# CAT-5 BALUNS



## NILES CAT-5 BALUNS: CONNECTIVITY SOLUTIONS WITH MIX-AND-MATCH VERSATILITY

Niles CAT-5 Baluns simplify installations, provide additional flexibility, and reduce costs wherever long cable runs are required. Niles CAT-5 Baluns also make it possible to expand systems in homes and buildings already wired with CAT-5 cable. Used in pairs, every Niles Balun was designed with a specific application in mind: from sending analog audio to an upstairs bedroom, to sending HDMI signals across the house to the family room. Niles makes two versions of each balun: a clean, low profile wall-mount and a compact chassis style. They can be mixed and matched to create a custom solution for any installation project. And since they're made by Niles, you know they're rugged and reliable. In fact, most come with a limited ten-year warranty to ensure years of trouble-free performance.

## HDMI CAT-5 Baluns

### CAT-5 HDMI Transmit Balun

## C5-HDMI T

Stock Number

FG01565

**Features**

- Shielded CAT-5 connectors
- Compatible with HDMI resolutions from 480i to 1080p
- A Transmitter and Receiver Balun are required for a complete system
- Uses two runs of CAT-5 cable
- HDCP compliant
- HDMI version 1.3 compliant
- Compatible with CAT-5, CAT-5e & CAT-6 UTP and STP

**Specifications**

- Overall dimensions: 4.75" (120.7 mm) W x .85" (21.6 mm) H x 2" (50.8 mm) D
- Transmission Distance at each resolution*:
  - o 480i, 480p, 720p and 1080i–up to 200 feet (61 m)
  - o 1080p–up to 100 feet (30.5 m)
- 5V power supply included

**Warranty: Two-year limited**

**Shipping weight: 1 lb.**

*Actual performance may vary based on multiple factors unique to the installation

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### CAT-5 Wall Mount HDMI Transmit Balun

## C5-HDMI TWM

Stock Number

FG01566

**Features**

- Shielded CAT-5 connectors
- Compatible with HDMI resolutions from 480i to 1080p
- A Transmitter and Receiver Balun are required for a complete system
- Uses two runs of CAT-5 cable
- HDCP compliant
- HDMI version 1.3 compliant
- Compatible with CAT-5, CAT-5e & CAT-6 UTP and STP
- 1-Gang Decora® Style
- Decora® wall plate included

**Specifications**

- Overall dimensions: 4.75" (120.7 mm) W x .85" (21.6 mm) H x 2" (50.8 mm) D
- Transmission Distance at each resolution*:
  - o 480i, 480p, 720p and 1080i–up to 200 feet (61 m)
  - o 1080p–up to 100 feet (30.5 m)
- 5V power supply included

**Warranty: Two-year limited**

**Shipping weight: 1 lb.**

*Actual performance may vary based on multiple factors unique to the installation

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### CAT-5 HDMI Receive Balun

## C5-HDMI R

Stock Number

FG01564

**Features**

- Shielded CAT-5 connectors
- Compatible with HDMI resolutions from 480i to 1080p
- A Transmitter and Receiver Balun are required for a complete system
- Uses two runs of CAT-5 cable
- HDCP compliant
- HDMI version 1.3 compliant
- Compatible with CAT-5, CAT-5e & CAT-6 UTP and STP

**Specifications**

- Overall dimensions: 4.75" (120.7 mm) W x .85" (21.6 mm) H x 2" (50.8 mm) D
- Transmission Distance at each resolution*:
  - • 480i, 480p, 720p and 1080i–up to 200 feet (61 m)
  - • 1080p–up to 100 feet (30.5 m)0'
- 5V power supply included with Transmit models

**Warranty: Two-year limited**

**Shipping weight: 1 lb.**

*Actual performance may vary based on multiple factors unique to the installation

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### CAT-5 Wall Mount HDMI Receive Balun

## C5-HDMI RWM

Stock Number

FG01567

**Features**

- Shielded CAT-5 connectors
- Compatible with HDMI resolutions from 480i to 1080p
- A Transmitter and Receiver Balun are required for a complete system
- Uses two runs of CAT-5 cable
- HDCP compliant
- HDMI version 1.3 compliant
- Compatible with CAT-5, CAT-5e & CAT-6 UTP and STP
- 1-Gang Decora® Style
- Decora® wall plate included

