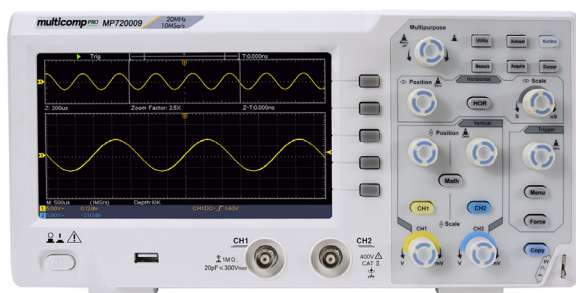


# Multicomp Pro Electronics Test and Measurement Kit **multicomp**PRO

## Dual Channel Digital Storage Oscilloscope

**RoHS  
Compliant**



3107568

### Features

- Bandwidth : 20MHz - 100MHz
- 2-Channels
- Sample rate : 100MS/s - 1GS/s
- Ultra-thin body
- 7 inch high resolution LCD
- SCPI, and LabVIEW supported

### Application

- Electronic circuit debugging
- Education and training
- Circuit testing
- Design and manufacture
- Automobile maintenance and testing

### Performance Specifications

Parameters	3107568
Bandwidth	20MHz
Sample Rate	100MS/s
Horizontal Scale (s/div)	5ns/div - 1000s/div, step by 1 - 2 - 5
Rise Time (at input, typical)	≤17.5ns
Channel	2
Display	7" colour LCD, 800 × 480 pixels
Input Impedance	1MΩ ±2%, in parallel with 20pF ±5pF
Channel Isolation	50Hz : 100 : 1, 10MHz : 40 : 1
Max Input Voltage	400V (PK - PK) (DC+AC, PK - PK)
DC Gain Accuracy	±3%
Record Length	10K
DC Accuracy (average)	Average≥16: ±(3% reading + 0.05 div) for ΔV
Probe Attenuation Factor	1X, 10X, 100X, 1000X
LF Respond (AC, -3dB)	≥10Hz (at input, AC coupling, -3dB)
Sample Rate / Relay Time Accuracy	±100ppm
Interpolation	sin (x) / x
Interval (ΔT) Accuracy (full bandwidth)	Single: ±(1 interval time + 100ppm × reading + 0.6ns), Average>16 : ±(1 interval time + 100ppm × reading + 0.4ns)
Input Coupling	DC, AC and GND
Vertical Resolution (A/D)	8 bits (2 channels simultaneously)
Vertical Sensitivity	5mV/div - 5V/div (at input)
Trigger Type	Edge, Video
Trigger Mode	Auto, Normal, and Single

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Parameters	3107568	
Trigger Level	±5 divisions from screen center	
Line / Field Frequency (video)	NTSC, PAL and SECAM standard	
Cursor Measurement	ΔV, and ΔT between cursors	
Automatic Measurement	Vpp, Vavg, RMS, Frequency, Period, Vmax, Vmin, Vtop, Vbase, Width, Overshoot, Pre-shoot, Rise time, Fall time, +Width, -Width, +Duty, -Duty, Delay A→B, Delay A→B, area, cycle area	
Waveform Math	+, -, x, ÷, invert, FFT	
Waveform Storage	16 waveforms	
Lissajous Figure	Bandwidth	Full bandwidth
	Phase Difference	±3 degrees
Communication Interface	USB host, USB device	
Frequency Counter	Available	
Power Consumption	<15W	
Fuse	2A, T class, 250V	
Dimension (W × H × D)	301mm × 152mm × 70mm	
Device Weight	1.1kg	
Power Supply	100V to 240V AC, 50/60Hz, CAT II	
Power Cord Plug Type	UK / EU	
Standard Accessories Included	Power cord, USB cable, CD-Rom.Manual, Probes, Probe Adjust Tool	
Optional Accessories Included	Soft bag	
Warranty	12 months	

