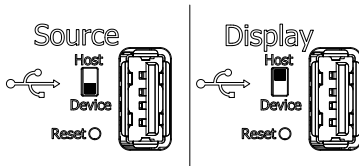


## USB HOST &amp; DEVICE SWITCH

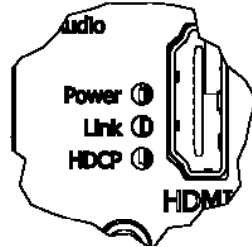
Host: Select Host when connecting USB port to a computer.

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 HDBaseT data transmission requirements. 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.

## TROUBLESHOOTING 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. 5 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 100 Meters.

No HDCP:

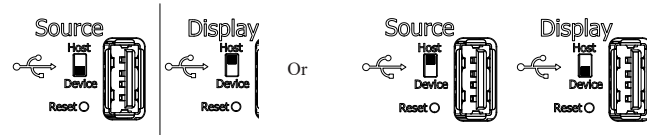
- Step 1: HDCP indication LED should be green or blinking on both devices.
  - Solid green = encrypted video
  - Blinking = Non-encrypted
- Step 2: Check “source” DVD Player/Computer and “display” monitor/projector firmware have been updated.  
(reboot all devices after updates)

Reset Button:

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

No USB:

Confirm switch configuration



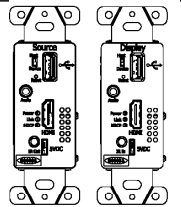
This Instruction sheet applies to the following Hubbell catalogs:

ISFHD5BK : INCLUDES ONE SOURCE AND ONE DISPLAY EXTENDER WITH HARDWARE

ISFHDT5BK : INCLUDES ONE SOURCE EXTENDER WITH HARDWARE

ISFHDR5BK : INCLUDES ONE DISPLAY EXTENDER WITH HARDWARE

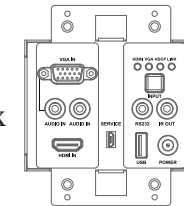
ISFHDx5xx series



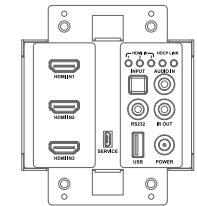
NOTE: SOURCE AND DISPLAY EXTENDERS CANNOT BE INTERCHANGED

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

VGA: ISFHDT421xx



3 HDMI: ISFHDT431xx



ISFHDT421xx & ISFHDT431xx Extenders support video up to 4K-2K, @ 30Hz with Category 6A or higher UTP cable up to 100 Meters.

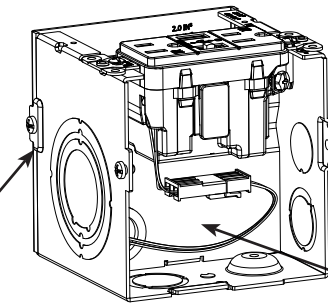
1

PREWIRE:

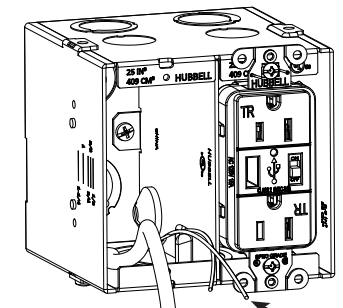
Min Box Depth = 3.0"

See Step 5 for DC & Category Cable lengths

(HBL985 Box Shown)



Barrier w/Fitting  
(HBL989AVD)

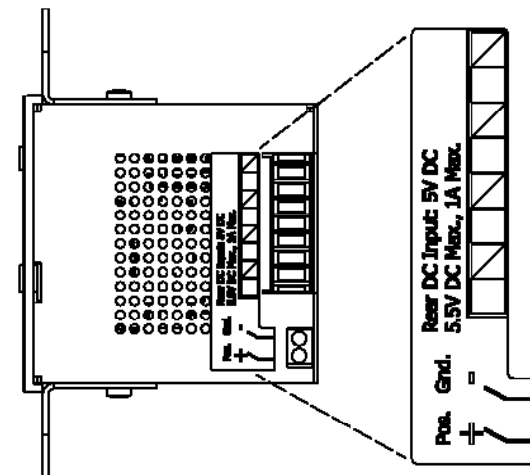


Category Cable  
5VDC Through Fitting

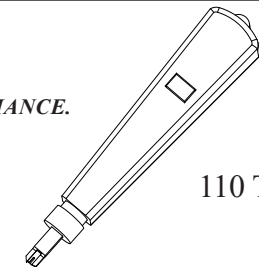
2

AV: CAT 6A TERMINATION:

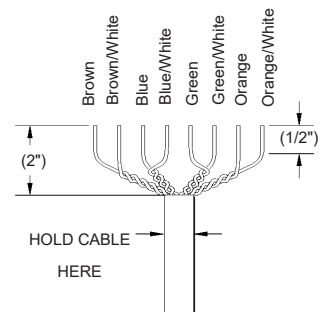
CATEGORY 6A OR HIGHER RECOMMENDED FOR BEST PERFORMANCE.