**Specifications**

- Overall dimensions: 4.75" (120.7 mm) W x .85" (21.6 mm) H x 2" (50.8 mm) D
- Cut out size: 1.87" (47.5 mm) W x 3.00" (76.2 mm) H x 2.50" (63.50 mm) D
- Transmission Distance at each resolution*:
  - • 480i, 480p, 720p and 1080i–up to 200 feet (61 m)
  - • 1080p–up to 100 feet (30.5 m)
- 5V power supply included with Transmit models

**Warranty: Two-year limited**

**Shipping weight: 1 lb.**

*Actual performance may vary based on multiple factors unique to the installation

**SPECIFICATIONS SHEET**

## Audio - CAT-5 Baluns

### CAT-5 Stereo Audio Balun

### C5-A2

Stock Number

FG01281

**Features**
- CAT-5 connector
- Gold-Plated Color Coded RCA Connectors
- Universal Mounting Holes

**Specifications**
- Overall dimensions:
  4.75" (120.7 mm) W x .85" (21.6 mm) H x 2" (50.8 mm) D

- Bandwidth: 20 Hz – 20 kHz
- Transmission Distance:
  2,000' (CAT-3 UTP)
  2,500' (CAT-5 UTP)

**Warranty: Ten-year limited**

**Shipping weight: 1 lb.**

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### CAT-5 Stereo Audio Wall Mount Balun

### C5-A2WM

Stock Number

FG01367

**Features**
- CAT-5 connector
- Gold-Plated Color Coded RCA Connector
- 1-Gang Decora Style
- Decora Wall Plate Included

**Specifications**
- Overall dimensions:
  1.75" (44.45 mm) W x 2.84" (72.14 mm) H x 1.99" (50.55 mm) D

- Cut out size:
  1.87" (47.5 mm) W x 3.00" (76.2 mm) H x 2.50" (63.50 mm) D
- Bandwidth: 20 Hz – 20 kHz
- Transmission Distance:
  2,000' (CAT-3 UTP)
  2,500' (CAT-5 UTP)

**Warranty: Ten-year limited**

**Shipping weight: 1 lb**

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### CAT-5 Digital Audio Balun

### C5-DA

Stock Number

FG01279

**Features**
- CAT-5 connector
- Gold-Plated Color Coded RCA Connector
- Universal Mounting Holes

**Specifications**
- Overall dimensions:
  4.75" (120.7 mm) W x .85" (21.6 mm) H x 2" (50.8 mm) D

- Bandwidth: 25 MHz, – 1 dB
- Transmission Distance: 600' (180 m)

**Warranty: Ten-year limited**

**Shipping weight: 1 lb.**

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### CAT-5 Digital Audio Wall Mount Balun

### C5-DAWM

Stock Number

FG01368

**Features**
- CAT-5 connector
- Gold-Plated Color Coded RCA Connector
- 1-Gang Decora Style
- Decora Wall Plate Included

**Specifications**
- Overall dimensions:
  1.75" (44.45 mm) W x 2.84" (72.14 mm) H x 1.99" (50.55 mm) D

- Cut out size:
  1.87" (47.5 mm) W x 3.00" (76.2 mm) H x 2.50" (63.50 mm) D
- Bandwidth: 25 MHz – 1 dB
- Transmission Distance:
  600' (180 m)

**Warranty: Ten-year limited**

**Shipping weight: 1 lb.**

**SPECIFICATIONS SHEET**

## CAT-5 Video Balun

### C5-V

Stock Number

FG01278

**Features**
- CAT-5 connector
- Gold-Plated Color Coded RCA Connector
- Universal Mounting Holes

**Specifications**
- Overall dimensions: 4.75" (120.7 mm) W x .85" (21.6 mm) H x 2" (50.8 mm) D
- Bandwidth: Video: DC to 10 MHz

- Transmission Distance:
  Color: 1,500' (CAT-3 UTP)
  2,200' (CAT-5 UTP)
  B&W: 2,000' (CAT-3 UTP)
  2,500' (CAT-5 UTP)