## Function Generator



3130266

## Specifications

Part Number	3130266
Channel	1
Bandwidth	5MHz
Sampling Rate	125MS/s
Vertical Resolution	14 bits
Waveforms	Sine, Square, Pulse, Ramp, Noise, DC, Arbitrary (20 sets inside)
Sweep Modes	Logarithmic, linear

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<b>Part Number</b>	<b>3130266</b>
<b>Frequency Characteristics</b>	
Sine	1μHz to 2MHz
Square	1μHz to 2MHz
Ramp	1μHz to 200kHz
Pulse	1μHz to 2MHz
Arbitrary	1μHz to 1MHz
Resolution	1μHz
Accuracy	Within 90 days ±50ppm
	Within 1 year ±100ppm
	18°C to 28°C
<b>Output Characteristics</b>	
Impedance	50Ω/High Z
Amplitude Range	1mVpp to 10Vpp (50Ω); 2mVpp to 20Vpp (high Z)
DC Offset Range	-5Vpp to 5Vpp (50Ω) (AC+DC); -10Vpp to 10Vpp (high Z) (AC+DC)
Amplitude Resolution	1mV

## Bench Power Supply



1670781

## Specifications Table

Performance		1670781
Channels		Single Channel Adjustable
AC Input Voltage		230V ±10% / 50Hz, 110V, 220V ±10% / 60Hz
Output Voltage Range		0 - 30V
Output Current Range		0 - 3A
Load Regulation	Voltage	≤0.01% + 2mV
	Current	≤0.1% + 5mA
Line Regulation	Voltage	≤0.01% + 3mV
	Current	≤0.1% + 3mA

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Performance		1670781
Setup Resolution	Voltage	10mV
	Current	1mA
Setup Accuracy (25°C ±5°C)	Voltage	≤0.5% + 20mV
	Current	≤0.5% + 5mA
Ripple (20Hz - 20MHz)	Voltage	≤1m Vrms
	Current	≤3m Arms
Temperature Coefficient	Voltage	≤150ppm + 10mV
	Current	≤150ppm + 5mA
Read Back Accuracy	Voltage	10mV
	Current	1mA
Read Back Temperature Coefficient	Voltage	≤150ppm + 10mV
	Current	≤150ppm + 5mA
Reaction Time (10% Rated load)	Voltage Rise	≤100ms
	Current Drop	≤100ms
Interfaces	-	
Accessories	User Manual, Power Cord, UK Plug, Euro Plug, US Plug	
Weight	3.6kg	
Dimension (W x H x D)	110mm × 156mm × 260mm	

## Digital Multimeter



1274599

## Aligator Clip test lead set

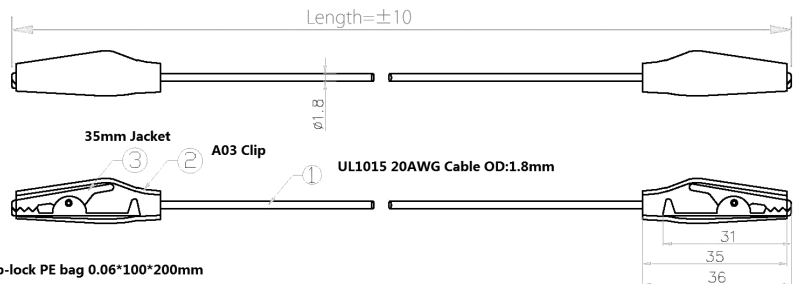


### Specification

White/Yellow/Red/Green/Black, 10pcs, each colour 2pcs.

