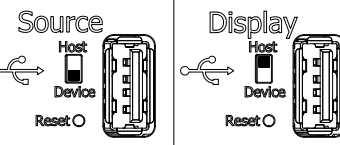## 7 — PRODUCT INFORMATION/SETTINGS:

USB HOST & DEVICE SWITCH

Host: Select Host when connecting USB port to a computer.

Device: Select Device when connecting USB port to a USB device: i.e. USB memory

Important:

- Each extender (Source or Display) must be set to either Host or Device, they cannot be set to the same setting.

- If the Host/Device switch is changed while extenders are powered, the extender must be reset by pressing the reset button or power cycling.
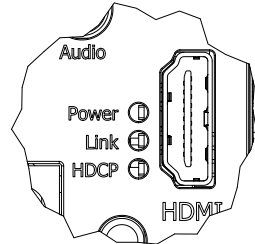
LED INDICATOR LIGHTS

Power Light: Indicates device has power when illuminated

Link Light: Indicates proper termination and compliance with TIA 568 C.2 transmission standard. Light will flash when device is in power stand by mode.

HDCP Light: Will be illuminated solid when transmitting encrypted video and will flash when non-encrypted video is transmitted.

TROUBLE SHOOTING GUIDE

No Power:

   Step 1: Verify green Power indication LED is illuminated on both devices.
      If blinking make sure monitor and video source are powered and HDMI cables are plugged in.
   Step 2: Check 5VDC, polarity and termination on rear of device. 4.7 VDC min needs to be supplied.
   Step 3: Verify on/off switch is "ON" at the power supply (AVPS), LED light should be green.

No Link:

   Step 1: Verify Link indication LED is green on both devices.

   Step 2: Verify proper category cable termination. (Color code, seating of the conductors and stuffer caps)

   Step 3: Verify category cable does not exceed recommended distances. (see chart)

No HDCP:

   Step 1: HDCP indication LED should be green or blinking on both devices.
   •Solid green = encrypted video   •Blinking = Non-encrypted
   Step 2: Check "source" DVD Player/Computer and "display" monitor/projector firmware have been updated.
   (reboot all devices after updates)

Reset Button:

   Last Step: Use end of paper clip to depress reset button on each extender.

