NEW PRODUCTS

MICRO-SCALE TEST KIT

Micro-scale Test Kit accessories are designed to attach to industry standard multimeter test probes or prods. These accessories allow convenient and safe testing on breadboards or printed circuit boards.

KT-MS002 includes:
• (2) 48” test leads with right angle shrouded banana plug to test prod
• (2) Alligator Clip Micro-scale test lead attachments (one red, one black)
• (2) Micro-plunger Clip Micro-scale test lead attachments (one red, one black)
• (2) Breadboard Pin Micro-scale test lead attachments (one red, one black)
• (2) Needle Pin Micro-scale test lead attachments (one red, one black)
• (2) Pin Socket Micro-scale test lead attachments (one red, one black)
• (2) Magnetic Probe Micro-scale test lead attachments (one red, one black)
• (1) Battery Current Probe Micro-scale test lead attachment
• (2) Nano-plunger Clip Micro-scale test lead attachments (one red, one black)
• (1) Carrying pouch

KT-MS001 INCLUDES:
• All of the above accessories without the 48” test leads

ALLIGATOR CLIP ATTACHMENT
• Used to grip larger terminals, rails and wires
• Mueller BU-30 Clip
• Insulator included to reduce the risk of shorting to other components
• Rated for 5 amps of current

BATTERY CURRENT PROBE ATTACHMENT
• Used to measure the current in a dry cell battery compartment
• Easily inserts between the battery and the spring contact

NEEDLE PIN ATTACHMENT
• Used to pierce the conformal coating on circuit boards
• Has low profile holder to reach tight locations

PIN SOCKET ATTACHMENT
• Used to connect to .080” male pins
• A great way to test D-Sub connectors
• High quality gold plated contact

MICRO-PLUNGER CLIP ATTACHMENT
• Used to grip the leads on through-hole components
• Small enough to test individual IC leads
• Durable nylon construction

CARRYING POUCH
• Used to store and carry all of the Micro-scale Accessories
• Fits comfortably in a shirt or pants pocket

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*Products covered by patents pending.
Mueller clips are the industry standard. Our designs reflect 95 years of innovation and improvement. Mueller clips assure teeth that bite, springs that hold, plating that lasts and insulators that protect.

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**Miniature Alligator**

**Model # BU-30/BU-30C**
Solder or crimp connection
Jaw opens 0.188" (4.8 mm) max

**Material:** nickel-plated steel (BU-30) or solid copper (BU-30C)

**Length:** 1.1" (27.78mm)

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

**Rating:** 5 Amps

**Insulator for Miniature Alligator**

**Model # BU-32-***
Protective flexible vinyl insulator for 30, 30C

**Material:** PVC

**Length:** 1.63" (41.28mm)

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

---

**Miniature Alligator with Barrel**

**Model # BU-30BL**
Solder or crimp connection
Jaw opens 0.188" (4.8 mm) max

**Material:** nickel-plated steel

**Length:** 1.25" (31.75mm)

**Rating:** 5 Amps

**Miniature Alligator with Threaded Barrel**

**Model # BU-30TBO**
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
Insulator for Mini Alligator Barrel/Threaded Barrel

**Model # BU-31-***

Protective flexible vinyl insulator for 30BL, 30TBO

**Material:** PVC

**Length:** 1.63” (41.28mm)

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

---

Micro-Alligator

**Model # BU-34/BU-34C**

Solder or crimp connection

Jaw opens 0.22” (5.6 mm) max

**Material:** nickel-plated steel (BU-34) or solid copper (BU-34C)

**Length:** 1.09” (27.78mm)

**Rating:** 5 Amps

---

Insulator for Micro Alligator

**Model # BU-36-***

Protective flexible vinyl insulator for 34, 34C

**Material:** PVC

**Length:** 1.22” (30.95mm)

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

---

Alligator Clip with Barrel

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

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), solid stainless steel (BU-60X)

**Length:** 1.97” (50mm)

**Rating:** 10 Amps

---

Alligator Clip

**Model # BU-60U**

Solder or crimp connection

Jaw opens 0.31” (7.9 mm) max

**Material:** nickel-plated steel

**Length:** 1.97” (50mm)

**Rating:** 10 Amps

---

Alligator Clip with Screw

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

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

---

Phone Tip Alligator Clip

**Model # BU-60PR2**

Accepts standard phone tip or test prod tip

Jaw opens 0.31” (7.9 mm) max

**Material:** nickel-plated steel

**Length:** 1.97” (50mm)

**Rating:** 10 Amps

---

Threaded Barrel Alligator Clip

**Model # BU-60TBO**

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

---

Phone Tip Alligator Clip

**Model # BU-60PR2**

Accepts standard phone tip or test prod tip

Jaw opens 0.31” (7.9 mm) max

**Material:** nickel-plated steel

**Length:** 1.97” (50mm)

**Rating:** 10 Amps

---

Threaded Barrel Alligator Clip

**Model # BU-60TBO**

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

---

Alligator Clip

**Model # BU-60U**

Solder or crimp connection

Jaw opens 0.31” (7.9 mm) max

**Material:** nickel-plated steel

**Length:** 1.97” (50mm)

**Rating:** 10 Amps

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www.muellerelectric.com
Alligator Clip with Cage Spring Barrel

Model # BU-61

Cage spring connection accepts standard prod 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

Insulator for Alligator Clips

Model # BU-62-*

Protective flexible vinyl insulator for 60, 60C, 60CS, 60PR2, 60S, 60TBO, 60U, 60X and 61
Material: PVC
Length: 2.03" (51.59mm)

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

Alligator Clip with Acetate Handle

Model # BU-60H-*

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

Material: nickel-plated steel clip; tenite acetate insulated handle
Length: 2.23" (56.75mm)

*Std. Colors: -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White
Rating: 10 Amps

Alligator Clip with Acetate Handle and Screw

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

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

Material: nickel-plated steel (BU-60HS-*) or solid copper (BU-60CHS-*) clip; tenite acetate insulated handle
Length: 2.34" (59.53mm)

*Std. Colors: -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White
Federal Spec: AA59466-003 (red), AA59466-016 (black), (BU-60CHS-*)
Rating: 10 Amps

Phone Tip Alligator Clip with Acetate Handle

Model # BU-60HPR-*

Accepts standard phone tip or test prod tip

Material: nickel-plated steel clip; tenite acetate insulated handle
Length: 2.23" (56.75mm)

*Std. Colors: -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White
Rating: 10 Amps

Insulated Alligator Clip

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

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-*); PVC insulator
Length: 2.25" (57.15mm)

*Std. Colors: -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White
Rating: 10 Amps
### Alligator Clip
**Model # BU-70/BU-70C**
- **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)

### Alligator Clip with Screw
**Model # BU-70S/BU-70CS**
- **6-40 screw or crimp connection**
- **Jaw opens 0.313’ (7.9 mm) max**
- **Material**: nickel-plated steel (BU-70S) or solid copper (BU-70CS)
- **Length**: 1.69’ (42.86mm)
- **Federal Spec**: AA59466-0017 (BU-70CS-*)
- **Rating**: 5 Amps (BU-70S) or 10 Amps (BU-70CS)

### Insulator for Alligator Clip
**Model # BU-72-**
- **Protective flexible vinyl insulator for 70, 70C, 70CS, 70S**
- **Material**: PVC
- **Length**: 1.81’ (46.04mm)
- **Std. Colors**: -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White

### Crocodile Clip
**Model # BU-85/BU-85C**
- **Crimp or screw connection**
- **Jaw opens 0.313’ (7.9 mm) max**
- **Nesting teeth provide solid contact along entire length of jaw**
- **Material**: zinc-plated steel (BU-85) or solid copper (BU-85C)
- **Length**: 2.125’ (53.97mm)
- **Federal Spec**: AA59466-005 (BU-85C)
- **Rating**: 5 Amps (BU-85) or 10 Amps (BU-85C)