**Warranty: Ten-year limited**

**Shipping weight: 1 lb.**

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## CAT-5 Video Wall Mount Balun

### C5-VWM

Stock Number

FG01369

**Features**
- CAT-5 connector
- Gold-Plated Color Coded RCA Connector
- 1-Gang Decora Style
- Decora Wall Plate Included

**Specifications**
- Overall dimensions: 1.75" (44.45 mm) W x 2.84" (72.14 mm) H x 1.99" (50.55 mm) D

- Cut out size: 1.87" (47.5 mm) W x 3.00" (76.2 mm) H x 2.50" (63.50 mm) D
- Bandwidth: DC to 10 MHz
- Transmission Distance:
  Color: 1,500' (CAT-3 UTP)
  2,200' (CAT-5 UTP)
  B & W: 2,000' (CAT-3 UTP)
  2,500' (CAT-5 UTP)

**Warranty: Ten-year limited**

**Shipping weight: 1 lb.**

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## CAT-5 S-Video Balun

### C5-SV

Stock Number

FG01273

**Features**
- CAT-5 connector
- Gold-Plated S-Video DIN Connector
- Universal Mounting Holes

**Specifications**
- Overall dimensions: 4.75" (120.7 mm) W x .85" (21.6 mm) H x 2" (50.8 mm) D

- Bandwidth:
  Y: DC to 6 MHz
  C: 1 MHz to 6 MHz
- Transmission Distance: 500' (150 m) (CAT-5 UTP)

**Warranty: Ten-year limited**

**Shipping weight: 1 lb.**

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## CAT-5 S-Video Wall Mount Balun

### C5-SVWM

Stock Number

FG01370

**Features**
- CAT-5 connector
- Gold-Plated S-Video DIN Connector
- 1-Gang Decora Style
- Decora Wall Plate Included

**Specifications**
- Overall dimensions: 1.75" (44.45 mm) W x 2.84" (72.14 mm) H x 1.99" (50.55 mm) D

- Cut out size: 1.87" (47.5 mm) W x 3.00" (76.2 mm) H x 2.50" (63.50 mm) D
- Bandwidth:
  Y: DC to 6 MHz
  C: 1 MHz to 6 MHz
- Transmission Distance: 500' (150 m) (CAT-5 UTP)

**Warranty: Ten-year limited**

**Shipping weight: 1 lb.**

**SPECIFICATIONS SHEET**

## CAT-5 VGA Balun

### C5-VGA

Stock Number

FG01274

**Features**
- Shielded CAT-5 connector
- **Requires shielded CAT-5 cable**
- DB-15HD Connector
- Universal Mounting Holes

**Specifications**
- Overall dimensions:
  4.75" (120.7 mm) W x .85"
  (21.6 mm) H x 2" (50.8 mm) D
- Bandwidth:
  0 – 50 MHz, -3 dB at 165' (50 m)

- Transmission Distance:
  CAT-5 STP:

  640 x 480 pixels, 50 Hz
  (15 MHz): 330' (100 m)

  800 x 600 pixels, 60 Hz
  (30 MHz): 330' (100 m)

  1024 x 768 pixels, 75 Hz
  (60 MHz): 250' (75 m)

  1280 x 1024 pixels, 75 Hz
  (100 MHz): 165' (50 m)

**Warranty: Ten-year limited**

**Shipping weight: 1 lb.**

## CAT-5 VGA Wall Mount Balun

### C5-VGAWM

Stock Number

FG01371

**Features**
- Shielded CAT-5 connector
- **Requires shielded CAT-5 cable**
- DB-15HD Connector
- 1-Gang Decora Style
- Decora Wall Plate Included

**Specifications**
- Overall dimensions:
  1.75" (44.45 mm) W x 2.84"
  (72.14 mm) H x 1.99" (50.55 mm) D
- Cut out size:
  1.87" (47.5 mm) W x 3.00"
  (76.2 mm) H x 2.50" (63.50 mm) D

- Bandwidth:
  0 – 50 MHz, -3 dB at 165' (50 m)
- Transmission Distance:
  CAT-5 STP:

  640 x 480 pixels, 50 Hz
  (15 MHz): 330' (100 m)

  800 x 600 pixels, 60 Hz
  (30 MHz): 330' (100 m)

  1024 x 768 pixels, 75 Hz
  (60 MHz): 250' (75 m)

  1280 x 1024 pixels, 75 Hz
  (100 MHz): 165' (50 m)

**Warranty: Ten-year limited**

**Shipping weight: 1 lb.**

## CAT-5 S-Video & Stereo Audio Balun

### C5-SVA2

Stock Number

FG01275

**Features**
- CAT-5 connector
- Gold Plated Color Coded RCA Connectors
- Gold Plated S-Video DIN Connector
- Universal Mounting Holes

**Specifications**
- Overall dimensions:
  4.75" (120.7 mm) W x .85"
  (21.6 mm) H x 2" (50.8 mm) D

- Bandwidth:
  Y: DC to 6 MHz
  C: 1 MHz to 6 MHz
- Transmission Distance:
  S-Video: 500' (150 m) (CAT-5 UTP)

**Warranty: Ten-year limited**

**Shipping weight: 1 lb.**

## CAT-5 S-Video and Stereo Audio Wall Mount Balun

### C5-SVA2WM

Stock Number

FG01373

**Features**
- CAT-5 connector
- Gold Plated Color Coded RCA Connectors
- S-Video DIN Connector
- 1-Gang Decora Style
- Decora Wall Plate Included

**Specifications**
- Overall dimensions:
  1.75" (44.45 mm) W x 2.84"
  (72.14 mm) H x 1.99" (50.55 mm) D

- Cut out size:
  1.87" (47.5 mm) W x 3.00"
  (76.2 mm) H x 2.50" (63.50 mm) D
- Bandwidth:
  Y: DC to 6 MHz
  C: 1 MHz to 6 MHz
- Transmission Distance:
  S-Video: 500' (150 m) (CAT-5 UTP)

**Warranty: Ten-year limited**

**Shipping weight: 1 lb.**

**SPECIFICATIONS SHEET**

**Audio/Video - CAT-5 Baluns**

## CAT-5 Video & Stereo Audio Balun

### C5-VA2

Stock Number

FG01280

**Features**
- CAT-5 connector
- Gold Plated Color Coded RCA Connectors
- Universal Mounting Holes

**Specifications**
- Overall dimensions: 4.75" (120.7 mm) W x .85" (21.6 mm) H x 2" (50.8 mm) D
- Bandwidth: Video: DC to 10 MHz, Audio: 20 Hz – 20 kHz

- Transmission Distance:
  Color: 1,500' (CAT-3 UTP)
  2,200' (CAT-5 UTP)
  B&W: 2,000' (CAT-3 UTP)
  2,500' (CAT-5 UTP)

**Warranty: Ten-year limited**

**Shipping weight: 1 lb.**

## CAT-5 Video and Stereo Audio Wall Mount Balun

### C5-VA2WM

Stock Number

FG01372

**Features**
- CAT-5 connector
- Gold Plated Color Coded RCA Connector
- 1-Gang Decora Style
- Decora Wall Plate Included

**Specifications**
- Overall dimensions: 1.75" (44.45 mm) W x 2.84" (72.14 mm) H x 1.99" (50.55 mm) D
- Cut out size: 1.87" (47.5 mm) W x 3.00" (76.2 mm) H x 2.50" (63.50 mm) D

- Bandwidth:
  Video: DC to 10 MHz
  Audio: 20 Hz – 20 kHz
- Transmission Distance:
  Color: 1,500' (CAT-3 UTP)
  2,200' (CAT-5 UTP)
  B & W: 2,000' (CAT-3 UTP)
  2,500' (CAT-5 UTP)

**Warranty: Ten-year limited**

**Shipping weight: 1 lb.**

## CAT-5 Component Video & Digital Audio Balun

### C5-HDDA

Stock Number

FG01276

**Features**
- CAT-5 connector
- Gold Plated Color Coded RCA Connectors
- Universal Mounting Holes
- Can be used with VS-6 Component Video Switcher