No USB:
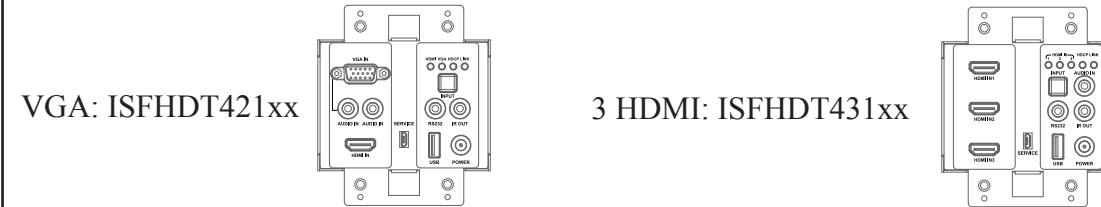   Confirm switch configuration

---
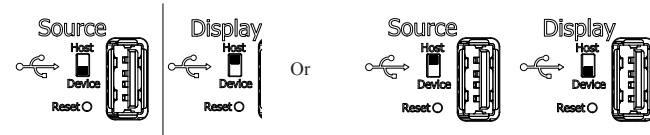
This Instruction sheet applies to the following Hubbell catalogs:
ISFHD4BK : INCLUDES ONE SOURCE AND ONE DISPLAY EXTENDER WITH HARDWARE
ISFHDT4BK : INCLUDES ONE SOURCE EXTENDER WITH HARDWARE
ISFHDR4BK : INCLUDES ONE DISPLAY EXTENDER WITH HARDWARE
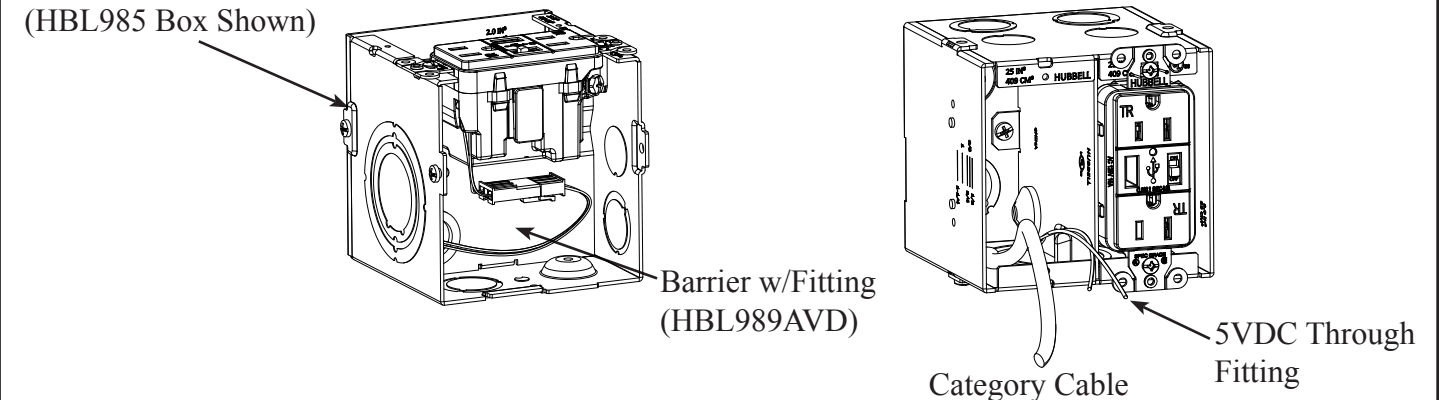
ISFHDx4xx series
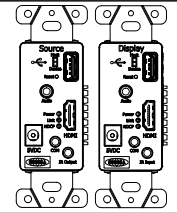
NOTE: SOURCE AND DISPLAY EXTENDERS CANNOT BE INTERCHANGED

*Use the following Hubbell extenders not outlined in these instructions for extending VGA and up to 3 HDMI inputs.
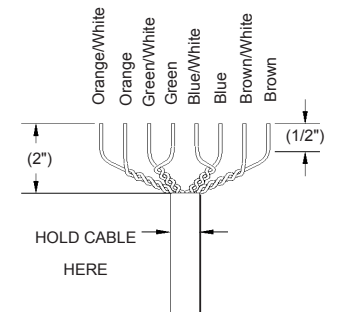
VGA: ISFHDT421xx   3 HDMI: ISFHDT431xx

1 — PREWIRE:

Min Box Depth = 3.0"   See Step 5 for DC & Category Cable lengths

(HBL985 Box Shown)

Barrier w/Fitting
(HBL989AVD)

Category Cable

5VDC Through Fitting

2 — AV: CAT 5E/6/6A TERMINATION:

CATEGORY 6A RECOMMENDED FOR BEST PERFORMANCE.

110 Termination Tool Required

Brown
Brown Wht.
Blue
Blue Wht.
Green
Green Wht.
Orange
Orange Wht.

Orange/White, Orange, Green/White, Green, Blue/White, Blue, Brown/White, Brown

HOLD CABLE HERE
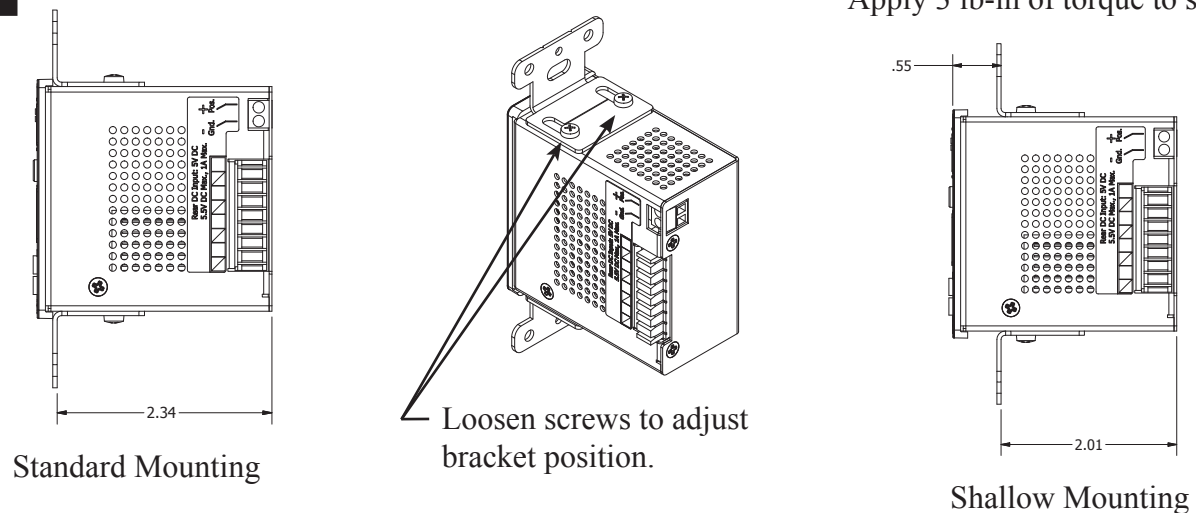
(2")   (1/2")
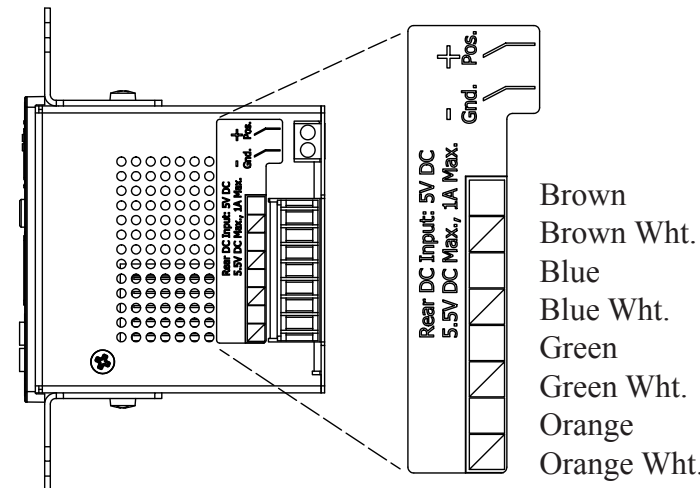
Install Stuffer Caps after termination