### Insulator for Crocodile Clip
**Model # BU-87-**
- **Protective flexible vinyl insulator for 85, 85C**
- **Material**: PVC
- **Length**: 1.7’ (43.26mm)
- **Std. Colors**: -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White

### Small Safety Alligator Clip
**Model # BU-651-**
- **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**: 2.24’ (57mm)
- **Std. Colors**: -0 Black, -2 Red
- **Rating**: 1000 V category II, 600V category III, 20 Amps, IEC 1010 Compliant

### Small Safety Alligator Clip with Extended Banana Jack
**Model # BU-652-**
- **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**: 1000 V category II, 600V category III, 20 Amps, IEC 1010 Compliant

### Large Safety Alligator Clip
**Model # BU-65-**
- **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. Colors**: -0 Black, -2 Red, -4 Yellow, -6 Blue
- **Rating**: 1000 V, 30 Amps, IEC 1010 Compliant
Large Flanged Safety Alligator Clip

Model # BU-654-*

Compatible with all shrouded, unshrouded, or retractable 0.16" (4mm) banana plugs
Jaw opens 1.00" (26 mm) max

Material: nickel-plated steel clip, glass-filled nylon housing
Length: 3.19" (81mm)

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

Rating: 1000 V category II, 600V category III, 20 Amps, IEC 1010 Compliant

Pee-Wee Clip

Model # BU-45/BU-45C

Screw or crimp connection
Jaw opens 0.31" (7.9 mm) max

Material: zinc-plated steel (BU-45) or solid copper (BU-45C)
Length: 1.53" (38.89mm)

Federal Spec: CID AA59466-006 (BU-45C)
Rating: 5 Amps (BU-45) or 10 Amps (BU-45C)

Insulator for Pee-Wee Clip

Model # BU-47-*

Protective flexible vinyl insulator for 45, 45C
Material: PVC
Length: 2.02" (51.2 mm)

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

Economy Clip

Model # BU-55

Screw or crimp connection
Jaw opens 0.44" (11.1 mm) max
Material: zinc-plated steel
Length: 2" (50.8mm)
Rating: 10 Amps

Insulator

Model # BU-74-*

Protective flexible vinyl insulator for 55
Accepts 0.27" (7 mm) ignition wire
Material: PVC
Length: 2.875" (73mm)

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

Automotive Analyzer Clip

Model # BU-48B/BU-48C

Screw or crimp connection
Jaw opens 0.5" (12.7 mm) max
Teeth mesh on three sides of the jaw
Material: zinc-plated steel (BU-48B) or solid copper (BU-48C)
Length: 2" (50.8mm)

Federal Spec: CID AA59466-007 (BU-48C)
Rating: 10 Amps (BU-48B) or 20 Amps (BU-48C)

Automotive Analyzer Clip

Model # BU-48B2E

Screw or double crimp connection
Jaw opens 0.5" (12.7 mm) max
Material: zinc-plated steel
Length: 2" (50.8mm)
Rating: 10 Amps

Meter Testing Clip With Needle

Model # BU-50C

Solid copper clip with beryllium copper piercing needle in the top jaw
Jaw opens 0.5" (12.7 mm) max
Material: Solid copper
Length: 2.28" (57.12mm)

Federal Spec: CID AA59466-013
Rating: 20 Amps
Meter Testing Clip
Model # BU-51C
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

Insulator for Automotive Analyzer Clip
Model # BU-49-*
Protective flexible vinyl insulator for 48B, 48B2E, 48C, 50C, 51C, 55, 95
Material: PVC
Length: 2.56” (65.09mm)
*Std. Colors: -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White

General Purpose Clip
Model # BU-27/BU-27C
Crimp or screw connection; jaw opens 0.625” (16 mm) max
Material: zinc-plated steel (BU-27) or solid copper (BU-27C); Spring: steel
Length: 2.44” (61.9mm)
Federal Spec: CID AA59466-008 (BU-27C)
Rating: 20 Amps (BU-27) or 40 Amps (BU-27C)

Geophone Clip
Model # BU-27CG/BU-27CGW
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

General Purpose/Geophone Clips
Model # BU-29-*
Protective flexible vinyl insulator for 27, 27C, 27CG and 27CGW
Material: PVC
Length: 3.5” (88.9mm)
*Std. Colors: -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White

Insulator for General Purpose/Geophone Clips
Model # BU-90-*
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. Colors: -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White

Heavy Duty Clip
Model # BU-24APN/BU-24APS
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

Automotive Clip
Model # BU-25/BU-25C
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” (72.6mm)
Federal Spec: CID AA59466-009 (BU-25C)
Rating: 40 Amps (BU-25) or 75 Amps (BU-25C)
**Insulator for Automotive Clip**

**Model # BU-26-***

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

**Material:** PVC  
**Length:** 3.88” (98.4 mm)

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

---

**Heavy Duty Clip for Battery and Test Work**

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

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)

---

**Insulator for Heavy Duty Battery Test Clip**

**Model # BU-23-***

Protective flexible vinyl insulator for 21A, 21C

**Material:** PVC  
**Length:** 5’ (127mm)

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

---

**Heavy Duty Clip for Grounding Applications**

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

Copper version has 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)

---

**Insulator for Heavy Duty Clip**

**Model # BU-13-***

Protective flexible vinyl insulator for 11A, 11C

**Material:** PVC  
**Length:** 6.8” (173mm)

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

---

**Welding Clip**

**Model # BU-33C**

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

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**Insulator for Welding Clip**

**Model # BU-35-***

Protective flexible vinyl insulator for 33C

**Material:** PVC  
**Length:** 8.75” (222mm)

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

**Model # BU-58**

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

**Material**: zinc-plated steel

**Length**: 2.31” (58.75mm)

**Rating**: 50 Amps

---

**Micro Plier-Type Clip**

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

Solder or crimp connection

Jaw opens 0.75” (19 mm) max

**Material**: nickel-plated steel (BU-40A) or solid copper (BU-40C), PVC insulator (BU-42PR-**)

**Length**: 2.3” (58mm)

**Std. Colors**: Insulator (BU-42PR-**) -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White

**Rating**: 15 Amps (BU-40A), 20 Amps (BU-40C)

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**Insulator for Micro Plier-Type Clip**

**Model # BU-42PR-***

Protective flexible vinyl insulator for BU-40

**Material**: PVC

**Length**: 1” (25.4mm)

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

---

**Miniature Plier-Type Clip**

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

Solder or crimp connection

Jaw opens 1.125” (28.6 mm) max

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

**Length**: 2.88” (74.07mm)

**Std. Colors**: Insulator (BU-46PR-**) -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White

**Rating**: 50 Amps (46A) or 75 Amps (46C)

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

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**Insulator for Plier-Type Clip**

**Model # BU-43PR-***

Protective flexible vinyl insulator for BU-41

**Material**: PVC

**Length**: 4.4” (112.73mm)

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

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

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**Insulated Battery Clip**

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

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

**Rating**: 300 Amps
**Insulated Welding Clip**

*Model # BU-102W-*

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

**Rating:** 400 Amps

---

**Epoxy Coated Battery Clip**

*Model # BU-X15400-*

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

---

**Kelvin Clip**

*Model # BU-75K*

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

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**Small Angled Nose Telecom Clip with Bed of Nails**

*Model # JP-25182-***

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

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**Large Angled Nose Telecom Clip with Single Spike**

*Model # JP-8099-***

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

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**Large Angled Nose Telecom Clip with Hex Screw Attached Single Spike**