3290136

Diagram



Package: 1pc/Zip-lock PE bag 0.06\*100\*200mm

Dimensions : Millimetres

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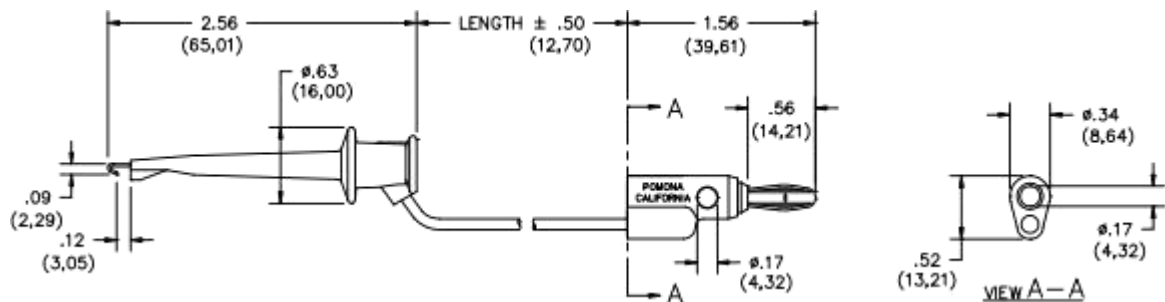
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# Multicomp Pro Electronics Test and Measurement Kit **multicomp**PRO

## Banana Plug Test Lead Set



2829202



### Features

- Provides a Minigrabber output from a Banana Jack.
- Banana plug is capable of vertical and cross stacking.
- Mates to Model 1581 or any standard Banana Jack.

### Materials

Conn: 1st End - Minigrabber®

Material: Contact – Beryllium Copper

Spring – Stainless Steel

Finish: Contact – Gold Plated

Insulation: Glass filled nylon. Color matches color of wire.

Marking: "POMONA ELECTRONICS" "MINIGRABBER®"

Wire: 20 AWG, stranding 41 x 36 t.c., PVC insulated 2.21 (.087) O.D.

Marking: "POMONA 3782-\*"

Conn: 2nd End – Stacking Banana Plug

Material: Spring – Beryllium Copper

Plug Body – Brass

Finish: Nickel Plated

Insulation: Polypropylene molded to plug body and wire. Colour matches colour of wire.

### Ratings

Operating Temperature: +55°C (+131°F) Max.

Operating Voltage: Hand-held testing: 30V AC/60V DC Max.

Hands free testing in controlled voltage environments: 300 WVDC

Current: 5 Amperes Cont.

ORDERING INFORMATION: Model 3782-XX-\*

XX = Cable Lengths, Standard Lengths: 12" (305mm), 24" (610mm), 36" (914mm), 48" (1219mm) & 60" (1524mm).

\*= Colour, -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue

Ordering Example: 3782-60-2 Indicates 60" in length, Colour is Red

Additional lengths and colors can be quoted upon request.

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## Oscilloscope Probe



2893199

### Features

Oscilloscope Probe Function	: Passive
Bandwidth	: 100MHz
Input Voltage Max	: 600V
Test Probe Attenuation	: 1:1, 10:1
For Use With	: Oscilloscopes

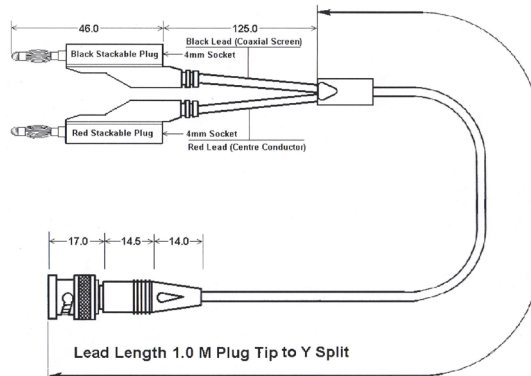
## BNC to Banana Plug



3153514

### Features

Test Lead	: BNC Plug to BNC Plug
Plating	: Nickel Plated BNC Plug Gold Pins
Boots	: PVC Moulded Strain Relief Boots
Cable	: RG58 Coaxial Black
Impedance	: 50Ω Characteristic Impedance
4mm Plugs	: PVC Mouldings Nickel Brass Contacts