3 DC INPUT:

Maintain proper polarity; connect to a Class 2, UL Listed transformer with appropriate voltage and current rating, (5VDC min to 5.5 VDC max, 1.2A min) or Hubbell AVPS15xx or AVPS20xx.

DC Screw Terminal input
Apply 1.7 lb-in of torque to screws
Red
Black

*AVPSxxxx
(sold seperately)

* See Step 5 for DC Wire length limits

HDMIDC5V
(sold seperately)

Front 5VDC Input
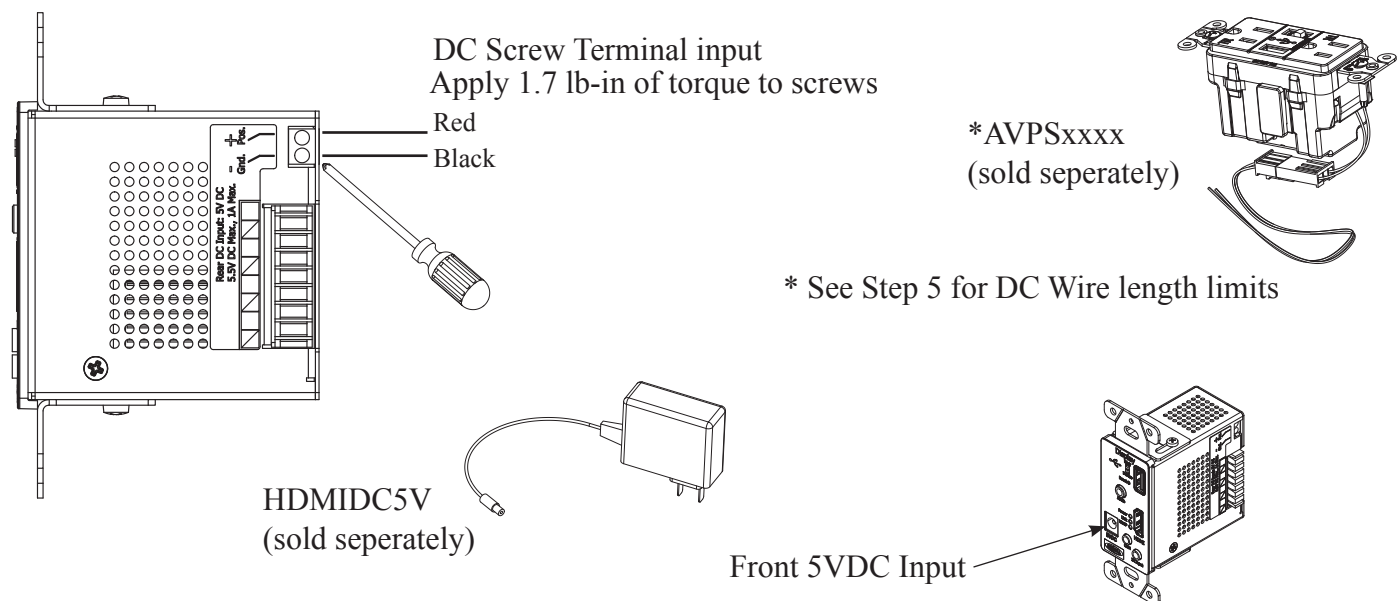
4 DEVICE MOUNTING:

Apply 3 lb-in of torque to screws

.55

2.34

Loosen screws to adjust bracket position.

