

## RVAFPSME-S1 Modular Connectors - 10GX Shielded REVConnect Plug



For more Information  
please call

1-800-Belden1



### General Description:

REVConnect 10GX STP Field Mount Plug, Metal, Single 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 (mm)	Width (mm)	Depth (mm)
18.542	27.940	45.974

#### Materials

Materials:

Description	Type	Material
Front Connection	RJ45	Ethylene Propylene
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:** 0.022 kg

#### Packaging

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

### Mechanical Characteristics (Connectivity)

**Footprint/Type:** KeyConnect

**Plug / Jack Compatibility:** RJ45

**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

**Tool Compatibility:** RVUTT01 Termination Tool

## RVAFPSME-S1 Modular Connectors - 10GX Shielded REVConnect Plug

### 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 6A - 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

<b>UL Flame Test:</b>	UL2043 Air Handling Spaces
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#### Suitability

<b>Suitability - Indoor:</b>	Yes - Indoor
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### 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-568.2-D Category 6A Standard.  
 \*\* Worst-case performance for a 10GX mated connection using 10GX modular plugs. Compliant with TIA/EIA-568.2-D Category 6A Standard and ISO/IEC 11801:2002 Amendment 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

## METRIC MEASUREMENT VERSION

### RVAFPSME-S1 Modular Connectors - 10GX Shielded REVConnect Plug

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

**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.

#### 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. Min: .235 in. (5.9 mm) Max: .366 in. (9.3 mm)

#### Product Family

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
RVAFPSME-S1	1 EA	0.060 LB		Q	REVConn 10GX Plug Metal

#### Notes:

Q = STANDARD PACKAGES CANNOT BE BROKEN.

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