

## RV6MJKUXX-S1 Modular Connectors - REVConnect Jack CAT6+ UTP



For more Information  
please call

1-800-Belden1



### 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

### Physical Characteristics (Connectivity)

#### Dimensions

Dimensions:

Height (mm)	Width (mm)	Depth (mm)
23.876	16.256	33.960

#### Materials

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

**Color:** Almond, Black, Blue, Blue (TIA 606), Brown, Brown (TIA 606), Elec. White, Gray, Green, Green (TIA 606), Ivory, Orange, Orange (TIA 606), Purple, Purple (TIA 606), Red, Red (TIA 606), Yellow, Yellow (TIA 606)

#### Wiring Scheme

**Wiring Scheme:** T568A/B

#### Weight

**Weight:** 0.007 kg

#### Packaging

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

### Mechanical Characteristics (Connectivity)

**Footprint/Type:** KeyConnect

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

#### Termination Interface:

Termination	Connection	Durabilities
Front	Mated Connection	750 cycles
Rear	Mated Connection	200 cycles

**Cable/Connector Retention:** 66.723 N

**Connector/Hardware Retention:** 88.964 N

**Plug/Connector Retention:** 50.042 N

**Storage Temperature Range:** -40°C To +70°C

**Installation Temperature Range:** -10°C To +60°C

**Operating Temperature Range:** -10°C To +60°C

## RV6MJKUXX-S1 Modular Connectors - REVConnect Jack CAT6+ UTP

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

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>UL Rating:</b>	UL94V-0
<b>IEEE Specification:</b>	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)
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	07/01/2006
<b>MII Order #39 (China RoHS):</b>	EUP 50
<b>Telecommunications Standards:</b>	Category 6 - ISO/IEC 11801:2002 Ed.2, TIA 568.2-D
<b>Safety Listing:</b>	c(UL)us Listed
<b>Other Specification:</b>	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

**Mated Connection Table - Footnote:**

\* TIA/EIA-568.2-D Category 6 Standard.  
 \*\* Worst-case performance for a CAT6+ mated connection using CAT6+ modular plugs.

**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

METRIC MEASUREMENT VERSION

## RV6MJKUXX-S1 Modular Connectors - REVConnect Jack CAT6+ UTP

300.000		18.500		22.500
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<b>Dielectric Strength:</b>	1,000 V RMS @ 60 Hz for 1 minute (Signals to Ground)
<b>Current Rating:</b>	1.300 A
<b>Insulation Resistance:</b>	500 M-Ohm Minimum
<b>Max. Contact Resistance:</b>	20 m-Ohm
<b>Termination Resistance:</b>	2.5 m-Ohm

### Notes (Overall)

**Notes:** Please see Installation Guide PX106434.

#### Notes (Cont'd.):

#### Cable Range

- Min: 24 AWG Max: Cable 22 AWG Solid and Stranded
- Insulation Dia. Min: .035 in. (.89 mm) Max: .053 in. (1.34 mm)
- Outer Jacket Dia. Max: .366 in. (9.3 mm)

### Product Family

#### Part Number List:

Item Number	Color
RV6MJKUGY-S1	Gray
RV6MJKUAL-S1	Almond
RV6MJKUEW-S1	Elec. White
RV6MJKUBK-S1	Black
RV6MJKUIV-S1	Ivory
RV6MJKUBR-S1	Brown
RV6MJKURD-S1	Red
RV6MJKUOR-S1	Orange
RV6MJKUYL-S1	Yellow
RV6MJKUGN-S1	Green
RV6MJKUBL-S1	Blue
RV6MJKUPR-S1	Purple
RV6MJKUTN-S1	Brown (TIA)
RV6MJKUTR-S1	Red (TIA)
RV6MJKUTO-S1	Orange (TIA)
RV6MJKUTY-S1	Yellow (TIA)
RV6MJKUTG-S1	Green (TIA)
RV6MJKUTB-S1	Blue (TIA)
RV6MJKUTP-S1	Purple (TIA)

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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