PCB, 50uin Gold plated contacts over Nickel
Rear Connection	REVConnect	Copper alloy, Gold plated contacts over Nickel
Connector Body	N/A	PBT glass reinforced UL94V-0

**Color:** Grey, White, Black, Natural/Ivory

**Writing Scheme:** T568A/B

**Weight:** 0.016 lbs

**Packaging:** Individually packaged in a plastic bag

#### Mechanical Characteristics (Connectivity)

Termination	Connection	Durabilities
Front	Mated Connection	750 cycles
Rear	Mated Connection	20 cycles

**Footprint/Type:** KeyConnect

**Plug / Jack Compatibility:** RJ45, RJ11

**Cable/Connector Retention:** 15 lbs

**Connector/Hardware Retention:** 20 lbs

**Plug/Connector Retention:** 11.250 lbs

**Storage Temperature Range:** -40°C To 70°C (-40°F To 158°F)

**Installation Temperature Range:** -10°C To 60°C (14°F To 140°F)

**Operating Temperature Range:** -10°C To 60°C (14°F To 140°F)

**Tool Compatibility:** REVConnect Termination Tool (p/n RVUTT01)

These products may be protected by one or more patents • For further information, please visit: [www.ppc-online.com/patents](http://www.ppc-online.com/patents)

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#### Applicable Specifications and Agency Compliance (Overall)

Standard	Description
UL Rating	UL94V-0
IEEE Specification	Power Over Ethernet (PoE) IEEE 802.3at type 1 and 2 (up to 30W), IEEE802.3bt/D1.7 type 3 and 4 (up to 100W), CISCO UPOE (up to 60W), Power over HDBaseTTM (up to 100W)
EU Directive 2002/95/EC (RoHS)	Yes
EU RoHS Compliance Date (mm/dd/yyyy)	07/01/2006
MII Order #39 (China RoHS)	EUP 50
Telecommunications Standards	Category 6 - TIA 568.C.2, Category 6 - ISO/IEC 11801:2002 Ed.2
Safety Listing	c(UL)us Listed
Other Specification	UL 1863, IEC 60603-7, FCC part 68-F
Flame Test	
UL Flame Test	UL2043 Air Handling Spaces
Suitability	
Suitability - Indoor	Yes - Indoor

### Transmission Characteristics (Connectivity)

Mated Connection Table 1

Frequency (MHz)	Max. Insertion Loss TIA* (dB)	Max. Insertion Loss Belden** (dB)	Min. NEXT TIA* (dB)	Min. NEXT Belden** (dB)	Min. FEXT TIA* (dB)	Min. FEXT Belden** (dB)
1.000	0.100	0.100	75.000	77.000	75.000	77.000
4.000	0.100	0.100	75.000	77.000	71.100	75.100
8.000	0.100	0.100	75.000	77.000	65.000	69.000
10.000	0.100	0.100	74.000	77.000	63.100	67.100
16.000	0.100	0.100	69.900	72.900	59.000	63.000
20.000	0.100	0.100	68.000	71.000	57.100	61.100
25.000	0.100	0.100	66.000	69.000	55.100	59.100
31.250	0.110	0.100	64.100	67.100	53.200	57.200
62.500	0.160	0.120	58.100	61.100	47.200	51.200
100.000	0.200	0.160	54.000	57.000	43.100	47.100
200.000	0.280	0.240	48.000	51.000	37.100	41.100
250.000	0.320	0.280	46.000	49.000	35.100	39.100
300.000		0.310		44.500		37.600

\* TIA/EIA-568-C.2 Category 6 Standard.

\*\* Worst-case performance for a CAT6+ mated connection using CAT6+ modular plugs.

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### Transmission Characteristics (Connectivity)

Mated Connection Table 2

Frequency (MHz)	Min. Return Loss TIA* (dB)	Min. Return Loss Belden** (dB)	Min. Balanced TCL TIA* (dB)	Min. Balanced TCL Belden** (dB)
1.000	30.000	32.000	40.000	42.000
4.000	30.000	32.000	40.000	42.000
8.000	30.000	32.000	40.000	42.000
10.000	30.000	32.000	40.000	42.000
16.000	30.000	32.000	40.000	42.000
20.000	30.000	32.000	40.000	42.000
25.000	30.000	32.000	40.000	42.000
31.250	30.000	32.000	38.100	42.000
62.500	28.100	32.000	32.100	36.100
100.000	24.000	28.000	28.000	32.000
200.000	18.000	22.000	22.000	26.000
250.000	16.000	22.000	20.000	24.000
300.000		18.500		22.500

**Dielectric Strength:** 1,000 V RMS @ 60 Hz for 1 minute (Signals to Ground)

**Current Rating:** 1.300 A

**Insulation Resistance:** 500 M-Ohm Minimum

**Max. Contact Resistance:** 20 m-Ohm

**Termination Resistance:** 2.5 m-Ohm

### Ordering Information

PPC Part Number	Description
PCRVJGRY-50B	REVConnect Jack CAT6+ UTP - Grey
PCRVJWHT-50B	REVConnect Jack CAT6+ UTP - White
PCRVJBLK-50B	REVConnect Jack CAT6+ UTP - Black
PCRVJNAT-50B	REVConnect Jack CAT6+ UTP - Natural/Ivory

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