*Model # JP-8078-***

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 Options:** -N Without Hardware, -L With Loose Hardware, -J Banana Jack, -TJ Threaded Banana Jack
## Large Angled Nose Telecom Clip with Bed of Nails and Single Spike

**Model # JP-8783-***

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

## Large Straight Nose Telecom Clip with Single Spike

**Model # JP-33699-***

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

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

**Model # JP-33674-***

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

## Contact Clip with Bed of Nails

**Model # JP-5869-B**

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)

## Contact Clip with Circle of Nails

**Model # JP-5869-C**

Mueller – J.S. Popper brand  
Jaw opens 0.52” (13.2mm)  
Uses circle of points to pierce insulation  
**Material**: steel  
**Length**: 2.4” (61.0mm)

## Insulator for Telecom Clips

**Model # JP-8681-***

Mueller – J.S. Popper brand  
Protective flexible vinyl insulator for 25182, 8099, 8078, 8783, 33699, 33674  
**Material**: PVC  
**Length**: 2.4” (61.0mm)  
**Std. Colors**: -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White

## Cut Insulator for Telecom Clips

**Model # JP-8681-C**

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. Colors**: -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White
Mueller’s jacks, binding posts and banana plugs ensure a reliable connection. All plug bodies are nickel-plated brass. Shielded jacks provide additional user safety where it is required.

Banana Plug With 8-32 Thread

Model # BU-00226-*
Nine leaf cage spring 4mm banana plug

Material: Banana Plug: nickel-plated brass body; Spring: nickel-plated phosphor bronze; Insulator: ABS
Length: 1.66” (42.13mm)
*Std. Colors: -0 Black, -2 Red
Rating: 1000 Volts, 15 Amps (hands free)

Threaded Banana Plug

Model # BU-00241
Material: Banana Plug: nickel-plated brass body; Spring: nickel-plated phosphor bronze
Length: 1.21” (31mm)
Rating: 15 Amp

Solderless Banana Plug

Model # BU-00243-*
Material: Banana Plug: nickel-plated brass body; Spring: nickel-plated phosphor bronze; Insulator: ABS
Length: 1.1” (28mm)
*Std. Colors: -0 Black, -2 Red
Rating: 15 Amp

Solderless Banana Plug-Hex Design

Model # BU-00244-*
Material: Banana Plug: nickel-plated brass body; Spring: nickel-plated phosphor bronze; Insulator: ABS
Length: 1.15” (29mm)
*Std. Colors: -0 Black, -2 Red
Rating: 15 Amps

Set Screw Banana Plug

Model # BU-00245-*
Material: Banana Plug: nickel-plated brass body; Spring: nickel-plated phosphor bronze; Insulator: ABS
Length: 1.08” (27mm)
*Std. Colors: -0 Black, -2 Red
Rating: 15 Amps
### Tapered Handle Banana Plug

**Model # BU-00246-***

**Material:** Banana Plug: nickel-plated brass body; 
*Spring:* nickel-plated phosphor bronze; 
*Insulator:* ABS

**Length:** 1.02” (26mm)

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

**Rating:** 15 Amps

---

### Stackable Banana Plug

**Model # BU-00249-***

**Material:** Banana Plug: nickel-plated brass body; 
*Spring:* nickel-plated phosphor bronze; 
*Insulator:* ABS

**Length:** 1.68” (43mm)

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

**Rating:** 15 Amps

---

### Unshrouded Stackable Banana Plug

**Model # BU-16-***

**Material:** Banana Plug: nickel-plated brass body; 
*Spring:* nickel-plated beryllium copper; 
*Insulator:* Nylon

**Length:** 1.88” (47.7mm)

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

**Rating:** 1000 Volts, 15 Amps (Hands free)

---

### Insulated Stackable Banana Plug

**Model # BU-31101-***

**Material:** Banana Plug: nickel-plated brass body; 
*Spring:* nickel-plated beryllium copper; 
*Insulator:* nylon

**Length:** 2.45” (62.23mm)

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

**Rating:** 20 Amps

---

### Cable Mountable 4mm Shrouded Banana Plug

**Model # BU-32603-***

**Material:** Banana Plug: nickel-plated brass; 
*Insulator:* nylon

**Length:** 1.91” (48.5mm)

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

**Rating:** 1000V, category III, 1500V, category II, 20 Amps, IEC 1010 Compliant

---

### Insulated Banana Jack To Standard Banana Plug

**Model # BU-32101-***

**Material:** Banana Plug: nickel-plated brass body; 
*Spring:* nickel-plated beryllium copper; 
*Insulator:* nylon

**Length:** 2.61” (66.3mm)

*Std. Colors:* -0 Black, -2 Red, -4 Yellow, -6 Blue

**Rating:** 1000 V, 15 Amps (hands free), IEC 1010 Compliant

---

### Insulated Banana Coupler

**Model # BU-32601-***

**Material:** Banana Plug: nickel-plated brass; 
*Insulator:* nylon

**Length:** 2.50” (63.5mm)

*Std. Colors:* -0 Black, -2 Red, -4 Yellow, -6 Blue

**Rating:** 1000V, 15 Amps, IEC 1010 Compliant

---

### Dual Banana Plug

**Model # BU-00247-***

**Material:** Banana Plug: nickel-plated brass body; 
*Spring:* nickel-plated phosphor bronze; 
*Insulator:* PVC

**Length:** 1.62” (41mm)

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

**Rating:** 15 Amps
### Insulated Banana Jack
#### Model # BU-00233-*
- **Material:** Banana Jack: nickel-plated brass body; Insulator: nylon
- **Length:** 0.66” (17mm)
- **Rating:** 15 Amp
- **Std. Colors:** -0 Black, -2 Red

### Insulated Phone Tip Jack
#### Model # BU-00234-*
- **Material:** Banana Jack: nickel-plated brass body; Spring: nickel-plated phosphor bronze; Insulator: ABS
- **Length:** 1” (25mm)
- **Rating:** 15 Amp
- **Std. Colors:** -0 Black, -2 Red

### Pressfit Insulated Banana Jack with Solder Pin Connection
#### Model # BU-31602-*
- **Material:** Banana Plug: nickel-plated brass; Insulator: Dupont 101L
- **Length:** 1.25” (31.75mm)
- **Rating:** 1000 V, 15 Amps, IEC 1010 Compliant
- **Std. Colors:** -0 Black, -2 Red, -4 Yellow, -6 Blue

### Pressfit Insulated Banana Jack with Spade Connection
#### Model # BU-31603-*
- **Material:** Banana Plug: nickel-plated brass; Insulator: Dupont 101L
- **Length:** 1.37” (34.8mm)
- **Rating:** 1000 V, 15 Amps, IEC 1010 Compliant
- **Std. Colors:** -0 Black, -2 Red, -4 Yellow, -6 Blue

### Slim-Line Five Way Binding Post-Threaded
#### Model # BU-00281-*
- **Material:** Post: nickel-plated brass; Insulator: nylon
- **Length:** 2” (51mm)
- **Rating:** 15 Amps
- **Std. Colors:** -0 Black, -2 Red

### Five-Way Binding Post
#### Model # BU-00282-*
- **Material:** Post: nickel-plated brass; Insulator: nylon
- **Length:** 2.10” (53mm)
- **Rating:** 15 Amps
- **Std. Colors:** -0 Black, -2 Red

### Dual Five-Way Binding Post
#### Model # BU-00283
- **Material:** Post: nickel-plated brass; Insulator: nylon
- **Length:** 1.80” (46mm)
- **Rating:** 15 Amps

### Screw-in Safety Socket with Stud and Metal Nut
#### Model # BU-31607-*
- **Material:** Hardware: nickel-plated brass; Insulator: ABS-nylon composite
- **Length:** 1.53” (39mm)
- **Rating:** 600V, category III, 1000V, category II, 35 Amps, IEC 1010 Compliant
- **Std. Colors:** -0 Black, -2 Red

### Screw-in Safety Socket with Spade and Metal Nut
#### Model # BU-31609-*
- **Material:** Hardware: nickel-plated brass; Insulator: ABS-nylon composite
- **Length:** 1.26” (32mm)
- **Rating:** 600V, category III, 1000V, category II, 35 Amps, IEC 1010 Compliant
- **Std. Colors:** -0 Black, -2 Red
Mueller grabber clips and test probes are available in a wide variety of sizes to ensure that even the most hard to reach test point is easily accessible. We provide a fast and easy connection to terminals and component test leads.

