

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Mueller Engineered Clips & Insulators

OVER 300 VARIETIES IN-STOCK AND READY FOR IMMEDIATE GLOBAL SHIPMENT



**GUARANTEED
RUGGED,
DURABLE &
RELIABLE**

Mueller's engineered clip designs feature *heavy-gauge* body, spring and rivet materials. Firm springs and sharp teeth yield clips with a strong "bite and hold" Competitive clips typically found in the market are less robust, poorly stamped, and inconsistently assembled. They often have a shorter life, requiring more frequent replacement. *Mueller clips have been tested to 1 million cycles and are designed to last.* No shortcuts or cost-saving tricks are used here. Not all clip insulators are the same. Mueller's insulators are specifically designed to fit the clip. Ill-fitting insulators can lead to electrical shocks or difficult clip operation. Mueller clips are offered in steel (plated with a choice of materials), 100% stainless steel, and copper. Over 300 varieties of clips and insulators are in-stock, and ready for immediate global shipment.

Reference Chart for Popular Clips & Insulator Styles

AMPS	JAW OPENING	WIRE ATTACHMENT	USE WITH INSULATOR	WIRE AWG	PLATING	CLIP NUMBER
5	3/16"	Crimp / Solder	BU-32*	20-24	Nickel	BU-30
5	3/16"	Crimp / Solder	BU-31*	18-24	Nickel	BU-30BL
5	3/16"	Crimp / Solder	BU-32*	20-24	Solid Copper	BU-30C
5	3/16"	Threaded	BU-31*	NA	Nickel	BU-30TBO
5	7/32"	Crimp / Solder	BU-36*	20-24	Nickel	BU-34
5	7/32"	Crimp / Solder	BU-36*	20-24	Copper	BU-34C
5	5/16"	Crimp / Solder	BU-47*	16-22	Zinc	BU-45
5	5/16"	Crimp / Solder	BU-72*	16-20	Nickel	BU-70
5	5/16"	Crimp / Screw	BU-72*	16-20	Nickel	BU-70S
5	5/16"	Crimp / Screw	BU-87*	14-20	Zinc	BU-85
5	1"	Crimp / Screw	JP-8681-*	Up to 10	Nickel / Silver	JP-25182
5	1"	Crimp / Screw	JP-8681-*	Up to 10	Nickel / Silver	JP-33699
5	1"	Crimp / Screw	JP-8681-*	Up to 10	Nickel / Silver	JP-33674
5	1"	Crimp / Screw	JP-8681-*	Up to 10	Nickel / Silver	JP-8078
5	1"	Crimp / Screw	JP-8681-*	Up to 10	Nickel / Silver	JP-8099
5	1"	Crimp / Screw	JP-8681-*	Up to 10	Nickel / Silver	JP-8783
10	1/4"	Crimp / Screw	Insulated	14-20	Nickel	BU-63
10	1/4"	Crimp / Screw	Insulated	14-20	Solid Copper	BU-63C
10	17/64"	Plug-On	Insulated	NA	Nickel	BU-651-*
10	5/16"	Crimp / Screw	BU-47*	16-22	Solid Copper	BU-45C
10	5/16"	Crimp / Solder / Plug-on	BU-62*	14-20	Nickel	BU-60
10	5/16"	Crimp / Solder / Plug-on	BU-62*	14-20	Solid Copper	BU-60C
10	5/16"	Crimp / Screw	Insul. Barrel	14-20	Solid Copper	BU-60CHS
10	5/16"	Crimp / Screw	BU-62*	14-20	Solid Copper	BU-60CS
10	5/16"	Crimp / Solder	Insul. Barrel	14-20	Nickel	BU-60H
10	5/16"	Crimp / Screw	Insul. Barrel	14-20	Nickel	BU-60HS
10	5/16"	Pin / Prod Tip	Insul. Barrel	NA	Nickel	BU-60HPR
10	5/16"	Pin / Prod Tip	BU-62*	NA	Nickel	BU-60PR2
10	5/16"	Crimp / Screw	BU-62*	14-20	Nickel	BU-60S
10	5/16"	Threaded	BU-62*	NA	Nickel	BU-60TBO
10	5/16"	Crimp / Solder	BU-62*	14-20	Nickel	BU-60U
10	5/16"	Crimp / Solder / Plug-On	BU-62*	14-20	Stainless Steel	BU-60X
10	5/16"	Pin / Prod Tip	BU-62*	NA	Nickel	BU-61
10	5/16"	Crimp / Solder	BU-72*	16-20	Copper	BU-70C
10	5/16"	Crimp / Screw	BU-72*	16-20	Copper	BU-70CS
10	5/16"	Screw	Insulated	NA	Gold	BU-75K
10	5/16"	Crimp / Screw	BU-87*	14-20	Solid Copper	BU-85C
10	7/16"	Crimp / Screw	BU-49*	14-20	Zinc	BU-55