## BNC to Crocodile



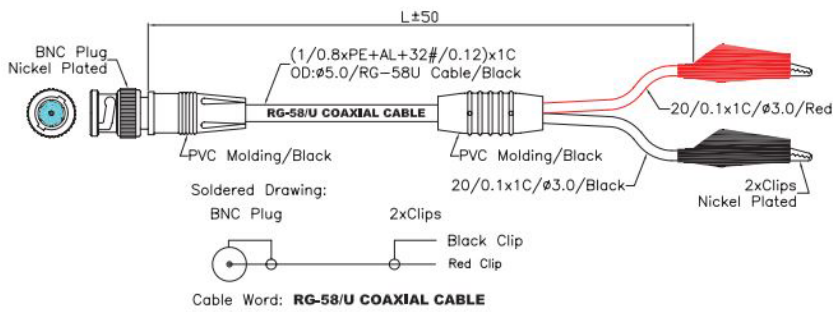
4284227

### Features

Test Connector Type A	: BNC Plug
Test Connector Type B	: Crocodile Clips x 2
Insulator Colour	: Black, Red
Lead Length - Metric	: 2m
Lead Length - Imperial	: 6.6ft

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## Diagram



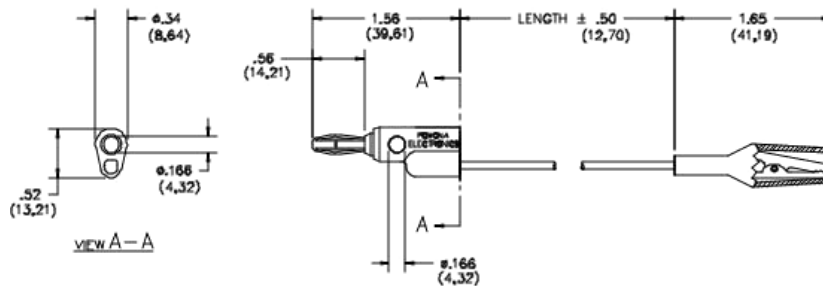
## Crocodile to Banana Red

### Features

Test Connector Type A	: Crocodile Clip
Test Connector Type B	: 4mm Stackable Banana Plug
Voltage Rating	: 60V
Current Rating	: 5A
Insulator Colour	: Red
Lead Length - Metric	: 914mm
Lead Length - Imperial	: 36"
Product Range	: Model 3220 Series



2406161



Dimensions : Millimetres

### Features

- Provides cross hole for cross stacking, and a jack for vertical stacking.
- Allows an Alligator Clip with leads to be used from a Banana Jack.

### Materials

Conn: Insulated Minigator Clip

Material: Steel.

Finish: Nickel plated.

Insulator: Vinyl.

Colour: Matches colour of wire.

Conn: Banana Plug

Material: Spring, Beryllium Copper per QQ-C-533, Alloy 172, Cond. HT. Plug Body, Brass per QQ-B-626, Alloy 360, ½ Hard.

Finish: Nickel plated per QQ-N-290, Class 2, 200/300 microinches.

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Insulation: Polypropylene molded to plug body and wire. Colour: Matches colour of wire.  
 Marking: "POMONA 3220-XX"

## Ratings

Operating Temperature: +50° C. (+122° F.) Max.  
 Operating Voltage: Hand-held testing: 30VAC/60VDC Max.  
 Current: 5 Amperes

**Ordering Information:** Model 3220-XX\*

XX = Cable Lengths, Standard Lengths: 4" (102), 12" (305), 18" (475), 24" (610), 36" (914), 48" (1219) & 60" (1524). Additional lengths can be quoted upon request.

\*= Colour, -0 Black, -2 Red

Ordering Example: 3220-60-2 Indicates 60" in length, color is Red.