<table>
<thead>
<tr>
<th>Model # BU-00201-<em>/BU-00202-</em>/BU-00203-*</th>
<th>Plunger Clip</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Material:</strong></td>
<td>Cap &amp; Body: glass filled nylon; Spring: stainless steel; Contact: beryllium copper; insulated to a single contact point</td>
</tr>
<tr>
<td><strong>Length:</strong></td>
<td>1.75” (44mm) (BU-00201-<em>); 2.50” (63mm) (BU-00202-</em>); 3.50” (88mm) (BU-00203-*)</td>
</tr>
<tr>
<td><strong>Std Colors:</strong></td>
<td>-0 black, -2 red</td>
</tr>
<tr>
<td><strong>Rating:</strong></td>
<td>1000 Volts, 10 Amps</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model # BU-00208-*</th>
<th>Mini-Micro Plunger Clip</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Material:</strong></td>
<td>Cap &amp; Body: tough, durable nylon; Spring: stainless steel compression coil; Contact: gold-plated beryllium copper</td>
</tr>
<tr>
<td><strong>Length:</strong></td>
<td>1.75” (44mm)</td>
</tr>
<tr>
<td><strong>Std Colors:</strong></td>
<td>-0 Black, -2 Red</td>
</tr>
<tr>
<td><strong>Rating:</strong></td>
<td>600 Volts, 3 Amps</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model # BU-00207-*</th>
<th>Safety Plunger Clip Adapter</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Material:</strong></td>
<td>Cap &amp; Body: nylon; Spring: stainless steel; Contact: beryllium copper</td>
</tr>
<tr>
<td><strong>Length:</strong></td>
<td>2.23” (56.64mm)</td>
</tr>
<tr>
<td><strong>Std Colors:</strong></td>
<td>-0 Black, -2 red</td>
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<tr>
<td><strong>Rating:</strong></td>
<td>1000 Volts, 10 Amps</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model # BU-20431-*</th>
<th>Right Angle Insulated Plunger Hook Clip</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Material:</strong></td>
<td>Housing: nylon. Contact: nickel-plated beryllium copper</td>
</tr>
<tr>
<td><strong>Length:</strong></td>
<td>4.60” (116.84mm); the hook extends 0.41” (10mm) when fully depressed</td>
</tr>
<tr>
<td><strong>Std Colors:</strong></td>
<td>-0 Black, -2 Red, -4 Yellow, -6 Blue</td>
</tr>
<tr>
<td><strong>Rating:</strong></td>
<td>1000V, 15 Amps, IEC 1010 Compliant</td>
</tr>
</tbody>
</table>

**Color Key**

<table>
<thead>
<tr>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Black</td>
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<tr>
<td>2</td>
<td>Red</td>
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<tr>
<td>4</td>
<td>Yellow</td>
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<tr>
<td>5</td>
<td>Green</td>
</tr>
<tr>
<td>6</td>
<td>Blue</td>
</tr>
<tr>
<td>9</td>
<td>White</td>
</tr>
</tbody>
</table>

---

For more information, visit www.muellerelectric.com.
Right Angle Insulated Plunger Clamp Clip
Model # BU-20432-*/BU-20433-*
Compatible with all shrouded, unshrouded, or retractable 0.16” (4mm) banana plugs

Material: Housing: nylon; Contact: nickel-plated beryllium copper
Length: 5.50” (139.7mm) (BU-20432-*); 7.50” (190.5mm) (BU-20433-*),
*Std Colors: -0 Black, -2 Red, -4 Yellow, -6 Blue
Rating: 1000V, 1 Amps, IEC 1010 Compliant

Right Angle Insulated Plunger Jaw Clip
Model # BU-20434-*
Compatible with all shrouded, unshrouded, or retractable 0.16” (4mm) banana plugs

Material: Housing: nylon; Contact: nickel-plated steel
Length: 5.26” (133.6mm); the steel jaws extend 0.48” (12mm) and open to 1” (25mm),
*Std Colors: -0 Black, -2 Red, -4 Yellow, -6 Blue
Rating: 1000V, 15 Amps, IEC 1010 Compliant

Insulated Plug-On Test Prod With Stainless Steel Tip
Model # BU-26101-*
Compatible with all shrouded, unshrouded, or retractable 0.16” (4mm) banana plugs

Material: Housing: nylon; Contact: nickel-plated brass
Length: 3’ (76.2mm),
*Std Colors: -0 Black, -2 Red, -4 Yellow, -6 Blue
Rating: 1000V, 20 Amps, IEC 1010 Compliant

Insulated Plug-On Test Prod With 8-32 Thread
Model # BU-26106-*
Compatible with all shrouded, unshrouded, or retractable 0.16” (4mm) banana plugs

Material: Housing: nylon; Contact: nickel-plated brass
Length: 3.3’ (83mm),
*Std Colors: -0 Black, -2 Red, -4 Yellow, -6 Blue
Rating: 1000V, 20 Amps, IEC 1010 Compliant

Ultra Tech Test Prod
Model # BU-26130-*
Compatible with all shrouded, unshrouded, or retractable 0.16” (4mm) banana plugs

Material: Housing: nylon; Contact: nickel-plated brass
Length: 6.27” (159.3mm),
*Std Colors: -0 Black, -2 Red, -4 Yellow, -6 Blue
Rating: 1000V, IEC 1010 Compliant

Safety Spade Terminal
Model # BU-30214-*
Compatible with all shrouded, unshrouded, or retractable 0.16” (4mm) banana plugs

Material: Housing: ABS-nylon; Contact: nickel-plated brass
Length: 2.55’ (64.8mm),
*Std Colors: -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue
Rating: 1000V, category III, 1500V, category II, 30 Amps, IEC 1010 Compliant
Mueller manufactures a full line of test and interconnection leads for almost any application. For nearly a century, technicians and engineers have looked to Mueller as “perfection...for the best connection.”