AMPS	JAW OPENING	WIRE ATTACHMENT	USE WITH INSULATOR	WIRE AWG	PLATING	CLIP NUMBER
10	7/16"	Crimp / Screw	BU-74*	14-20	Zinc	BU-95
10	1/2"	Crimp / Screw	BU-49*	14-20	Zinc	BU-48B
10	1/2"	Crimp	BU-49*	14-20	Zinc	BU-4882E
10	1/2"	Solder	None	NA	Gold	BU-78K
15	3/4"	Crimp / Solder	Insulated	Up to 12	Nickel	BU-40A-*
20	17/64"	Plug-On	Insulated	NA	Nickel	BU-652-*
20	1/2"	Crimp / Screw	BU-49*	14-20	Solid Copper	BU-48C
20	1/2"	Crimp / Screw	BU-49*	14-18	Solid Copper	BU-50C
20	1/2"	Crimp / Screw	BU-49*	14-18	Solid Copper	BU-51C
20	5/8"	Crimp / Screw	BU-29/90*	Up to 12	Zinc	BU-27
20	5/8"	Crimp / Screw	BU-29/90*	Up to 12	Zinc	JP-5869-B
20	5/8"	Crimp / Screw	BU-29/90*	Up to 12	Zinc	JP-5869-C
20	3/4"	Crimp / Solder	Insulated	Up to 12	Nickel	BU-40C-*
20	1"	Plug-On	Insulated	NA	Nickel	BU-654-*
25	3/4"	Crimp / Screw	BU-26*	Up to 10	Zinc	BU-24APN/APSS
30	3/4"	Plug-on	Insulated	NA	Nickel	BU-65-*
30	51/64"	Plug-On	Insulated	NA	Nickel	BU-656-*
40	5/8"	Crimp / Screw	BU-29/90*	Up to 12	Solid Copper	BU-27C
40	5/8"	Crimp / Screw	BU-29/90*	Up to 12	Solid Copper	BU-27CG
40	5/8"	Crimp / Screw	BU-29/90*	Up to 12	Solid Copper	BU-27CGW
40	3/4"	Crimp / Screw	BU-26*	Up to 10	Zinc	BU-25
50	1 1/16"	Crimp / Screw	BU-23*	Up to 8	Zinc	BU-21APN/APSS
50	1 1/8"	Crimp / Solder	Insulated	Up to 10	Copper	BU-46A-*
75	3/4"	Crimp / Screw	BU-26*	Up to 10	Solid Copper	BU-25C
75	1 1/8"	Crimp / Solder	Insulated	Up to 10	Solid Copper	BU-46C-*
100	1 1/16"	Lug	BU-23*	Up to 8	Solid Copper	BU-21CPN/CPS
100	1 5/8"	Lug	BU-13*	Up to 3/0	Zinc	BU-11APN/APSS
200	1 9/16"	Crimp / Solder	Insulated	Up to 1	Copper	BU-41A-*
200	1 5/8"	Lug	BU-13*	Up to 3/0	Solid Copper	BU-11CPN/CPS
300	1 1/2"	Lug	Insulated	Up to 0	Copper	BU-102B-*
300	1 1/2"	Lug	Insulated	Up to 0	Copper	BU-102BK-*
300	1 13/16"	Lug	BU-35*	Up to 300MCM	Solid Copper	BU-33C
400	1 1/2"	Lug	Insulated	Up to 0	Copper	BU-102W-*
400	1 1/2"	Crimp	Insulated	Up to 1	Copper Jaws	BU-X15400-*
400	1 9/16"	Crimp / Solder	Insulated	Up to 1	Solid Copper	BU-41C-*

TO ORDER PRODUCTS IN VARIOUS LENGTHS & COLORS USE THIS KEY TO PROVIDE THE CORRECT PART NUMBER

BU - 00000 - *
PART NUMBER COLOR

*COLOR KEY:
0=BLACK 2=RED 4=YELLOW
5=GREEN 6=BLUE 9=WHITE



CLIPS & INSULATORS

Mueller clips are the industry standard. Our design reflects 100+ years of innovation and improvement. Mueller clips assure teeth that bite, springs that hold, plating that lasts and insulators that protect.

CLIPS & INSULATORS

Model # BU-30/BU-30C/BU-30X

Miniature Alligator

Solder or crimp connection. Jaw opens 0.188" (4.8 mm) max

Material: nickel-plated steel (BU-30) or solid copper (BU-30C) or 304SS (BU-30X)

Length: 1.1" (27.78mm)

Federal Spec: CID AA59466-001 (BU-30C)

Rating: 5 Amps

Uses insulator BU-32-*



Model # BU-30TBO

Miniature Alligator with Threaded Barrel

6-32 threaded steel barrel connection

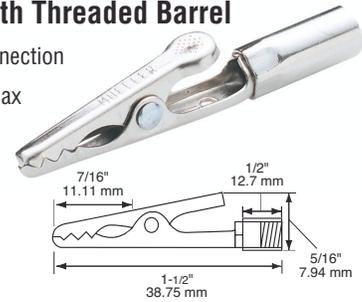
Jaw opens 0.188" (4.8 mm) max

Material: nickel-plated steel

Length: 1.5" (38.75mm)

Rating: 5 Amps

Uses insulator BU-31-*



Model # BU-32-*

Insulator for Miniature Alligator

Protective flexible vinyl insulator for 30, 30C, 30X

Material: PVC

Length: 1.63" (41.28mm)

***Std.** -0 Black,

Colors: -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White



Model # BU-31-*

Insulator for Mini Alligator Barrel/Threaded Barrel

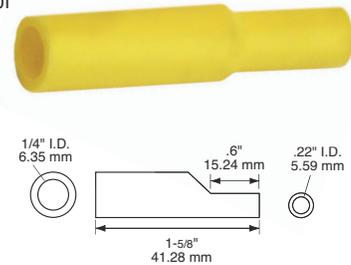
Protective flexible vinyl insulator for 30BL, 30TBO

Material: PVC

Length: 1.63" (41.28mm)

***Std.** -0 Black,

Colors: -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White



Model # BU-30BL

Miniature Alligator with Barrel

Solder or crimp connection

Jaw opens 0.188" (4.8 mm) max

Material: nickel-plated steel

Length: 1.25" (31.75mm)

Rating: 5 Amps

Uses insulator BU-31-*



Model # BU-34/BU-34C/BU-34X

Micro-Alligator

Solder or crimp connection

Jaw opens 0.22" (5.6 mm) max

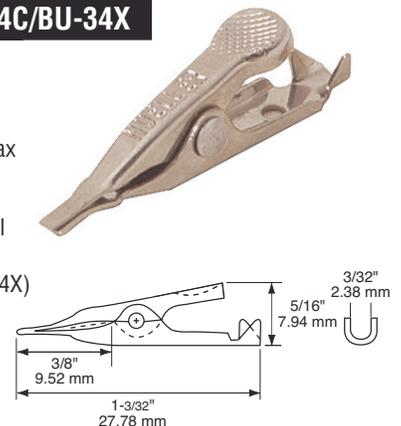
Nose width .07" (1.7 mm)

Material: nickel-plated steel (BU-34) or solid copper (BU-34C) or 304SS (BU-34X)

Length: 1.09" (27.78mm)

Rating: 5 Amps

Uses insulator BU-36-*





Model # BU-36-*

Insulator for Micro Alligator

Protective flexible vinyl insulator for 34, 34C, 34X

Material: PVC

Length: 1.22" (30.95mm)