Standard Mounting

2.01

Shallow Mounting

5 WIRING SPECIFICATIONS:

Max # Bundled Cables by length that supports video up to 4K-2K, @ 60Hz

	30M	50M	70M	100M
Cat 5e	5	3	1	1*
Cat 6	No Limit	4	2	1
Cat6A/7	No Limit	No Limit	No Limit	No Limit

*Up to 1080p, 60Hz, 36bpp.

Hubbell recommends category 6A UTP or higher cable.

UL2468 DC Hook-up Wire Length			
Gauge AWG	16	18	24
Length (Ft)	50	25	5
Length (M)	15.2	7.6	1.5

6 CONNECTIONS & INSTALLATION:

Com Port: Bidirectional RS232 @ 115.2kbps max, control port.

RX
TX
GND

USB Port: USB 2.0 up to 100M

IR Control Port: 3.5 mm
IR Input: Frequency 455 KHz. Max.
Peak wavelength 950nm.
IR Output: Frequency 30 to 60 KHz.
Peak wavelength 950nm.

Audio Port: 3.5mm Stereo, Source is input, Display is output.

Optional Hubbell IR Extender Kit: **AVIR**
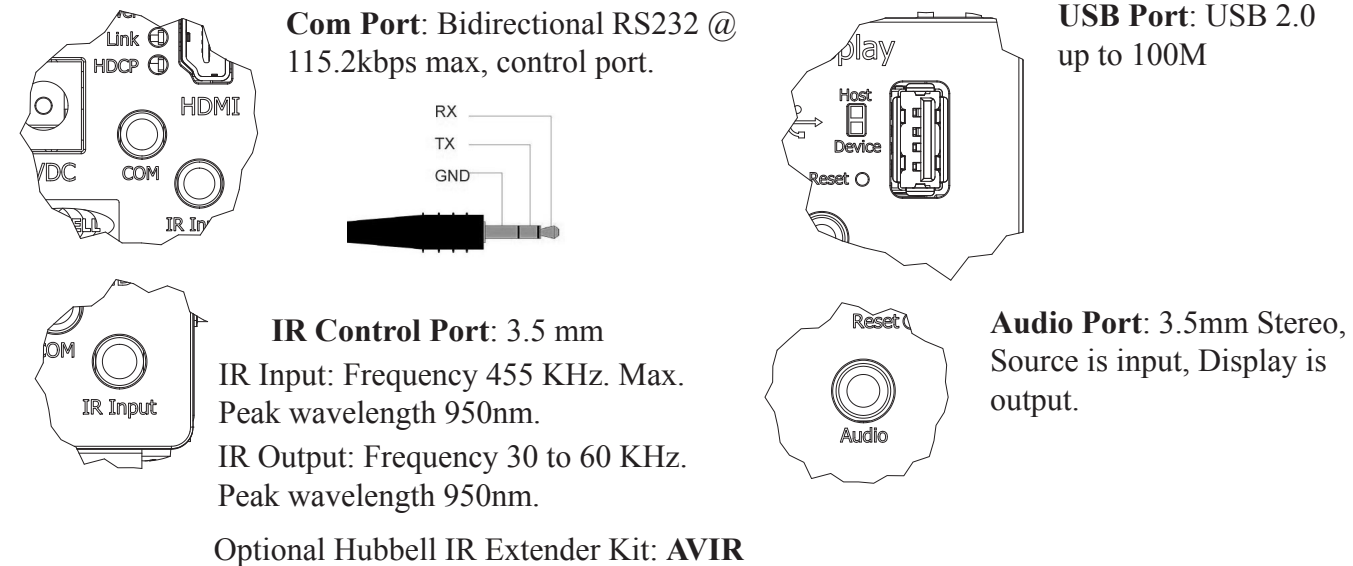
Ambient Operating Temperature: 50F (10C) to 104F (40C)

Data Cable

Source

Display