**Wire Table**

<table>
<thead>
<tr>
<th>Designation</th>
<th>AWG</th>
<th>Description</th>
<th>O.D.</th>
<th>Insulation</th>
<th>Temp</th>
<th>Rating</th>
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</thead>
<tbody>
<tr>
<td>M</td>
<td>18</td>
<td>413/44 copper</td>
<td>.140&quot;</td>
<td>Silicone</td>
<td>150°C/-80°C</td>
<td>3000V, 22A</td>
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<tr>
<td>N</td>
<td>18</td>
<td>65/36 tinned copper</td>
<td>.140&quot;</td>
<td>PVC</td>
<td>80°C/-50°C</td>
<td>5000V, 6.5A</td>
</tr>
<tr>
<td>A</td>
<td>20</td>
<td>41/36 tinned copper</td>
<td>.088&quot;</td>
<td>PVC</td>
<td>105°C/-25°C</td>
<td>300V, 6.5A</td>
</tr>
<tr>
<td>E</td>
<td>22</td>
<td>19/34 tinned copper</td>
<td>.062&quot;</td>
<td>PVC</td>
<td>105°C/-55°C</td>
<td>1000V, 600V, 3000V, 3.5A</td>
</tr>
<tr>
<td>D</td>
<td>18</td>
<td>65/36 tinned copper</td>
<td>.140&quot;</td>
<td>PVC</td>
<td>90°C</td>
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**Order Key**

- **Test Lead Length**
- **Typical Mueller Part #**
- **Type of wire**
- **Color**
- **Length in inches**

**Coaxial Cables**

<table>
<thead>
<tr>
<th>Rating</th>
<th>B</th>
<th>RG-58C/U</th>
<th>C</th>
<th>RG-58C/U</th>
</tr>
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<td></td>
<td>B</td>
<td>RG-58C/U</td>
<td>C</td>
<td>RG-58C/U</td>
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<td></td>
<td>connected to 20AWG with Y-block</td>
<td>connected to 20AWG with Y-block</td>
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<tr>
<td></td>
<td>F</td>
<td>RG-174C/U</td>
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<tr>
<td></td>
<td>L</td>
<td>Twisted Pair Cable</td>
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</tbody>
</table>

**Micro-Plunger Clip on Both Ends**

**Model # BU-1010-A-**-**

**Material**: Hook-up Wire: #20 (41/36) AWG tinned copper with 105°C PVC insulation; Plunger: nylon housing, stainless steel spring, beryllium copper contact

**Length**: -12" (.3m), 24" (.6m), 36" (.9m), 48" (1.2m), 60" (1.5m)

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

**Rating**: Hands free testing at 300V Category II, 5 Amps

**Mini-Plunger Clip on Both Ends**

**Model # BU-1111-A-**-**

**Material**: Hook-up Wire: #20 (41/36) AWG tinned copper with 105°C PVC insulation; Plunger: nylon housing, stainless steel spring, beryllium copper contact

**Length**: -12" (.3m), 24" (.6m), 36" (.9m), 48" (1.2m), 60" (1.5m)

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

**Rating**: Hands free testing at 300V Category II, 5 Amps

**Mini-Plunger to Stackable Banana Plug**

**Model # BU-1120-A-**-**

**Material**: Banana Plug: ABS housing, brass body and beryllium copper, nickel-plated, nine-leaf cage spring; Hook-up Wire: #20 (41/36) AWG tinned copper with 105°C PVC insulation; Plunger: nylon housing, stainless steel spring and beryllium copper contact

**Length**: -12" (.3m), 24" (.6m), 36" (.9m), 48" (1.2m), 60" (1.5m)

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

**Rating**: Hands free testing at 300V, 5 Amps

**Mini-Plunger to BNC Male with RG58**

**Model # BU-1150-C-***-0**

**Material**: BNC Connector: MIL-C-30912, gold-plated center contact and silver-plated body; Coaxial Cable: shielded RG58C/U, MIL-C-17F, 50 ohm; Plunger: nylon housing, stainless steel spring and beryllium copper contact

**Length**: -12" (.3m), 24" (.6m), 36" (.9m), 48" (1.2m), 60" (1.5m)

**Rating**: Hands free testing at 300 VRMS

**Mini-Micro-Plunger to Stackable Banana Plug**

**Model # BU-1420-A-**-**

**Material**: Banana Plug: ABS housing, brass body and beryllium copper, nickel-plated, nine-leaf cage spring; Hook-up Wire: #20 (41/36) AWG tinned copper with 105°C PVC insulation; Plunger: nylon housing, stainless steel spring and gold-plated, beryllium copper contact

**Length**: -12" (.3m), 24" (.6m), 36" (.9m), 48" (1.2m), 60" (1.5m)

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

**Rating**: Hands free testing at 300V, 5 Amps
Stackable Single Banana Plugs on Both Ends

**Model # BU-2020-A-**-**

**Material:** Banana Plug: ABS housing, brass body and beryllium copper, nickel-plated, nine-leaf cage spring; Hook-up Wire: #20 (41/36) AWG tinned copper with 105˚C PVC insulation

**Length:** -12' (.3m), 24' (.6m), 36' (.9m), 48' (1.2m), 60' (1.5m)

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

**Rating:** Hands free testing at 300V, 10 Amps

Shrouded Right Angle Banana Plug

**Model # BU-2243-D-48-**

The stainless steel probe is Teflon® insulated except for the working end to prevent unwanted contact with other components that may be in the way

**Material:** Needle: stainless steel; Banana Plugs: nickel-plated brass; Housing: ABS; Hook-up wire: #18 AWG (65/36) tinned copper with 90˚C PVC insulation

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

**Rating:** 600V Category II, 20 Amps

Insulated Alligator Clip to Stackable Banana Plug

**Model # BU-2030-A-**-**

**Material:** Banana Plug: ABS housing, brass body and beryllium copper, nickel-plated, nine-leaf cage spring; Alligator Clip: nickel-plated steel with PVC insulator; Hook-up Wire: #20 (41/36) AWG tinned copper with 105˚C PVC insulation

**Length:** -12' (.3m), 24' (.6m), 36' (.9m), 48' (1.2m), 60' (1.5m)

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

**Rating:** Hands free testing at 300V, 10 Amps

Multiple Feature Test Prod to Unshrouded Banana Plug

**Model # BU-2641-D-48-**

**Material:** Needle: stainless steel; Banana Plugs: nickel-plated brass; Housing: ABS; Hook-up wire: #18 AWG (65/36) tinned copper with 90˚C PVC insulation

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

**Rating:** 600V, 10 Amps

Insulated Mini-Alligator Clip to Stackable Banana Plug

**Model # BU-2031-A-**-**

**Material:** Banana Plug: ABS housing, brass body and beryllium copper, nickel-plated, nine-leaf cage spring; Alligator Clip: nickel-plated steel with PVC insulator; Hook-up Wire: #20 (41/36) AWG tinned copper with 105˚C PVC insulation

**Length:** -12' (.3m), 24' (.6m), 36' (.9m), 48' (1.2m), 60' (1.5m)

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

**Rating:** Hands free testing at 300V, 10 Amp

Multiple Feature Test Prod to Unshrouded Right Angle Banana Plug

**Model # BU-2741-D-48-**

**Material:** Needle: stainless steel; Banana Plugs: nickel-plated brass; Housing: ABS; Hook-up wire: #18 AWG (65/36) tinned copper with 90˚C PVC insulation

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

**Rating:** 600V, 10 Amps

Multiple Feature Test Prod to Right Angle Shrouded Banana Plug

**Model # BU-2241-D-48-**

**Material:** Needle: stainless steel; Banana Plugs: nickel-plated brass; Housing: ABS; Hook-up wire: #18 AWG (65/36) tinned copper with 90˚C PVC insulation

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

**Rating:** 1000V Category II, 20 Amps

Unshrouded Banana Plugs on Both Ends – Ultra-Flex-Silicone

**Model # BU-2929-M-**-**

**Material:** Unshrouded Banana Plugs: Mueller No. Bu-16-**; Hook-up wire: #18 AWG (65/36) tinned copper with 90˚C PVC insulation

**Length:** -10' (.25m), 20' (.5m), 39' (1m)

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

**Rating:** Hands free testing at 3 kV, 20 Amps

Toll Free 800-955-2629
Shrouded Banana Plug to Safety Test Prod - Silicone

Model # BU-4061-M-39-*

Material: Banana Plugs: nickel-plated brass body, nickel-plated beryllium copper spring; Probe: stainless steel tip with 8-32 UNC thread; Hook-up Wire: #18 AWG, silicone insulator