- *Std.** -0 Black,
 -2 Red,
 -4 Yellow,
 -5 Green,
 -6 Blue,
 -9 White



Model # BU-60PR2

Probe Tip Alligator Clip

Accepts standard .080" (2mm) probe tip or test probe tip

Jaw opens 0.31" (7.9 mm) max

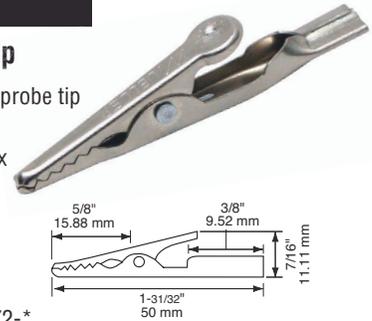
Material: nickel-plated steel

Length: 1.97" (50mm)

Rating: 10 Amps

Use insulator BU-62-* or BU-72-*

Also available is Model #BU-60PR1 which accepts a .125" (3.1mm) Probe



Model # BU-60/BU-60C/BU-60X

Alligator Clip with Barrel

Compatible with all shrouded, unshrouded, or retractable 0.16" (4mm) banana plugs

Solder or crimp connection

Jaw opens 0.31" (7.9 mm) max

Material: nickel-plated steel (BU-60), solid copper (BU-60C), 304 stainless steel (BU-60X)

Length: 1.97" (50mm)

Rating: 10 Amps

Uses insulator BU-62-* or BU-72-*



Model # BU-60TBO

Threaded Barrel Alligator Clip

8-32 threaded barrel connection

Jaw opens 0.31" (7.9 mm) max

Material: nickel-plated steel

Length: 2.13" (53.97mm)

Rating: 10 Amps

Uses insulator BU-62-* or BU-72-*



Model # BU-60S/BU-60CS*

Alligator Clip with Screw

Compatible with all shrouded, unshrouded, or retractable 0.16" (4mm) banana plugs

6-40 screw connection

Jaw opens 0.31" (7.9 mm) max

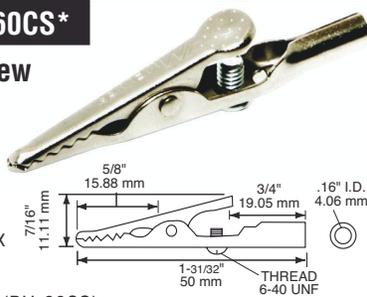
Material: nickel-plated steel (BU-60S) or solid copper (BU-60CS)

Length: 1.97" (50mm)

Federal Spec CID AA59466-002 (BU-60CS)

Rating: 10 Amps

Uses insulator BU-62-* or BU-72-*



Model # BU-60U

Alligator Clip

Solder or crimp connection

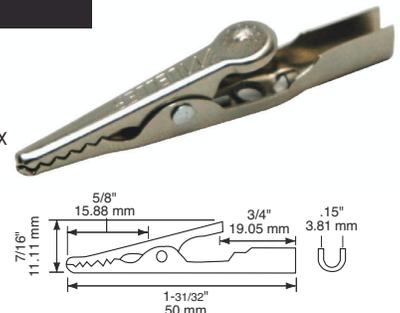
Jaw opens 0.31" (7.9 mm) max

Material: nickel-plated steel

Length: 1.97" (50mm)

Rating: 10 Amps

Uses insulator BU-62-* or BU-72-*





CLIPS & INSULATORS

Color Key

0 Black	2 Red	4 Yellow
5 Green	6 Blue	9 White

CLIPS & INSULATORS

Model # BU-61

Alligator Clip with Cage Spring Barrel

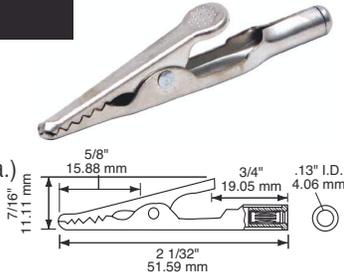
Cage spring connection accepts standard probe needle (0.080 dia.)
Jaw opens 0.31" (7.9 mm) max

Material: nickel-plated steel clip, nickel-plated brass insert, gold plated beryllium copper cage spring

Length: 2.03" (51.59mm)

Rating: 10 Amps

Uses insulator BU-62-* or BU-72-*



Model # BU-60HS-*/BU-60CHS-*

Alligator Clip with Acetate Handle and Screw

Compatible with all unshrouded, or retractable 0.16" (4mm) banana plugs
Jaw opens 0.31" (7.9 mm) max

Material: (BU-60HS-*) nickel-plated steel or (BU-60CHS-*) solid copper clip

Length: 2.34" (59.53mm)

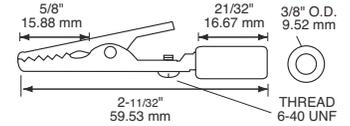
***Std.** -0 Black, -2 Red,

Colors: -4 Yellow, -5 Green, -6 Blue, -9 White

Federal AA59466-003 (red), (BU-6CHS-2)

Spec: AA59466-016 (black), (BU-60CHS-0)

Rating: 10 Amps



Model # BU-62-*

Insulator for Alligator Clips

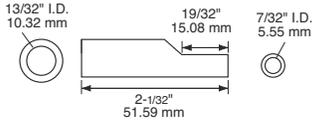
Protective flexible vinyl insulator for 60, 60C, 60CS, 60PR2, 60S, 60TBO, 60U, 60X and 61

Material: PVC

Length: 2.03" (51.59mm)

***Std.** -0 Black,

Colors: -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White



Model # BU-60HPR-*

Probe Tip Alligator Clip with Acetate Handle

Accepts standard probe tip or test probe tip

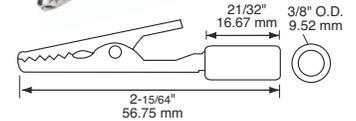
Material: nickel-plated steel clip

Length: 2.23" (56.75mm)

