



Product: [RVAFFPUBK18O-S1](#)



REVConnect 10GX I/O FlexPlug, CAT6A, Bonded-Pair, 1/Pack, 4 Pair, 23 AWG Solid, T568A/B-T568A/B

Product Description

REVConnect 10GX I/O FlexPlug, CAT6A, 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: | 10GX System, TIA Category 6A, ISO Class EA, 10G 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 |
| 400 MHz | 33.7 dB | 10.9 dB |
| 500 MHz | 30.9 dB | 9.5 dB |
| 625 MHz | 28.3 dB | 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 6A |
| TIA/EIA Compliance: | Category 6A - 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, LSOH, Toxicity Testing

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

Related Part Numbers

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

Variants

| Item # | Color | Packaging | Put-Up Type | Length | UPC |
|-----------------|-------|---|-------------|--------|--------------|
| RVAFFPUBK18O-S1 | Black | Individually packaged in a clear plastic bag. | Single Pack | 0.45 m | 611589247443 |

History

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| Update and Revision: | Revision Number: 0.88 Revision Date: 05-10-2023 |
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