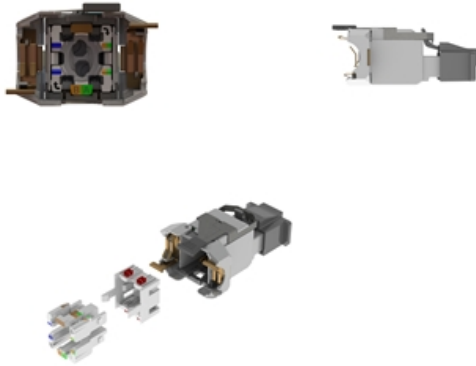**BELDEN**
SENDING ALL THE RIGHT SIGNALS

### RVAFPSME-B24  Modular Connectors - 10GX Shielded REVConnect Plug

For more Information
please call

1-800-Belden1

RoHS COMPLIANT
ENVIRONMENTALLY FRIENDLY

## General Description:

REVConnect 10GX STP Field Mount Plug, Metal, Bulk Pack

## Usage (Overall)

| | |
|---|---|
| **Suitable Applications:** | 10GX Shielded System, TIA Screened 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 | Nickel plated zinc alloy diecast |

### Wiring Scheme

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

### Weight

| | |
|---|---|
| **Weight:** | 0.048 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 |
| **Operating Temperature Range:** | -10°C To +60°C |
| **Tool Compatibility:** | RVUTT01 Termination Tool |

## RVAFPSME-B24  Modular Connectors - 10GX Shielded REVConnect Plug

### 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 |
| **MII 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 |

#### 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 | 76.000 | 63.100 | 67.100 |
| 16.000 | 0.100 | 0.060 | 69.900 | 71.900 | 59.000 | 63.000 |
| 20.000 | 0.100 | 0.070 | 68.000 | 70.000 | 57.100 | 61.100 |
| 25.000 | 0.100 | 0.080 | 66.000 | 68.000 | 55.100 | 59.100 |
| 31.250 | 0.110 | 0.090 | 64.100 | 66.100 | 53.200 | 57.200 |
| 62.500 | 0.160 | 0.140 | 58.100 | 60.100 | 47.200 | 51.200 |
| 100.000 | 0.200 | 0.180 | 54.000 | 56.000 | 43.100 | 47.100 |
| 200.000 | 0.280 | 0.260 | 48.000 | 50.000 | 37.100 | 41.100 |
| 250.000 | 0.320 | 0.300 | 46.000 | 47.900 | 35.100 | 39.100 |
| 300.000 | 0.350 | 0.330 | 42.900 | 45.200 | 33.600 | 37.600 |
| 400.000 | 0.400 | 0.380 | 37.900 | 40.800 | 31.100 | 35.100 |
| 500.000 | 0.450 | 0.430 | 34.000 | 37.400 | 29.100 | 33.100 |
| 625.000 | | 0.480 | | 34.000 | | 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. Compliant with TIA/EIA-568-C.2 Category 6A Standard and ISO/IEC 11801:2002 Amendement 2. |

**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 | 75.000 | 67.000 | 75.000 | 40.000 | 45.000 |
| 4.000 | 30.000 | 34.100 | 70.500 | 75.000 | 67.000 | 75.000 | 40.000 | 45.000 |
| 8.000 | 30.000 | 34.100 | 70.500 | 75.000 | 67.000 | 75.000 | 40.000 | 45.000 |
| 10.000 | 30.000 | 34.100 | 70.500 | 75.000 | 67.000 | 75.000 | 40.000 | 45.000 |
| 16.000 | 30.000 | 34.100 | 70.500 | 75.000 | 67.000 | 75.000 | 40.000 | 45.000 |
| 20.000 | 30.000 | 34.100 | 70.500 | 75.000 | 67.000 | 75.000 | 40.000 | 45.000 |
| 25.000 | 30.000 | 34.100 | 70.500 | 75.000 | 67.000 | 75.000 | 40.000 | 45.000 |
| 31.250 | 30.000 | 34.100 | 70.500 | 75.000 | 67.000 | 75.000 | 38.100 | 45.000 |
| 62.500 | 30.000 | 34.100 | 70.500 | 75.000 | 67.000 | 75.000 | 32.100 | 39.100 |
| 100.000 | 28.000 | 30.000 | 70.500 | 75.000 | 67.000 | 75.000 | 28.000 | 35.000 |
| 200.000 | 22.000 | 24.000 | 64.500 | 75.000 | 61.000 | 75.000 | 22.000 | 29.000 |
| 250.000 | 20.000 | 22.000 | 62.500 | 75.000 | 59.000 | 75.000 | 20.000 | 27.000 |
| 300.000 | 18.500 | 19.500 | 61.000 | 75.000 | 57.500 | 75.000 | 18.500 | 25.500 |
| 400.000 | 16.000 | 17.000 | 58.500 | 75.000 | 55.000 | 75.000 | 16.000 | 23.000 |
| 500.000 | 14.000 | 15.000 | 56.500 | 75.000 | 53.000 | 73.000 | 14.000 | 21.000 |
| 625.000 | | 13.000 | | 75.000 | | 70.000 | | 19.100 |

| | |
|---|---|
| **Dielectric Strength:** | 1,000 V RMS @ 60 Hz for 1 minute (Signals to Ground) |
| **Current Rating:** | 1.500 A |

**RVAFPSME-B24  Modular Connectors - 10GX Shielded REVConnect Plug**

| | |
|---|---|
| **Insulation Resistance:** | 500 M-Ohm Minimum |
| **Max. Contact Resistance:** | 20 m-Ohm |
| **Termination Resistance:** | 2.5 m-Ohm |

## Notes (Overall)

**Notes:**  Please see Installation Guide PX106435.

### Product Family

## Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---|---|---|---|---|---|
| RVAFPSME-B24 | 24 EA | 31.200 LB | | Q | REVConn 10GX Plug Metal |

**Notes:**
Q = STANDARD PACKAGES CANNOT BE BROKEN.

Revision Number: 0      Revision Date: 04-13-2017

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