***Std.** -0 Black, -2 Red,

Colors: -4 Yellow, -5 Green, -6 Blue, -9 White

Rating: 10 Amps



Model # BU-60H-*

Alligator Clip with Acetate Handle

Compatible with all unshrouded, or retractable 0.16" (4mm) banana plugs

Jaw opens 0.31" (7.9 mm) max

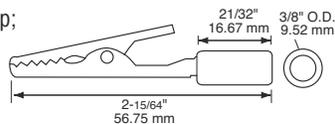
Material: nickel-plated steel clip;

Length: 2.23" (56.75mm)

***Std.** -0 Black,

Colors: -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White

Rating: 10 Amps



Model # BU-63-*/BU-63C-*

Insulated Alligator Clip

BU-63-* same as BU-60S and includes a skin-tight, two-piece, flexible insulator
BU-63C-* same as BU-60CS and includes a skin-tight, two piece, flexible insulator

Compatible with all shrouded, unshrouded, or retractable 0.16" (4mm) banana plugs

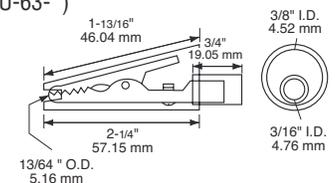
Material: nickel-plated steel (BU-63-*) or solid copper (BU-63C-*)

Length: 2.25" (57.15mm)

***Std.** -0 Black, -2 Red,

Colors: -4 Yellow, -5 Green, -6 Blue, -9 White

Rating: 10 Amps





Model # BU-70/BU-70C

Alligator Clip

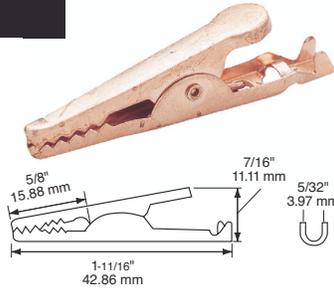
Solder or crimp connection
Jaw opens 0.313" (7.9 mm) max

Material: nickel-plated steel (BU-70) or solid copper (BU-70C)

Length: 1.69" (42.86mm)

Rating: 5 Amps (BU-70) or 10 Amps (BU-70C)

Uses insulator BU-72-*



Model # BU-85/BU-85C

Crocodile Clip

Crimp or screw connection
Jaw opens 0.313" (7.9 mm) max
Nesting teeth provide solid contact along entire length of jaw

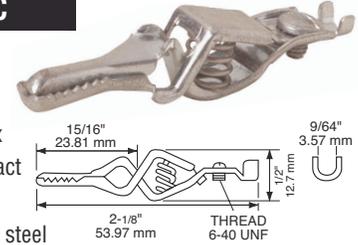
Material: (BU-85) zinc-plated steel or (BU-85C) solid copper

Length: 2.125" (53.97mm)

Federal Spec: AA59466-005 (BU-85C)

Rating: 5 Amps (BU-85) or 10 Amps (BU-85C)

Uses insulator BU-87-*



Model # BU-70S/BU-70CS

Alligator Clip with Screw

6-40 screw or crimp connection
Jaw opens 0.313" (7.9 mm) max

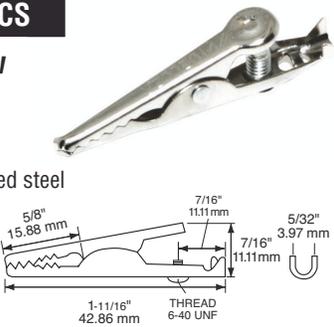
Material: (BU-70S) nickel-plated steel or (BU-70CS) solid copper

Length: 1.69" (42.86mm)

Federal Spec: AA59466-0017 (BU-70CS)

Rating: 5 Amps (BU-70S) or 10 Amps (BU-70CS)

Uses insulator BU-72-*



Model # BU-87-*

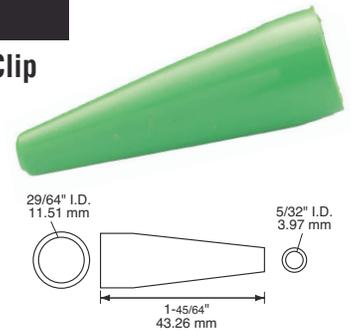
Insulator for Crocodile Clip

Protective flexible vinyl insulator for 85, 85C

Material: PVC

Length: 1.7" (43.26mm)

***Std.** -0 Black,
Colors: -2 Red, -4 Yellow,
-5 Green, -6 Blue,
-9 White



Model # BU-72-*

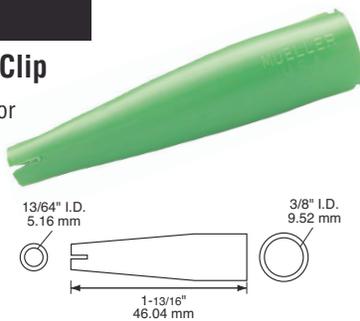
Insulator for Alligator Clip

Protective flexible vinyl insulator for 70, 70C, 70CS, 70S, 60, 60C, 60S, 60CS, 60X

Material: PVC

Length: 1.81" (46.04mm)

***Std.** -0 Black,
Colors: -2 Red, -4 Yellow,
-5 Green, -6 Blue,
-9 White



Model # BU-651-*

Small Safety Alligator Clip

Compatible with all unshrouded, or retractable 0.16" (4mm) banana plugs
Jaw opens 0.27" (7 mm) max

Material: nickel-plated steel clip, glass-filled nylon housing

Length: 2.24" (57mm)

***Std.** -0 Black,
Colors: -2 Red

Rating: 300 V Category II or 150 Category III
10 Amps, IEC 1010 Compliant





CLIPS & INSULATORS

Color Key

0 Black	2 Red	4 Yellow
5 Green	6 Blue	9 White

CLIPS & INSULATORS

Model # BU-652-*

Small Safety Alligator Clip with Extended Banana Jack

Compatible with all shrouded, unshrouded, or retractable 0.16" (4mm) banana plugs

Jaw opens 0.27" (7 mm) max

Material: nickel-plated steel clip, glass-filled nylon housing

Length: 3.24" (82mm)