**Specifications**
- Overall dimensions: 4.75" (120.7 mm) W x .85" (21.6 mm) H x 2" (50.8 mm) D

- Bandwidth:
  Video: 0 – 60 MHz, – 3 dB
  Digital Audio: 25 MHz, – 1 dB
- Transmission Distance:
  Video, Color, CAT-5 UTP or STP:
  480i/p:1,000' (300 m)
  720p: 500' (150 m)
  1080i: 500' (150 m)
  Digital Audio: 500' (150 m)

**Warranty: Ten-year limited**

**Shipping weight: 1 lb.**

## CAT-5 Component Video & Digital Audio Wall Mount Balun

### C5-HDDAWM

Stock Number

FG01374

**Features**
- CAT-5 connector
- Gold Plated Color Coded RCA Connectors
- 1-Gang Decora Style
- Decora Wall Plate Included
- Can be used with VS-6 Component Video Switcher

**Specifications**
- Overall dimensions: 1.75" (44.45 mm) W x 2.84" (72.14 mm) H x 1.99" (50.55 mm) D

- Cut out size: 1.87" (47.5 mm) W x 3.00" (76.2 mm) H x 2.50" (63.50 mm) D
- Bandwidth:
  Video: 0 – 60 MHz, – 3 dB,
  Digital Audio: 25 MHz, – 1 dB
- Transmission Distance:
  Video, Color, CAT-5 UTP or STP:
  480i/p:1,000' (300 m)
  720p: 500' (150 m),
  1080i: 500' (150 m),
  Digital Audio: 500' (150 m)

**Warranty: Ten-year limited**

**Shipping weight: 1 lb.**

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# NILES®

## RF - CAT-5 Baluns

### CAT-5 Cable TV/Antenna Balun

## C5-RF

**Stock Number**

FG01277

**Features**
- ■ CAT-5 connector
- ■ Nickel Plated RF Connector
- ■ Universal Mounting Holes

**Specifications**
- ■ Overall dimensions:
  4.75" (120.7 mm) W x .85"
  (21.6 mm) H x 2" (50.8 mm) D

- ■ Bandwidth: 5 MHz to 550 MHz
- ■ Transmission Distance:
  Up to 330' (100 m) using
  CAT-5 UTP

**Warranty: Ten-year limited**

**Shipping weight: 1 lb.**

### CAT-5 Cable TV/Antenna Wall Mount Balun

## C5-RFWM

**Stock Number**

FG01375

**Features**
- ■ CAT-5 connector
- ■ RF Connector
- ■ 1-Gang Decora Style
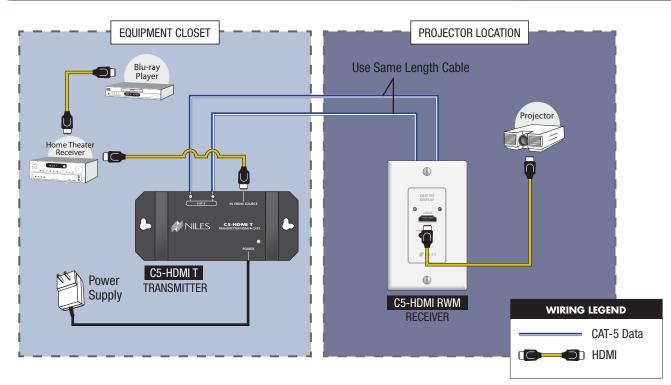- ■ Decora Wall Plate Included

**Specifications**
- ■ Overall dimensions:
  1.75" (44.45 mm) W x 2.84"
  (72.14 mm) H x 1.99" (50.55 mm) D

- ■ Cut out size:
  1.87" (47.5 mm) W x 3.00"
  (76.2 mm) H x 2.50" (63.50 mm) D
- ■ Bandwidth: 5 MHz to 550 MHz
- ■ Transmission Distance:
  Up to 330' (100 m) using
  CAT-5 UTP

**Warranty: Ten-year limited**

**Shipping weight: 1 lb.**

## CAT-5 Baluns Connection Diagram (Audio/Video Receiver to TV)



SPECIFICATIONS SHEET