*Std. Colors: -0 Black, -2 Red, -4 Yellow, -6 Blue

Rating: 1000V, 20 Amps, IEC 1010 compliant

Shrouded Right Angle Banana Plug to Safety Test Prod - Silicone

Model # BU-4062-M-39-*

Material: Banana Plugs: nickel-plated brass body, nickel-plated beryllium copper spring; Probe: stainless steel tip with 8-32 UNC thread; Hook-up Wire: #18 AWG, silicone insulator

*Std. Colors: -0 Black, -2 Red, -4 Yellow, -6 Blue

Rating: 1000V, 20 Amps, IEC 1010 compliant

Stackable 0.080" (2.0mm) Pin Plug on Both Ends

Model # BU-4444-A-**-*

Tip jack accepts 0.080" (2.0mm) diameter pin jack contact

Material: Pin Plug: 0.080" (2.0mm) diameter; 0.500" (12.7mm) long, nickel-plated brass pin tip, nickel-plated beryllium copper spring, ABS housing; Hook-up Wire: #22 (19/34) AWG tinned copper with 105˚C PVC insulation

**Length: -12" (.3m), 24" (.6m), 36" (.9m)

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

Rating: Hands free testing at 300 VRMS

Shrouded Banana Plug on Both Ends – Silicone

Model # BU-6161-M-39-*

Material: Banana Plugs: nickel-plated brass body, nickel-plated beryllium copper spring; Hook-up Wire: #18 AWG, silicone insulator

*Std. Colors: -0 Black, -2 Red, -4 Yellow, -6 Blue

Rating: 1000V, 20 Amps, IEC 1010 compliant

Right Angle Shrouded Banana Plug to Shrouded Banana Plug - Silicone

Model # BU-6162-M-39-*

Material: Banana Plugs: nickel-plated brass body, nickel-plated beryllium copper spring; Hook-up Wire: #18 AWG, silicone insulator

*Std. Colors: -0 Black, -2 Red, -4 Yellow, -6 Blue

Rating: 1000V, 20 Amp, IEC 1010 compliant

Stackable Dual Banana Plug to Mini-Micro-Plunger with RG58

Model # BU-7014-B-***-*

Material: Plunger: nylon housing, stainless steel spring and beryllium copper contact; Double Banana Plug: ABS housing, brass body and beryllium copper, nickel-plated, nine-leaf cage spring; Coaxial Cable: shielded RG58C/U, MIL-C-17F, 50 ohm

**Length: -12" (.36m), 24" (.6m), 36" (.9m)

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

Rating: hands free testing at 300 VRMS

Stackable Dual Banana Plug to Stackable Single Banana Plug with RG58

Model # BU-7020-B-***-*

Material: Single Banana Plug: ABS housing, brass body and beryllium copper, nickel-plated, nine-leaf cage spring; Double Banana Plug: ABS housing, brass body and beryllium copper, nickel-plated, nine-leaf cage spring; Coaxial Cable: shielded RG58C/U, MIL-C-17F, 50 ohm

**Length: -12" (.36m), 24" (.6m), 36" (.9m)

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

Rating: Hands free testing at 500 VRMS

www.muellerelectric.com
Stackable Dual Banana Plug to Mini-Alligator Clip with RG58

Model # BU-7031-B-**-*

Material: Alligator clip: nickel-plated steel with PVC insulator; Double Banana Plug: ABS housing, brass body and beryllium copper, nickel-plated, nine-leaf cage spring; Coaxial Cable: shielded RG58C/U, MIL-C-17F, 50 ohm

**Length: -12’ (.36m),
24’ (.6m), 36’ (.9m)

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

Rating: Hands free testing at 300 VRMS

Stackable Dual Banana Plug to Stackable Pin Plug with RG58

Model # BU-7044-B-**-*

Material: Pin Plug: 0.080” (2.0mm) diameter; 0.500” (12.7mm) long, nickel-plated brass pin tip, nickel-plated beryllium copper spring, ABS housing; Double Banana Plug: ABS housing, brass body and beryllium copper, nickel-plated, nine-leaf cage spring; Coaxial Cable: shielded RG58C/U, MIL-C-17F, 50 ohm

**Length: -12’ (.36m),
24’ (.6m), 36’ (.9m)

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

Rating: Hands free testing at 500 VRMS

Stackable Dual Banana Plug on Both Ends with RG58

Model # BU-7070-B-**-*

Material: Double Banana Plug: ABS housing, brass body and beryllium copper, nickel-plated, nine-leaf cage spring; Coaxial Cable: shielded RG58C/U, MIL-C-17F, 50 ohm

**Length: -12’ (.3m), 24’ (.6m),
36’ (.9m), 48’ (1.2m), 60’ (1.5m)

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

Rating: Hands free testing at 300 VRMS

Shrouded Dual Banana Plug on Both Ends with RG58

Model # BU-7171-B-***-0

Material: Double Banana Plug: ABS housing, brass body and beryllium copper, nickel-plated, nine-leaf cage spring; Coaxial Cable: shielded #22 AWG (7/30) twisted pair with drain connected to (-) side of one banana plug; side with drain connection is marked; shielded RG58C/U, MIL-C-17F, 50 ohm

**Length: -12’ (.3m), 24’ (.6m),
36’ (.9m), 48’ (1.2m), 60’ (1.5m)

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

Rating: Hands free testing at 500 VRMS

0.025” (.6mm) Square Pin Receptacle on Both Ends

Model # BU-8080-E-**-*

Material: Pin Receptacle: ABS housing, 0.025” (0.6mm) copper-nickel-tin alloy 725 with 0.000030” (0.00076mm) gold contact plating conductor; Hook-up Wire: #22 AWG (19/34) tinned copper with 105°C PVC insulation

**Length: -6’ (.15m), 12’ (.3m),
24’ (.6m), 36’ (.9m)

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

Rating: Hands free testing at 300V, 3 Amp

Insulated Alligator Clips on Both Ends

Model # BU-3030-A-***-*

Material: Alligator Clip: nickel-plated steel with PVC insulator; Hook-up Wire: #20 (41/36) AWG tinned copper with 105°C PVC insulation

**Length: -12’ (.3m), 24’ (.6m),
36’ (.9m), 48’ (1.2m), 60’ (1.5m)

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

Rating: Hands free testing at 300V, 10 Amps

Insulated Alligator Clips on Both Ends - Coiled Cord

Model # BU-3030-C-24- *

Material: Clip: nickel-plated steel alligator with insulator (BU-60 and BU-62-*); Coiled Cord: single conductor 18AWG wire with 4mm O.D.

Length: -24’ (.6m) retracted,
120’ (3.) extended

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

Rating: Hands free testing at 300V, 15 Amps
Insulated Alligator Clip to Stackable Dual Banana Plug with RG58

Model # BU-3070-C-**-0

Material: Alligator Clip: nickel-plated steel with PVC insulator; Double Banana Plug: ABS housing, brass body and beryllium copper, nickel-plated, nine-leaf cage spring; Coaxial Cable: Shielded RG58C/U, MIL-C-17F, 50 ohm

**Length: **-12" (.3m), 24" (.6m), 36" (.9m), 48" (1.2m), 60" (1.5m)

Rating: Hands free testing at 300 VRMS

Insulated Alligator Lead Set

Model # BU-00287

Material: Clip: nickel-plated steel with PVC insulators; Hook-up Wire: #22 (19/34) AWG copper with 105°C PVC insulation

Length: 12" (.3m)

Colors: Includes 2 each: Black, Red, Yellow, Green, White

Rating: Hands free testing at 300V, 7 Amp

Shrouded Banana Plug to Piercing Clip - Silicone

Model # JP-7505-83-**-*

Piercing clips are J.S. Popper brand

Material: Piercing Clip: JP-8783; Banana Plugs: nickel-plated brass body, nickel-plated beryllium copper spring; Hook-up Wire: #18 AWG, silicone insulator