***Std. Colors** -0 Black, -2 Red

Rating: 300 V Category II, or 150 V Category III, 20 Amps, IEC 1010 Compliant



Model # BU-45/BU-45C

Pee-Wee Clip

Screw or crimp connection

Jaw opens 0.31" (7.9 mm) max

Material: (BU-45) zinc-plated steel or (BU-45C) solid copper

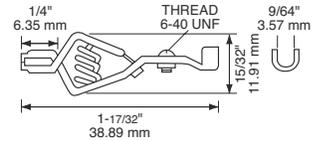
Length: 1.53" (38.89mm)

Federal CID AA59466-006

Spec: (BU-45C)

Rating: 5 Amps (BU-45) or 10 Amps (BU-45C)

Uses insulator BU-47-*



Model # BU-65-*

Large Safety Alligator Clip

Compatible with all shrouded, unshrouded, or retractable 0.16" (4mm) banana plugs

Jaw opens 0.75" (19 mm) max

Material: nickel-plated steel clip, glass-filled nylon housing

Length: 3.23" (82.04mm)

***Std.** -0 Black,

Colors: -2 Red, -4 Yellow, -5 Green, -6 Blue

Rating: 1000 V, 30 Amps, IEC 1010 Compliant
UL Listed



Model # BU-47-*

Insulator for Pee-Wee Clip

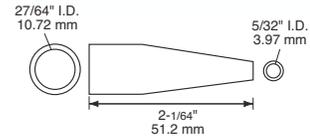
Protective flexible vinyl insulator for 45, 45C

Material: PVC

Length: 2.02" (51.2 mm)

***Std.** -0 Black,

Colors: -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White



Model # BU-110-*

Fully Insulated Mini Clip

Compatible with all shrouded, unshrouded, or retractable .016" (4mm) banana plugs. Jaw opens 0.31" (7.9mm)

Material: Nickel plated steel & nylon

Length: 1.65" (42mm)

***Std. Colors:** -0 Black, -2 Red

Rating: 300V, 6 Amps



Model # BU-55

Economy Clip

Screw or crimp connection

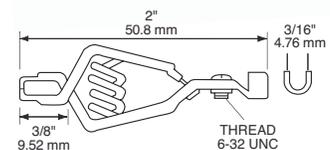
Jaw opens 0.44" (11.1 mm) max

Material: zinc-plated steel

Length: 2" (50.8mm)

Rating: 10 Amps

Uses insulator BU-49-*





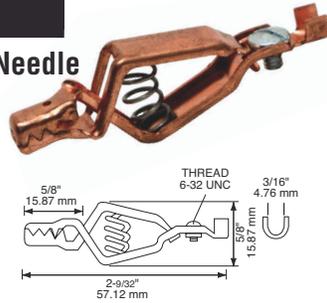
Model # BU-50C

Meter Testing Clip with Needle

Has a solid beryllium copper piercing needle in the top jaw.
Jaw opens .5" (12.5mm)

Excellent for quick connection to insulated wire.

- Material:** Solid Copper
- Length:** 2.28" (57.12mm)
- Rating:** 20 Amps
- Uses insulator BU-49-*

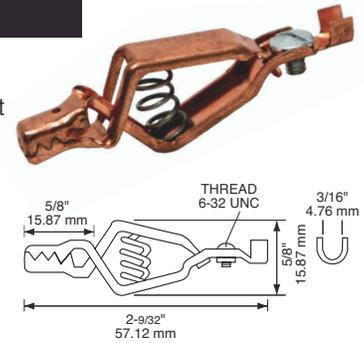


Model # BU-51C

Meter Testing Clip

Same as BU-50C except without insulation piercing needle
Jaw opens 0.5" (12.7 mm) max

- Material:** Solid copper
- Length:** 2.28" (57.12mm)
- Rating:** 20 Amps
- Uses insulator BU-49-*

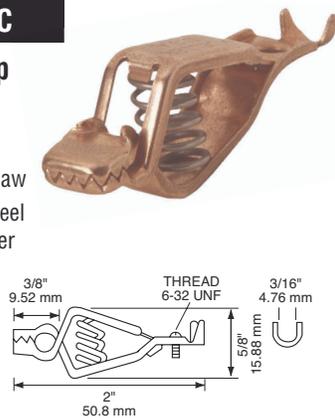


Model # BU-48B/BU-48C

Automotive Analyzer Clip

Screw or crimp connection
Jaw opens 0.5" (12.7 mm) max
Teeth mesh on three sides of the jaw

- Material:** (BU-48B) zinc-plated steel or (BU-48C) solid copper
- Length:** 2" (50.8mm)
- Federal Spec:** CID AA59466-007 (BU-48C)
- Rating:** 10 Amps (BU-48B) or 20 Amps (BU-48C)



Model # BU-49-*

Insulator for Automotive Analyzer Clip

Protective flexible vinyl insulator for 48B, 48B2E, 48C, 50C, 51C, 55, 95

- Material:** PVC
- Length:** 2.56" (65.09mm)
- *Std.** -0 Black,
- Colors:** -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White

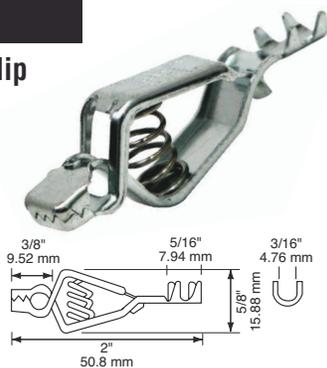


Model # BU-48B2E

Automotive Analyzer Clip

Double crimp connection
Jaw opens 0.5" (12.7 mm) max

- Material:** zinc-plated steel
- Length:** 2" (50.8mm)
- Rating:** 10 Amps
- Uses insulator BU-49-*

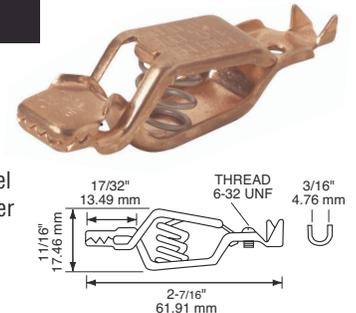


Model # BU-27/BU-27C

General Purpose Clip

Crimp or screw connection;
Jaw opens 0.625" (16 mm) max

- Material:** (BU-27) zinc-plated steel or (BU-27C) solid copper
- Length:** 2.44" (61.9mm)
- Federal Spec:** CID AA59466-008 (BU-27C)
- Rating:** 20 Amps (BU-27) or 40 Amps (BU-27C)
- Uses insulator BU-29-* or BU-90-*





