



Product: [RV6FFPUBK18O-S1](#)



REVConnect I/O FlexPlug, CAT6+, Bonded-Pair, 1/Pack, 4 Pair, 23 AWG Solid, T568A/B-T568A/B

Product Description

REVConnect I/O FlexPlug, CAT6+, Single Packaging (incl. 1 core), Bonded-Pair, 4 Pair, 23 AWG Solid, UTP, CMR/CMX, T568A/B-T568A/B

Technical Specifications

Product Overview

|                        |   |
|------------------------|---|
| Suitable Applications: | 4800 and 3600 Systems, TIA Category 6, ISO Class E, 1000 Base-T |
|------------------------|---|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material         | No. of Pairs |
|-----|-----------|------------------|--------------|
| 23  | Solid     | BC - Bare Copper | 4            |

Insulation

| Material        |
|-----------------|
| PO - Polyolefin |

Outer Jacket

| Material                 |
|--------------------------|
| PVC - Polyvinyl Chloride |

|                           |   |
|---------------------------|---|
| Overall Nominal Diameter: | 0.255 in.                                     |
| Material:                 | PVC - Polyvinyl Chloride                      |
| Wiring Scheme:            | T568A/B-T568A/B                               |
| Packaging:                | Individually packaged in a clear plastic bag. |
| Weight:                   | 0.120 lbs                                     |

Connectors

Materials

| Description             | Material   | Type        |
|-------------------------|--|-------------|
| Cable End 1, Plug       | Polycarbonate  | RJ45        |
| Cable End 1, Connection | Phosphor Bronze with 50u inch Gold over Nickel Plating | RJ45 Blades |
| Cable End 2, Connection | 50uin Gold plated contacts                             | REVConnect  |

Electrical Characteristics

|                         |                     |
|-------------------------|---------------------|
| Dielectric Strength:    | 1,000 V RMS @ 60 Hz |
| Current Rating:         | 1.500 A             |
| Insulation Resistance:  | 500 M-Ohm Minimum   |
| Max Contact Resistance: | 20 mOhm             |

High Frequency

| Frequency [MHz] | Min. NEXT [dB] | Min. RL (Return Loss) [dB] |
|-----------------|----------------|----------------------------|
| 1 MHz           | 65 dB          | 19.8 dB                    |
| 4 MHz           | 65 dB          | 21.6 dB                    |

|           |         |         |
|-----------|---------|---------|
| 8 MHz     | 65 dB   | 22.5 dB |
| 10 MHz    | 65 dB   | 22.8 dB |
| 16 MHz    | 63 dB   | 23.4 dB |
| 20 MHz    | 61 dB   | 23.7 dB |
| 25 MHz    | 59.2 dB | 24 dB   |
| 31.25 MHz | 57.3 dB | 23 dB   |
| 62.5 MHz  | 51.3 dB | 20 dB   |
| 100 MHz   | 47.3 dB | 18 dB   |
| 200 MHz   | 41.4 dB | 15 dB   |
| 250 MHz   | 39.5 dB | 14 dB   |
| 300 MHz   | 37.2 dB | 12.8 dB |

### Temperature Range

|                                 |                |
|---------------------------------|----------------|
| Installation Temperature Range: | -10°C To +60°C |
| Storage Temperature Range:      | -40°C To +70°C |
| Operating Temperature Range:    | -10°C To +60°C |

### Mechanical Characteristics

|                                  |                          |
|----------------------------------|--------------------------|
| Min Bend Radius (Overall Cable): | 2.75 in.                 |
| Tool Compatibility:              | RVUTT01 Termination Tool |
| Plug /Jack Compatibility:        | RJ45, REVConnect Core    |
| Termination Rear Connection:     | Mated Connection         |

#### Termination Interface

| Termination              | Connection       | Durabilities |
|--------------------------|------------------|--------------|
| Cable End 1 - RJ45       | Mated Connection | 750 Cycles   |
| Cable End 2 - RevConnect | Mated Connection | 200 Cycles   |

### Standards

|                     |  |
|---------------------|--|
| UL Rating:          | UL94 V-0, UL1863   |
| Data Category:      | Category 6   |
| TIA/EIA Compliance: | Category 6 - TIA 568.2-D, ISO/IEC 11801:2002 Ed.2  |
| IEEE Compliance:    | 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) |
| Other Standards:    | FCC Part 68, Subpart F, IEC 60603-7  |

### Applicable Environmental and Other Programs

|                             |        |
|-----------------------------|--------|
| MII Order #39 (China RoHS): | EUP 50 |
|-----------------------------|--------|

### Suitability

|                        |                  |
|------------------------|------------------|
| Suitability - Indoor:  | Yes              |
| Suitability - Outdoor: | Yes - Cable only |

### Flammability, LS0H, Toxicity Testing

|                 |                |
|-----------------|----------------|
| Safety Listing: | c(UL)us Listed |
|-----------------|----------------|

### Related Part Numbers

|                |            |
|----------------|------------|
| Related Parts: | REVConnect |
|----------------|------------|

#### Variants

| Item #          | Color | Put-Up Type | Length |
|-----------------|-------|-------------|--------|
| RV6FFPUBK18O-S1 | Black | Single Pack | 0.45 m |

### History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.67 Revision Date: 04-08-2022 |
|----------------------|---|

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