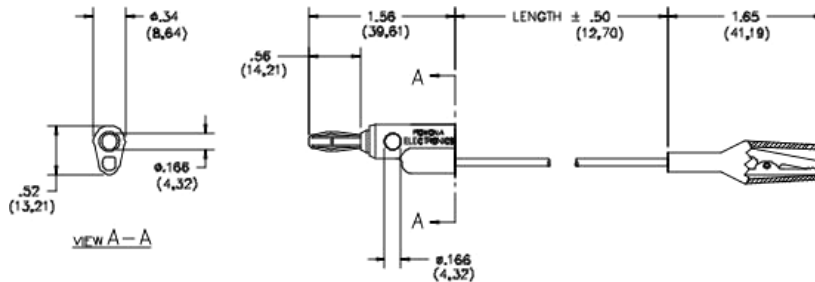
## Crocodile to Banana Black



2406158

## Features

Test Connector Type A	: Crocodile Clip
Test Connector Type B	: 4mm Stackable Banana Plug
Voltage Rating	: 60V
Current Rating	: 5A
Insulator Colour	: Black
Lead Length - Metric	: 914mm
Lead Length - Imperial	: 36"
Product Range	: Model 3220 Series



## Features

- Provides cross hole for cross stacking, and a jack for vertical stacking.
- Allows an Alligator Clip with leads to be used from a Banana Jack.

## Materials

Conn: Insulated Minigator Clip

Material: Steel.

Finish: Nickel plated.

Insulator: Vinyl.

Colour: Matches colour of wire.

Conn: Banana Plug

Material: Spring, Beryllium Copper per QQ-C-533, Alloy 172, Cond. HT. Plug Body, Brass per QQ-B-626, Alloy 360, 1/2 Hard.

Finish: Nickel plated per QQ-N-290, Class 2, 200/300 microinches.

Insulation: Polypropylene molded to plug body and wire. Colour: Matches colour of wire.

Marking: "POMONA 3220-XX"

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# Multicomp Pro Electronics Test and Measurement Kit **multicomp**PRO

## Ratings

Operating Temperature: +50°C. (+122°F.) Max.  
 Operating Voltage: Hand-held testing: 30VAC/60VDC Max.  
 Current: 5 Amperes

## Ordering Information: Model 3220-XX-\*

XX = Cable Lengths, Standard Lengths: 4" (102), 12" (305), 18" (475), 24" (610), 36" (914), 48" (1219) & 60" (1524). Additional lengths can be quoted upon request.

\*= Colour, -0 Black, -2 Red

Ordering Example: 3220-60-2 Indicates 60" in length, colour is Red.

## Banana to Banana Black



523690

### Features

Test Connector Type A	: 4mm Stackable Banana Plug
Test Connector Type B	: 4mm Stackable Banana Plug
Voltage Rating	: 60V
Current Rating	: 16A
Insulator Colour	: Black
Lead Length - Metric	: 250mm
Lead Length - Imperial	: 9.8"

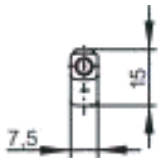
## Banana to Banana Red



523689

### Features

Test Connector Type A	: 4mm Stackable Banana Plug
Test Connector Type B	: 4mm Stackable Banana Plug
Voltage Rating	: 60V
Current Rating	: 16A
Insulator Colour	: Red
Lead Length - Metric	: 250mm
Lead Length - Imperial	: 9.8"



# Multicomp Pro Electronics Test and Measurement Kit **multicomp**PRO

Kit Content Description		
Order Code	Description	Qty.
3107568	Oscilloscope	1
3130266	Function Generator	1
3498310	Digital Multimeter	1
2563981	Bench Power Supply	1
3290136	Aligator Clip test lead set	1
2829202	Banana Plug test lead set	2
2893199	Oscilloscope probe	2
3153514	BNC to Banana plug	2
4284227	BNC to Crocodile	2
2406161	Crocodile to Banana Red	2
2406158	Crocodile to Banana Black	2
523690	Banana to Banana Black	2
523689	Banana to Banana Red	2

## Part Number Table

Description	Part Number
Multicomp Pro Electronics Test and Measurement Kit	35421427

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