CLIPS & INSULATORS

Color Key

0 Black	2 Red	4 Yellow
5 Green	6 Blue	9 White

CLIPS & INSULATORS

Model # BU-27CG/BU-27CGW

Geophone Clip

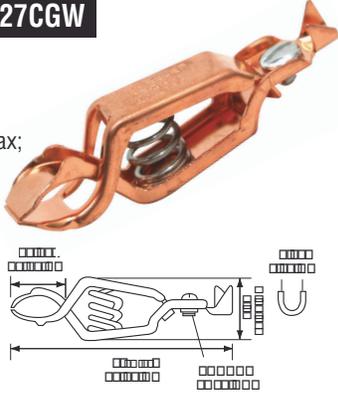
Crimp or screw connection;
Jaw opens 0.625" (16 mm) max;
Curved jaws clip on to
seismograph rings

Material: solid copper;
Spring: steel

Length: 2.4" (61.1mm)

Rating: 40 Amps

Uses insulator BU-29-*
or BU-90-*



Model # BU-24APN/BU-24APS

Heavy Duty Clip

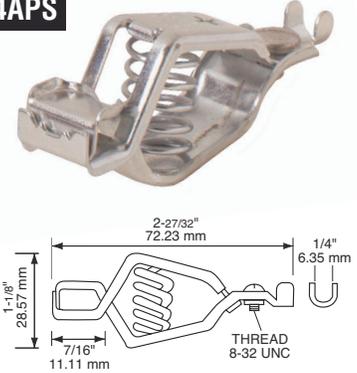
Crimp or screw connection; Jaw
opens 0.75" (19 mm) max; clip
unmarked (BU-24APN) and
marked positive (BU-24APS)

Material: zinc-plated steel;
Spring: steel

Length: 2.84" (72.23mm)

Rating: 25 Amps

Uses insulator BU-26-*



Model # BU-29-*

Insulator for General Purpose/Geophone Clips

Protective flexible vinyl insulator for
27, 27C, 27CG, 27CGW

Material: PVC

Length: 3.5" (88.9mm)

***Std.** -0 Black,

Colors: -2 Red,
-4 Yellow, -5 Green,
-6 Blue, -9 White



Model # BU-25/BU-25C

Automotive Clip

Crimp or screw connection; Jaw
opens 0.75" (19 mm) max; teeth
mesh on three sides of the jaw

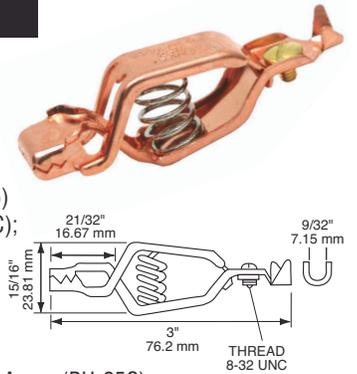
Material: zinc-plated steel (BU-25)
or solid copper (BU-25C);
Spring: steel

Length: 3" (76.2mm)

Federal Spec: CID AA59466-009
(BU-25C)

Rating: 40 Amps (BU-25) or 75 Amps (BU-25C)

Uses insulator BU-26-*



Model # BU-90-*

Insulator for General Purpose/Geophone Clips

Protective flexible vinyl insulator for
27, 27C, 27CG and 27CGW

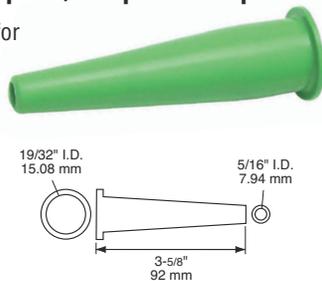
Accepts larger wires or cables
than BU-29-*

Material: PVC

Length: 3.375" (92mm)

***Std.** -0 Black,

Colors: -2 Red,
-4 Yellow, -5 Green,
-6 Blue, -9 White



Model # BU-26-*

Insulator for Automotive Clip

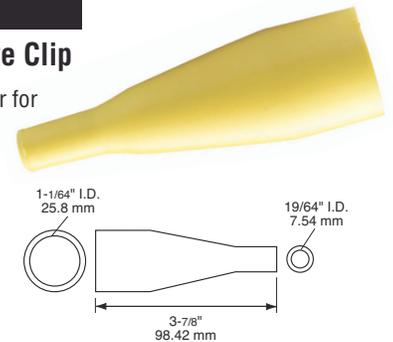
Protective flexible vinyl insulator for
24A, 25, 25C

Material: PVC

Length: 3.88" (98.4 mm)

***Std.** -0 Black,

Colors: -2 Red,
-4 Yellow,
-5 Green,
-6 Blue, -9 White





Model # BU-21APN/BU-21APS/BU-21CPN/BU-21CPS

Heavy Duty Clip for Battery and Test Work

Crimp or screw connection; copper version (21C) equipped with removable copper lug; Jaw opens 1.06" (27 mm) max; clip unmarked (BU-21APN/CPN) and marked positive (BU-21APS/CPS)

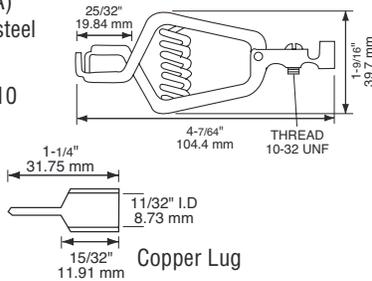
Material: zinc-plated steel (21A) or solid copper (21C); Spring: steel

Length: 4.11" (104.4mm)

Federal Spec: CID AA59466-010 (BU-21CPN)

Rating: 50 Amps (21A) or 100 Amps (21C)

Uses insulator BU-23-*



Model # BU-13-*

Insulator for Heavy Duty Clip

Protective flexible vinyl insulator for 11A, 11C

Material: PVC

Length: 6.8" (173mm)