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



110 Termination Tool Required



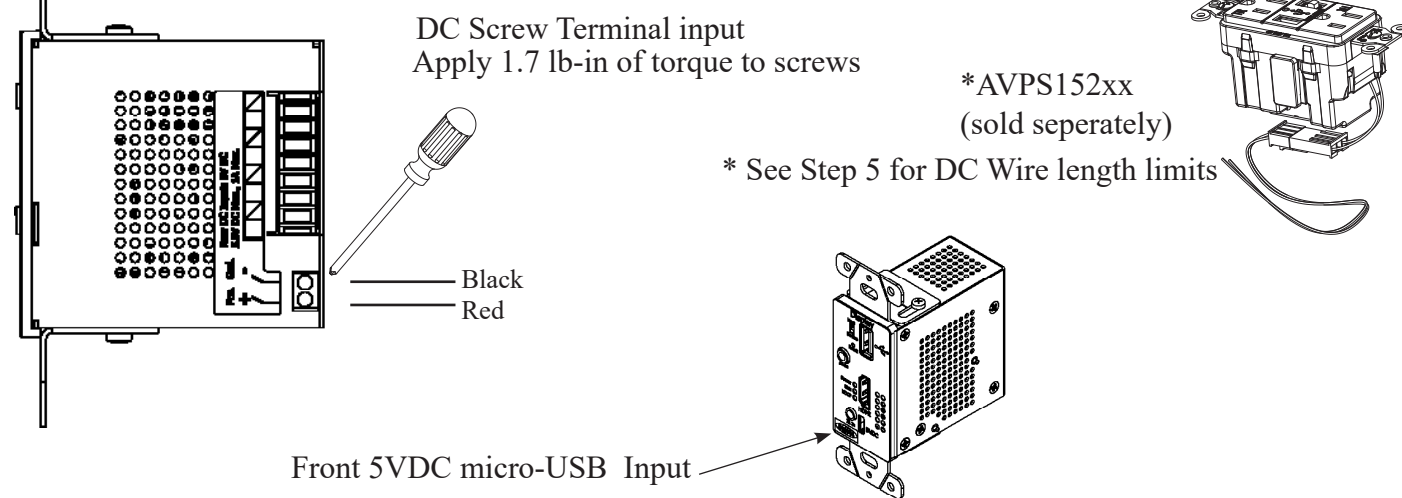
Install Stuffer Caps after termination

3

**DC INPUT:**

Control No. HWS772134 Page 2 of 4  
Rev. 1 Date: 4/20/22

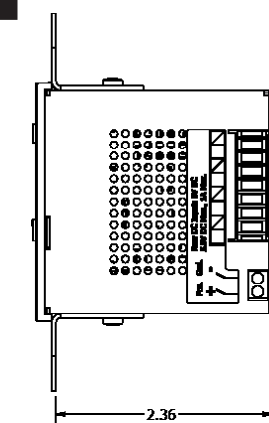
Connect power to Display and Source modules. Modules can be powered via rear screw terminals or front micro-USB input, Maintain proper polarity; connect to a Class 2, UL Listed transformer with appropriate voltage and current rating, (5VDC min to 5.5 VDC max, 1.2A min) or Hubbell AVPS152xx.



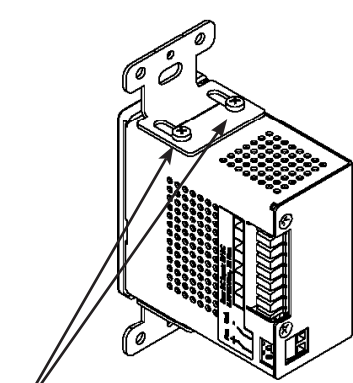
4

**DEVICE MOUNTING:**

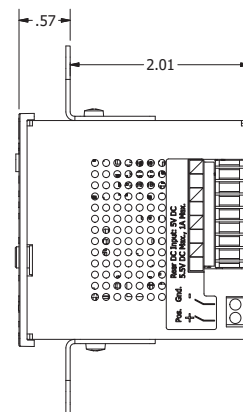
Apply 3 lb-in of torque to screws



Standard Mounting



Loosen screws to adjust  
bracket position.



Shallow Mounting

5

**WIRING SPECIFICATIONS:**

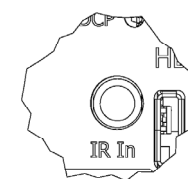
Hubbell recommends category 6A UTP or higher cable. ISFHDx5xx series supports video up to 4K-2K, @ 60Hz with no limit to the number of bundled cables up to 100 Meters when C6A or higher UTP cable is used.

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:**

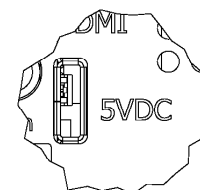
Control No. HWS772134 Page 3 of 4  
Rev. 1 Date: 4/20/22

**IR Control Port:** 3.5 mm

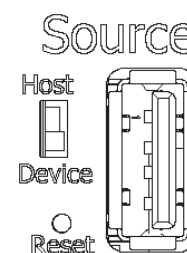
IR Input: Frequency 455 KHz. Max.  
Peak wavelength 950nm.

IR Output: Frequency 30 to 60 KHz.  
Peak wavelength 950nm.

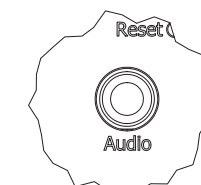
Optional Hubbell IR Extender Kit: **AVIR**



**5VDC Port:** Micro USB,  
Port is for supplying 5VDC  
power and for factory and  
field updates only.



**SB Port:** USB 2.0  
p to 100M



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

Ambient Operating Temperature: 50F (10C) to 104F (40C)

