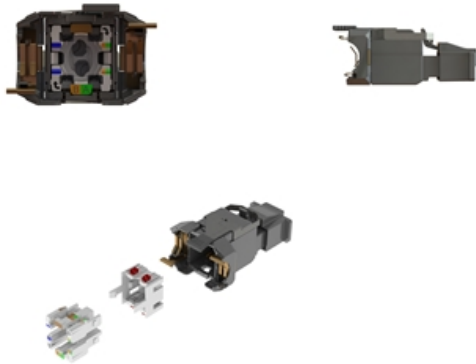


RVAFPUBK-B24 Modular Connectors - REVConnect Plug 10GX UTP



For more Information
please call

1-800-Belden1



General Description:

REVConnect 10GX UTP Field Mount Plug, Black, Bulk Pack

Usage (Overall)

| | |
|-------------------------------|---|
| Suitable Applications: | 10GX System, TIA Category 6A, ISO Class EA, 10GBASE-T |
| Related Parts: | Refer to REVConnect WAP - CAMERA Compatibility Guide |

Physical Characteristics (Connectivity)

Dimensions

Dimensions:

| Height (in.) | Width (in.) | Depth (in.) |
|--------------|-------------|-------------|
| 0.730 | 1.100 | 1.810 |

Materials

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

| | |
|---------------|-------|
| Color: | Black |
|---------------|-------|

Wiring Scheme

| | |
|-----------------------|---------|
| Wiring Scheme: | T568A/B |
|-----------------------|---------|

Weight

| | |
|----------------|------------|
| Weight: | 0.016 lbs. |
|----------------|------------|

Packaging

| | |
|-------------------|--|
| Packaging: | Packaged in a bulk pack of 24. Weight is per individual unit |
|-------------------|--|

Mechanical Characteristics (Connectivity)

| | |
|------------------------|------------|
| Footprint/Type: | KeyConnect |
|------------------------|------------|

| | |
|-----------------------------------|------|
| Plug / Jack Compatibility: | RJ45 |
|-----------------------------------|------|

Termination Interface:

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

| | |
|-----------------------------------|---------|
| Cable/Connector Retention: | 15 lbs. |
|-----------------------------------|---------|

| | |
|--------------------------------------|---------|
| Connector/Hardware Retention: | 20 lbs. |
|--------------------------------------|---------|

| | |
|----------------------------------|-------------|
| Plug/Connector Retention: | 11.250 lbs. |
|----------------------------------|-------------|

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

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

RVAFPUBK-B24 Modular Connectors - REVConnect Plug 10GX UTP

Operating Temperature Range: -10°C to +60°C

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

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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

MIL Order #39 (China RoHS): EUP 50

Telecommunications Standards: Category 6A - TIA 568.C.2, Category 6A - ISO/IEC 11801:2002 Ed.2

Safety Listing: c(UL)us Listed

Other Specification: UL 1863, IEC 60603-7, FCC part 68-F

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 |

Mated Connection Table - Footnote:

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

** Worst-case performance for a 10GX mated connection using 10GX modular plugs.

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 | 24.000 | 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 | 55.000 | 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

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Max. Contact Resistance: 20 m-Ohm

Termination Resistance: 2.5 m-Ohm

Notes (Overall)

Notes: Please see Installation Guide PX106434.

Product Family

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|-------|-------------|-------|-------|-------------------------|
| RVAFPUBK-B24 | 24 EA | 20.640 LB | | Q | REVConn 10GX Plug Black |

Notes:

Q = STANDARD PACKAGES CANNOT BE BROKEN.

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