***Std.** -0 Black, -2 Red,

-4 Yellow, -5 Green,

-6 Blue, -9 White



Model # BU-23-*

Insulator for Heavy Duty Battery Test Clip

Protective flexible vinyl insulator for 21A, 21C

Material: PVC

Length: 5" (127mm)

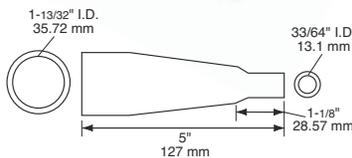
***Std.** -0 Black,

-2 Red,

-4 Yellow,

-5 Green,

-6 Blue, -9 White



Model # BU-33C

Welding Clip "BIG BRUTE"

Lug connection

Jaw opens 1.81" (46 mm) max

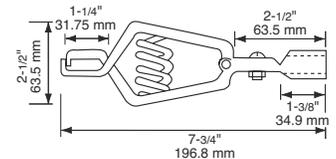
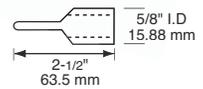
Material: solid copper

Length: 7.75" (196.8mm)

Federal Spec: CID AA59466-012

Rating: 300 Amps

Uses insulator BU-35-*



Model # BU-11APN/BU-11APS/BU-11CPN/BU-11CPS

Heavy Duty Clip for Grounding Applications

BU-11 series clips have a lug connection

Jaw opens 1.625" (41.3 mm) max

Clip unmarked (BU-11APN/CPN) and marked positive (BU-11APS/CPS)

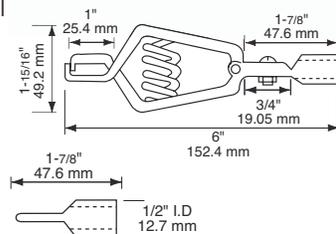
Material: zinc-plated steel (11A) or solid copper (11C); Spring: steel

Length: 6" (152.4 mm)

Federal Spec: CID AA59466-011 (BU-11CPN)

Rating: 100 Amps (11A) or 200 Amps (11C)

Uses insulator BU-13-*



Model # BU-35-*

Insulator for Welding Clip

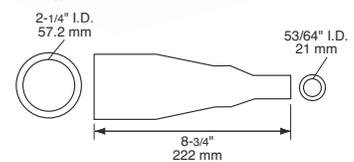
Protective flexible vinyl insulator for 33C

Material: PVC

Length: 8.75" (222mm)

***Std.** -0 Black,

-2 Red,





CLIPS & INSULATORS

Color Key

0	Black	2	Red	4	Yellow
5	Green	6	Blue	9	White

CLIPS & INSULATORS

Model # BU-58

Grounding Clamp

Attaches to pipe up to 1 3/8" outer diameter

Material: zinc-plated steel
Length: 2.31" (58.75mm)
Rating: 50 Amps



Model # BU-46PR-*

Insulator for Miniature Plier-Type Clip

Protective flexible vinyl insulator for BU-46

Material: PVC
Length: 1.7" (43.18mm)
***Std.** -0 Black,
Colors: -2 Red,



Model # BU-40A-*/BU-40C-*

Micro Plier-Type Clip

Solder or crimp connection
 Jaw opens 0.75" (19 mm) max

Material: (BU-40A) nickel-plated steel or (BU-40C) solid copper
Length: 2.3" (58mm)
***Std.** -0 Black,
Colors: -2 Red,
Rating: 15 Amps (BU-40A), 20 Amps (BU-40C)



Model # BU-41A-*/BU-41APN/BU-41C-*/BU-41CPN

Plier-Type Clip

Jaw opens 1.625" (41.3 mm) max
 Locks on to both side and top mounted battery terminals

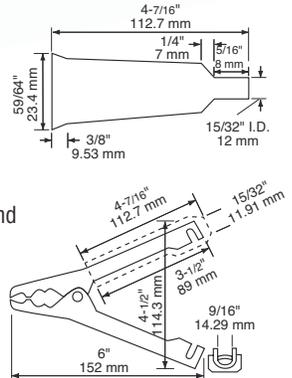
Material: copper-plated steel (BU-41A) or solid copper (BU-41C), PVC insulator (BU-43PR-*)

Length: 6" (152mm)
***Std.** Insulator (BU-43PR-*)
Colors: in -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White



Federal Spec: CID AA59466-014 BU-41-CPS-VZZZ-2 (red) and CID AA59466-015, BU-41CPN-VZZZ-0 (black)

Rating: 200 Amps (41A) or 400 Amps (41C)



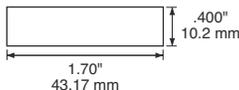
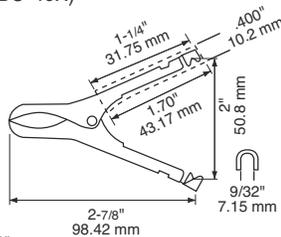
Model # BU-46A-*/BU-46C-*/BU-46X

Miniature Plier-Type Clip

Solder or crimp connection
 Jaw opens 1.125" (28.6 mm) max

Material: copper-plated steel (BU-46A) or solid copper (BU-46C), 304SS (BU-46X) PVC insulator (BU-46PR-*)

Length: 2.88" (98.42mm)
***Std.** Insulator (BU-46PR-*)
Colors: in -0 Black, -2 Red
Rating: 50 Amps (46A) or 75 Amps (46C)



Model # BU-43PR-*

Insulator Pair for Plier-Type Clip

Protective flexible vinyl insulator for BU-41

Material: PVC
Length: 4.4" (112.73mm)
***Std.** -0 Black,
Colors: -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White





Model # BU-102B-*/BU-102BK-*

Insulated Battery Clip

Solder lug connection. Fully insulated clip with serrated jaws; BU-102BK-* has Kelvinized isolated jaws and no copper shunt

Material: Housing: glass filled nylon;
Jaw: copper; Spring: music wire, zinc plated

Length: 6.5" (165mm)

***Std.** -0 Black,

Colors: -2 Red

Rating: 300 Amps



Model # BU-75K

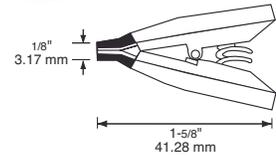
Kelvin Clip

Screw connection. Jaw opens 0.313" (7.9 mm) max. Isolated jaws

Material: Silver/Gold tip contacts, nylon housing

Length: 1.625" (41.28mm)

