

# Broadband REVConnect Plug



## Overview & Usage

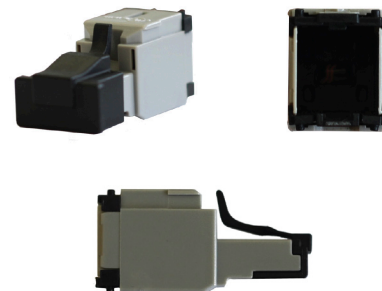
### General Description:

Broadband REVConnect Plug, 10GX UTP, Black, Bulk Pack

### Usage (Overall):

**Suitable Applications:** TIA Category 6A, ISO Class EA, 10GBASE-T

**Related Parts:** Refer to REVConnect WAP - CAMERA Compatibility Guide



## Technical Data

### Dimensions

Specification	Value
Dimensions (WxHxD)	1.10 in x 0.730 in x 1.810 in (27.94 mm x 18.542 mm x 45.974 mm)

### Materials

Description	Type	Material
Front Connection	RJ45	Copper Clad Flexible PCB, Gold plated contacts over Palladium/Nickel
Rear Connection	REVConnect	Copper Clad Flexible PCB, Gold plated contacts over Palladium/Nickel
Connector Body	N/A	Polycarbonate - UL94V-0

**Color:** Black

**Writing Scheme:** T568A/B

**Weight:** 0.016 lbs

**Packaging:** Bulk packaged 50 to a box

### Mechanical Characteristics (Connectivity)

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

**Footprint/Type:** KeyConnect

**Plug / Jack Compatibility:** RJ45

**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)

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## Technical Data

### 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	0.050	75.000	77.000	75.000	80.000
4.000	0.100	0.050	75.000	77.000	71.100	75.100
8.000	0.100	0.050	75.000	77.000	65.000	69.000
10.000	0.100	0.050	74.000	77.000	63.100	67.100
16.000	0.100	0.060	69.900	72.900	59.000	63.000
20.000	0.100	0.070	68.000	71.000	57.100	61.100
25.000	0.100	0.080	66.000	69.000	55.100	59.100
31.250	0.110	0.090	64.100	67.100	53.200	57.200
62.500	0.160	0.140	58.100	61.100	47.200	51.200
100.000	0.200	0.180	54.000	57.000	43.100	47.100
200.000	0.280	0.260	48.000	51.000	37.100	41.100
250.000	0.320	0.300	46.000	49.000	35.100	39.100
300.000	0.350	0.330	42.900	46.700	33.600	37.600
400.000	0.400	0.380	37.900	42.900	31.100	35.100
500.000	0.450	0.430	34.000	40.000	29.100	33.100
625.000		0.480		37.100		31.200

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

\*\* Worst-case performance for a 10GX mated connection using 10GX 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. PSANEXT TIA* (dB)	Min. PSANEXT Belden** (dB)	Min. PSAACRF TIA* (dB)	Min. PSAACRF Belden** (dB)	Min. Balanced TCL TIA* (dB)	Min. Balanced TCL Belden** (dB)
1.000	30.000	34.100	70.500	72.000	67.000	72.000	40.000	45.000
4.000	30.000	34.100	70.500	72.000	67.000	72.000	40.000	45.000
8.000	30.000	34.100	70.500	72.000	67.000	72.000	40.000	45.000
10.000	30.000	34.100	70.500	72.000	67.000	72.000	40.000	45.000
16.000	30.000	34.100	70.500	72.000	67.000	72.000	40.000	45.000
20.000	30.000	34.100	70.500	72.000	67.000	72.000	40.000	45.000
25.000	30.000	34.100	70.500	72.000	67.000	72.000	40.000	45.000
31.250	30.000	34.100	70.500	72.000	67.000	72.000	38.100	45.000
62.500	30.000	34.100	70.500	72.000	67.000	72.000	32.100	39.100
100.000	28.000	30.000	70.500	72.000	67.000	72.000	28.000	35.000
200.000	22.000	24.00	64.500	66.000	61.000	66.000	22.000	29.000
250.000	20.000	22.000	62.500	64.000	59.000	64.000	20.000	27.000
300.000	18.500	20.500	61.000	62.500	57.500	62.500	18.500	25.500
400.000	16.000	18.000	58.500	60.000	55.500	60.000	16.000	23.000
500.000	14.000	16.000	56.500	58.000	53.000	58.000	14.000	21.000
625.000		13.000		56.100		56.100		19.100

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

**Current Rating:** 1.500 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
PCRVXXXX-50B	Broadband REVConnect Plug, 10GX UTP, Black, Bulk Pack

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