**Length: **-12" (.3m), 24" (.6m), 36" (.9m), 48" (1.2m)

*Std. Colors: -0 Black, -2 Red, -4 Yellow, -6 Blue

Rating: 300V, 3 Amp

Ultra-Flex Test Lead Wires

Model # WI-M-18-

Material: Wire: #18 AWG, silicone

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

Rating: 3kV, 22 Amp

Insulated Alligator Clip on Both Ends

Model # BU-3131-A-**-*

Material: Alligator Clip: nickel-plated steel with PVC insulator; Hook-up Wire: #20 (41/36) AWG tinned copper with 105°C PVC insulation

**Length: **-12" (.3m), 24" (.6m), 36" (.9m), 48" (1.2m), 60" (1.5m)

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

Rating: Hands free testing at 300 VAC, 5 Amps

Insulated Mini-Alligator Lead Set

Model # BU-00285

Material: Clip: nickel-plated steel with PVC insulators; Hook-up Wire: #22 (19/34) AWG copper with 105°C PVC insulation

Length: 18" (.46m)

Colors: Includes 2 each: Black, Red, Yellow, Green, White

Rating: Hands free testing at 300V, 5 Amp

Insulated Alligator Lead Set

Model # BU-00286

Material: Clip: nickel-plated steel with PVC insulators; Hook-up Wire: #22 (19/34) AWG copper with 105°C PVC insulation

Length: 12" (.3m)

Colors: Includes 1 each: Black, Red, Yellow, Green, White

Rating: Hands free testing at 300V, 7 Amp
Mueller's coaxial cables and fully insulated BNC receptacles provide an additional margin of safety in connecting to instrumentation such as oscilloscopes, voltmeters, and network analyzers. Our BNC breakout test leads offer a wide variety of connector and clip combinations to meet your testing and connection needs.
Coaxial Cable Assemblies

**Insulated BNC Male to BNC Female**

Model# BU-5659-B-***-0

Material: **BNC Male/Female Connector:** fully insulated nylon housing; nickel-plated brass body, gold/nickel plated brass center contact; polyethylene dielectric; **Coaxial Cable:** RG58, 50 ohm

**Length:** 12’ (.3m), 24’ (.6m), 36’ (.9m), 48’ (1.2m), 60’ (1.5m)

Rating: Hands free testing at 500 VRMS on center conductor

**Insulated Alligator Clips to BNC Male With RG58**

Model# BU-5030-C-***-0

**Insulated Alligator Clips to BNC Male With RG174**

Model# BU-5330-F-***-0

Material: **Alligator Clip:** nickel-plated steel with PVC insulator; **BNC Male Connector:** MIL-C-39012, gold-plated center contact and silver-plated body (RG174/U BNC is a commercial connector with nickel-plated body); **Coaxial Cable:** shielded RG58C/U, MIL-C-17F, 50 ohm or shielded RG174/U, MIL-C-17D, 50 ohm

**Length:** 12’ (.3m), 24’ (.6m), 36’ (.9m), 48’ (1.2m), 60’ (1.5m)

Rating: Hands free testing at 300 VRMS on center conductor

**BNC Male Breakout to Tinned End Wires**

Model# BU-5100-A-4-0

Material: **BNC Male Connector:** quality tarnish-resistant, plated brass with a gold-plated brass center contact, ABS housing; **Hook-up Wire:** #20 AWG (41/36) tinned copper with 105°C PVC insulation

Rating: Hands free testing at 300 VRMS on center conductor

**BNC Male Breakout to Mini-Micro-Grabbers**

Model# BU-5114-A-4-0

Material: **BNC Male Connector:** quality tarnish-resistant, plated brass with a gold-plated brass center contact, ABS housing; **Mini-Micro-Grabbers (No.208):** conductor and abrasion resistant, nylon housing; **Hook-up Wire:** #20 AWG (41/36) tinned copper with 105°C PVC insulation

Rating: Hands free testing at 150 VRMS, 5 Amp

**BNC Male Breakout to Stackable Single Banana Plugs**

Model# BU-5120-A-4-0

Material: **BNC Male Connector:** quality tarnish-resistant, plated brass with a gold-plated brass center contact, ABS housing; **Banana Plug:** premium nine-leaf, nickel-plated beryllium copper springs and copper alloy 360 bodies for minimum stacked in multiples, ABS housing; **Hook-up Wire:** #20 AWG (41/36) tinned copper with 105°C PVC insulation

Rating: Hands free testing at 300 VRMS, 5 Amp

**BNC Male Breakout to Insulated Mini-Alligator Clips**

Model# BU-5131-A-4-0

Material: **BNC Male Connector:** quality tarnish-resistant, plated brass with a gold-plated brass center contact, ABS housing; **Clip:** Mueller No. 30BL with No. 31 insulators; **Hook-up Wire:** #20 AWG (41/36) tinned copper with 105°C PVC insulation

Rating: Hands free testing at 300 VRMS, 10 Amp

**BNC Male Breakout to Stackable 0.080” (2.0mm) Pin Plugs**

Model# BU-5144-A-4-0

Material: **BNC Male Connector:** quality tarnish-resistant, plated brass with a gold-plated brass center contact, ABS housing; **Pin Tip:** nickel-plated brass 0.080” (2.0mm) dia; 0.500’ (12.7mm) long; **Tip Jack:** Accepts 0.080” (2.0mm) dia. pin, nickel-plated, alloy 360 copper body; **Hook-up Wire:** #20 AWG (41/36) tinned copper with 105°C PVC insulation

Rating: Hands free testing at 300 VRMS, 5 Amps
BNC Female Breakout Style to Tinned End Wires
Model# BU-5200-A-4-0

Material: BNC Female Connector: quality tarnish-resistant, plated brass with a gold-plated brass center contact, ABS housing; Hook-up Wire: #20 AWG (41/36) tinned copper with 105˚C PVC insulation
Rating: Hands free testing at 300 VRMS, 5 Amp

BNC Female Breakout to Mini-Micro-Grabbers
Model# BU-5214-A-4-0

Material: BNC Female Connector: quality tarnish-resistant, plated brass with a gold-plated brass center contact, ABS housing; Mini-Micro-Grabbers (No.208): conductor and abrasion resistant, nylon housing; Hook-up Wire: #20 AWG (41/36) tinned copper with 105˚C PVC insulation
Rating: Hands free testing at 300 VRMS, 5 Amp

BNC Female Breakout to Stackable Single Banana Plugs
Model# BU-5220-A-4-0

Material: BNC Female Connector: quality tarnish-resistant, plated brass with a gold-plated brass center contact, ABS housing; Banana Plug: premium nine-leaf, nickel-plated beryllium copper springs and copper alloy 360 bodies for minimum stacked in multiples, ABS housing; Hook-up Wire: #20 AWG (41/36) tinned copper with 105˚C PVC insulation
Rating: Hands free testing at 300 VRMS, 10 Amps

BNC Female Breakout to Insulated Mini-Alligator Clips
Model# BU-5231-A-4-0

Material: BNC Female Connector: quality tarnish-resistant, plated brass with a gold-plated brass center contact, ABS housing; Clip: Mueller No. 30BL with No. 31 insulators; Hook-up Wire: #20 AWG (41/36) tinned copper with 105˚C PVC insulation
Rating: Hands free testing at 300 VRMS, 5 Amp

BNC Female Breakout to Stackable 0.080" (2.0mm) Pin Plugs
Model# BU-5244-A-4-0

Material: BNC Female Connector: quality tarnish-resistant, plated brass with a gold-plated brass center contact, ABS housing; Pin Tip: nickel-plated brass 0.080" (2.0mm) dia; 0.500" (12.7mm) long; Tip Jack: accepts 0.080" (2.0mm) dia. pin, nickel-plated, alloy 360 copper body; Hook-up Wire: #20 AWG (41/36) tinned copper with 105˚C PVC insulation
Rating: Hands free testing at 300 VRMS, 5 Amps

Mini-Micro-Plunger to BNC Male
Model# BU-1450-C-**-0

Material: BNC Male Connector: MIL-C-39012, gold-plated center contact and silver-plated body; Coaxial Cable: shielded RG58C/U, MIL-C-17F, 50 ohm; Plunger: nylon housing, stainless steel spring and beryllium copper contact
**Length: -12" (.3m), 24" (.6m), 36" (.9m), 48" (1.2m), 60" (1.5m)
Rating: Hands free testing at 300 VRMS on center conductor
Mueller DMM kits are designed for compatibility with Fluke, Agilent, Tektronix, and other DMM manufacturers. Reference page 28 for a Meter-Mate™ meter-to-accessory cross-reference table.