Rating: 10 Amps



Model # BU-102W-*

Insulated Welding Clip

Solder lug connection. Fully insulated clip with serrated contact pad and braided copper shunt

Material: Housing: glass filled nylon;
Jaw: copper;
Spring: music wire, zinc plated

Length: 6.5" (165mm)

***Std.** -0 Black,

Colors: -2 Red

Rating: 400 Amps



Model # BU-78K

Kelvin Clip

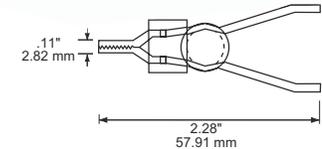
Solder connection. Jaw opens 0.5" (12 mm) max. Isolated jaws

Material: Gold contacts

Length: 2.28" (57.91mm)

Rating: 10 Amps

Wires run through channel in thimbal and solder into holes under the silicone spring.



Model # BU-X15400-*

Epoxy Coated Battery Clip

Solder/crimp connection. Jaw opens 1.50" (38.1 mm) max. Locks on to both side and top mounted battery terminals

Material: steel, epoxy coated clips with copper plated jaws

Length: 6.75" (171.45mm)

***Std. Colors:** -0 Black, -2 Red

Rating: 200 Amps



Model # BU-P2240-*

Alligator Clip & Insulator, (10 Pack)

Ten Each of BU-60 Alligator Clips and BU-62-* Insulators in a convenient bag

***Std. Colors:** -0 Black, -2 Red,





CLIPS & INSULATORS

CLIPS & INSULATORS

Model # JP-25182-***

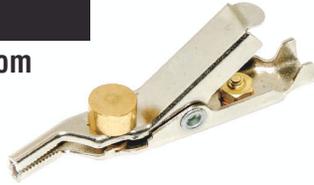
Small Angled Nose Telecom Clip with Bed of Nails

Mueller – J.S. Popper brand.
Jaw opens 1.0" (25.4mm).
Uses bed of nails to pierce insulation

Material: nickel-silver jaws; includes brass screw, brass nut, brass washer, and bronze star washer

Length: 2.34" (59.4mm)

Connection -N Without Hardware, -L With Loose Hardware,
Options: -J Banana Jack, -TJ Threaded Banana Jack
-S Nickel plated steel version of clip



Model # JP-8783-***

Large Angled Nose Telecom Clip with Bed of Nails and Single Spike

Mueller – J.S. Popper brand. Jaw opens 1.0" (25.4mm). Uses single spike and bed of nails to pierce insulation

Material: nickel-silver jaws; includes brass screw, brass nut, brass washer, and bronze star washer

Length: 2.61" (66.4mm)

Connection -N Without Hardware, -L With Loose Hardware,
Options: -J Banana Jack, -TJ Threaded Banana Jack
-S Nickel plated steel version of clip



Model # JP-8099-***

Large Angled Nose Telecom Clip with Single Spike

Mueller – J.S. Popper brand
Jaw opens 1.0" (25.4mm)
Uses single spike to pierce insulation

Material: nickel-silver jaws; includes brass screw, brass nut, brass washer, and bronze star washer

Length: 2.34" (59.4mm)

Connection -N Without Hardware, -L With Loose Hardware,
Options: -J Banana Jack, -TJ Threaded Banana Jack



Model # JP-33699-***

Large Straight Nose Telecom Clip with Single Spike

Mueller – J.S. Popper brand. Jaw opens 1.0" (25.4mm)
Uses single spike to pierce insulation

Material: nickel-silver jaws; includes brass screw, brass nut, brass washer, and bronze star washer

Length: 2.61" (66.4mm)

Connection -N Without Hardware, -L With Loose Hardware,
Options: -J Banana Jack, -TJ Threaded Banana Jack



Model # JP-8078-***

Large Angled Nose Telecom Clip with Hex Screw Attached Single Spike

Mueller – J.S. Popper brand
Jaw opens 1.0" (25.4mm)
Uses single spike to pierce insulation

Material: nickel-silver jaws; includes brass screw, brass nut, brass washer, and bronze star washer

Length: 2.34" (59.4mm)

Connection -N Without Hardware, -L With Loose Hardware,
Options: -J Banana Jack, -TJ Threaded Banana Jack



Model # JP-33674-***

Large Straight Nose Telecom Clip with Bed of Nails and Single Spike

Mueller – J.S. Popper brand. Jaw opens 1.0" (25.4mm) Uses single spike and bed of nails to pierce insulation

Material: nickel-silver jaws; includes brass screw, brass nut, brass washer, and bronze star washer

Length: 2.61" (66.4mm)

Connection -N Without Hardware, -L With Loose Hardware,
Options: -J Banana Jack, -TJ Threaded Banana Jack



Model # JP-5869-B

Contact Clip with Bed of Nails

Mueller – J.S. Popper brand
Jaw opens 0.52" (13.2mm)
Uses bed of nails to pierce insulation

Material: Steel

Length: 2.4" (61.0mm)



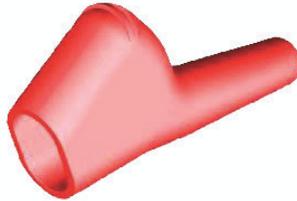


Model # JP-8681-*

Insulator for Telecom Clips

Mueller – J.S. Popper brand
 Protective flexible vinyl insulator
 for 25182, 8099, 8078,
 8783, 33699, 33674

- Material:** PVC
Length: 2.4" (61.0mm)
***Std.** -0 Black,
 -2 Red,
 -4 Yellow,
 -5 Green,
 -6 Blue,
 -9 White



Model # JP-8681-C*

Cut Insulator for Telecom Clips

Mueller – J.S. Popper brand
 Protective flexible vinyl insulator for
 telecom clips with banana jack
 or threaded banana jack
 connections

- Material:** PVC
Length: 1.8" (45.7mm)
***Std.** -0 Black,
 -2 Red,
 -4 Yellow,
 -5 Green,
 -6 Blue,
 -9 White