### 400002 (34000 Series Bench DMM Meter Mate Kit)

34000 Series Bench DMM's Meter Mate Kit has compatible replacement leads for all Agilent 34000 Series digital multimeters.

<table>
<thead>
<tr>
<th>QTY</th>
<th>P/N</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PM-50000</td>
<td>Blue tri-fold bag</td>
</tr>
<tr>
<td>1</td>
<td>Box 3</td>
<td>Retail Packaging Box</td>
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<td>PM-1000</td>
<td>Compatibility Label</td>
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<td>1</td>
<td>BU-6162-M-60-0</td>
<td>TL, banana-to-right angle banana, silicone, 60&quot;, 1kV, 20 Amp, black</td>
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<tr>
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<td>BU-6162-M-60-2</td>
<td>TL, banana-to-right angle banana, silicone, 60&quot;, 1kV, 20 Amp, red</td>
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<td>BU-26106-0</td>
<td>Test Probe, banana, 1kV, 20 Amp, black</td>
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<tr>
<td>1</td>
<td>BU-26106-2</td>
<td>Test Probe, banana, 1kV, 20 Amp, red</td>
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<td>BU-65-0</td>
<td>Clip, insulated, banana, 1kV, 30 Amp, black</td>
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<tr>
<td>1</td>
<td>BU-65-2</td>
<td>Clip, insulated, banana, 1kV, 30 Amp, red</td>
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<tr>
<td>1</td>
<td>BU-20431-0</td>
<td>Insulated plunger hook, mini grip, 1kV, 3 Amp, black</td>
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<td>1</td>
<td>BU-20431-2</td>
<td>Insulated plunger hook, mini grip, 1kV, 3 Amp, red</td>
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<td>BU-00207-0</td>
<td>Threaded plunger, 1kV, 15 Amps, black</td>
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<td>BU-00207-2</td>
<td>Threaded plunger, 1kV, 15 Amps, red</td>
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<td>Ultra Tech Test Prod, 1kV, 15 Amp, black</td>
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<td>Ultra Tech Test Prod, 1kV, 15 Amp, red</td>
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<td>1</td>
<td>BU-30212-0</td>
<td>Insulated spade lug, black</td>
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<td>BU-30212-2</td>
<td>Insulated spade lug, red</td>
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<tr>
<td>1</td>
<td>BU-32101-0</td>
<td>Banana Adapter, 1kV, 15 Amp, black</td>
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<tr>
<td>1</td>
<td>BU-32101-2</td>
<td>Banana Adapter, 1kV, 15 Amp, red</td>
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### Order Key

- **BU-0000-X-00-**
  - Typical Mueller Part #
  - Color
  - Length in inches
  - Type of Wire

<table>
<thead>
<tr>
<th>Color Key</th>
<th>Available Test Lead Lengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>0=Black</td>
<td>6&quot; 24&quot; 48&quot;</td>
</tr>
<tr>
<td>2=Red</td>
<td>6&quot; 12&quot; 24&quot; 36&quot; 60&quot;</td>
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<tr>
<td>5=Green</td>
<td></td>
</tr>
<tr>
<td>6=Blue</td>
<td></td>
</tr>
<tr>
<td>9=White</td>
<td></td>
</tr>
</tbody>
</table>

**Color Key**

- 0=Black
- 2=Red
- 5=Green
- 6=Blue
- 9=White

**Typical Mueller Part #**

- Length in inches
- Type of Wire

**Available Test Lead Lengths**

- 6" 24" 48"
- 12" 36" 60"
### 400003 (Fluke Replacement Electrical DMM Meter Mate Kit)

Electrical DMM Test Lead Kit offers a complete assortment of modular test leads and probes compatible with all Fluke DMMs.

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<th>Description</th>
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<td>TL, banana-to-right angle banana, silicone, 48&quot;, black</td>
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<td>TL, banana-to-right angle banana, silicone, 48&quot;, red</td>
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<td>BU-26103-0</td>
<td>Test Probe, banana, 1000V, IEC Cat III, black</td>
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<td>BU-26103-2</td>
<td>Test Probe, banana, 1000V, IEC Cat III, red</td>
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<td>1</td>
<td>BU-656-2</td>
<td>Safety Clip, insulated, banana, red</td>
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<td>BU-20434-0</td>
<td>Insulated plunger jaw clip, black</td>
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<td>BU-20434-2</td>
<td>Insulated plunger jaw clip, red</td>
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<td>Insulated spade lug, red</td>
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<td>BU-32101-0</td>
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<td>BU-32101-2</td>
<td>Banana Adapter, 1kV, 15 Amp, red</td>
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### 400000 (Fluke Replacement Industrial/Automotive DMM Meter Mate Kit)

Automotive/Industrial DMM Test Lead Kit offers modular test probes and leads compatible with all Fluke DMMs.

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<td>BU-65-2</td>
<td>Clip, insulated, banana, 1kV, 30 Amp red</td>
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<td>BU-20433-2</td>
<td>Insulated plunger, mini grip, 1kV, 1 Amp, red</td>
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<td>JP-491-0</td>
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<td>JP-491-2</td>
<td>Back probe, small, 20 Amp, red</td>
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<td>JP-591-0</td>
<td>Back probe, large, 20 Amp, black</td>
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KT-MS002 (Deluxe Micro-scale Test Kit)  
KT-MS001 (Deluxe Micro-scale Test Kit, accessories only)

Micro-scale Test Kit accessories are designed to attach to industry standard multimeter test probes or prods. These accessories allow convenient and safe testing on breadboards or printed circuit boards.

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KT-MS004 (Basic Micro-scale Test Kit)  
KT-MS003 (Basic Micro-scale Test Kit, accessories only)

KT-MS003 includes all of the above accessories without the 48" test leads.

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www.muellerelectric.com
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### Custom Manufacturing

In addition to the products found in our catalog, we manufacture a large variety of custom leads and interconnects for original equipment manufacturers. Our engineering staff continues to develop new answers for tomorrow’s most complex requirements. We design to international standards, written specifications or your application specific requirements. Core capabilities include thermo-plastic injection molding, automatic assembly and stamping.
Mueller's packaged product feature attractive point-of-purchase cards with related cross-selling product references. Mueller has assembled the most popular selling product in a comprehensive package program utilizing (UPC) bar code standards. Our package cards are designed to reduce retail real estate requirements.
## Mueller Clip/Insulator Reference Chart

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<th>Use With Insulator</th>
<th>Wire AWG</th>
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<td>Up to 3/0</td>
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### Additional Parts

- **Toll Free 800-955-2629**
- **400002** Electrical Kit
- **400003** Electronic Kit