





Introduction

About Cal Test Electronics

Since 1995, Cal Test Electronics has provided high quality accessories to an ever-evolving test and measurement market. From the standard to the unique, Cal Test offers solutions to fit any need.

Founded to provide original equipment manufacturers (OEMs) with custom test accessory solutions, the company has expanded, supplying its own name-brand products to a network of world-class distributors. In 2009, Cal Test purchased Global Specialties along with their offering of educational electronic products.



For most of its 20-year history, Cal Test has enjoyed a close relationship with B&K Precision Corporation, a prominent test instrument manufacturer, through a mutual shareholder position. Although both companies maintain separate corporate identities, their strong affiliation allows each to stay at the forefront of their respective markets. Their joint relationship allows B&K Precision to market the Global Specialties educational line through its international distributors, and Cal Test to be the sole supplier of test accessories to the B&K Precision instrument line.

To strengthen its European presence, Cal Test partners with Sefram Instruments SAS, a B&K Precision subsidiary, and markets selected products under the ELDITEST brand, a time-honored name in Europe.

With the 2013 acquisition of Pintek Electronics, Ltd., a well-known and respected Taiwanese test equipment manufacturer, Cal Test significantly increased its resources for manufacturing both standard and custom products.

Today, Cal Test provides one of the most complete test accessory offerings available on the market, which include:

- Oscilloscope probes passive, active, and high voltage
- DMM probes, leads, and complete accessory kits
- Banana plugs, jacks, and test lead assemblies
- Coaxial adapters and cable assemblies
- Test lead wire and storage racks

By following the latest technological advances in electronics, Cal Test regularly develops and introduces new products to meet the ever-changing needs of the test and measurement industry. We look forward to serving you in the decades to come.

Sincerely, Bill Hansen, President

20 Years of Service Excellence

Customers have been relying on Cal Test Electronics for more than 20 years. We have a time proven commitment to providing the best service, quality, selection and value.

Technical Assistance

Expert help is just a phone call away. Our product managers are ready to answer your technical questions or to provide assistance in selecting the right product for your application.

Warranty

Every new Cal Test accessory comes with a standard 1-year warranty against defects from the original date of purchase.

Distribution

An extensive network of independent distributors provides Cal Test Electronics products worldwide. Visit our website for a list of authorized distributors.

Web

For the most up-to-date product information, news, and support, visit our website at:

caltestelectronics.com

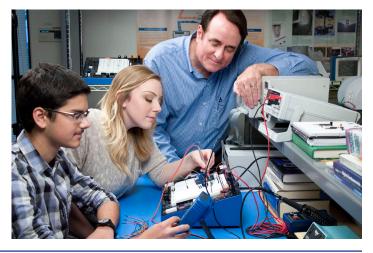




Also visit: globalspecialties.com







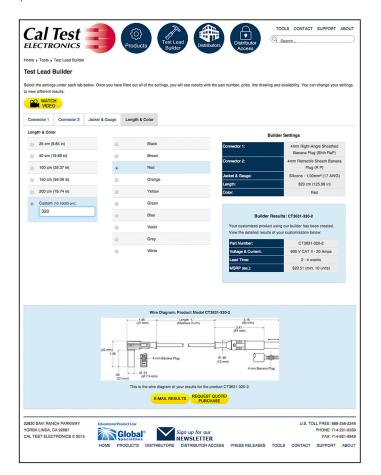
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Test Lead Builder

Along with its extensive offering of standard products, Cal Test has the capability of building custom accessories as required to meet your specific needs.

Our website features a custom Test Lead Builder which allows you to configure a special test lead to exactly fit the needed application. Just make some easy selections and you will be presented with all pertinent information.





Scan QR code to view the Test Lead Builder.



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New Products



AC/DC Clamp-On **Current Probes ELDITEST Brand**

- 8 models available
- Current ranges: 40, 50, 70 & 100 A
- Bandwidths: 300 kHz, 500 kHz, 1 MHz & 1.5 MHz
- Dual sensitivity ranges & over-range indicator
- Includes adapter for either North America (120 V 60 Hz), or European (230 V 50 Hz) mains
- Full accessories included
- For full Specs see page 22

Model





High Voltage Differential Probes ELDITEST Brand

Model CT4076: 35 MHz, 100x/1000x Model CT4079: 50 MHz. 200x/2000x Model CT4078: 120 MHz, 30x to 3000x For full Specs see page 11



Model CT2944-75: 75 Ω **Model CT2944-93:** 93 Ω For full Specs see page 55

Model CT2944-50, CT2944-75, CT2944-93



General Purpose Differential Probes ELDITEST Brand

- Bandwidth: 35 MHz • Attenuation: 10x/100x For full Specs see page 9
- Model

CT4068



High Voltage Oscilloscope Probes ELDITEST Brand

Model CT4024: 40 MHz, 1000x Model CT4025: 120 MHz, 100x Model CT4026: 150 MHz, 1000x Model CT4028: 220 MHz, 1000x For full Specs see page 15

Model CT4024, CT4025, CT4026, CT4028



Insulated BNC to 4mm Banana Plugs

Insulated BNC female to double banana plugs. Model CT3888: <30 VAC / <60 VDC Model CT3889: 1,000 V CAT II / 600 V CAT III For full Specs see page 50 Model CT3888, CT3889



Active FET Oscilloscope Probe ELDITEST Brand

- 1.2 GHz bandwidth
- 10x attenuation
- Low 3 pF input capacitance
- Over-range indicator
- USB adapter and battery power included
- Full accessories included
- For full Specs see page 7

Model





Fused Probes ELDITEST Brand

- IEC rating 1,000 V CAT III /
- 600 V CAT IV w/protective cap • Replaceable 1,000 VAC / VDC, 11 A,
- 20 kA IR fast-acting fuse • Special circuit prevents hazardous "zero" reading in blown fuse situation

Model CT3999: Probe set Model CT3997: Probe body Model CT3998-11A: Replacement fuse For full Specs see page 32



In-Line 4mm Banana Jacks Sheath, Fully Insulated, **DIY Assembly, Solder**

- 1,000 V CAT III / 600 V CAT IV, 36 A
- Do-it-yourself connection
- For full Specs see page 59

Model

caltestelectronics.com

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New Products



Electrical DMM Kit

- IEC 61010-031 rated accessories
- Cap on probe body tip provides CAT III / CAT IV rating
- Silicone jacketed lead wire
- Extra large alligator clips for electrical work
- Includes tri-fold nylon pouch
- For full Specs see page 85





4mm Banana Plugs Sheath, In-Line, Solder

• 1,000 V CAT III / 600 V CAT IV, 36 A • Do-it-yourself safety plugs For full Specs see page 66





Basic Electrical DMM Kit

- IEC 61010-031 rated accessories
- Silicone jacketed lead wire
- Cap on probe body tip provides CAT III / CAT IV rating
- Includes tri-fold nylon pouch For full Specs see page 85

Model

CT3738C



4mm Banana Plugs Sheath, Right-Angle, Solder

• 1,000 V CAT III / 600 V CAT IV, 20 A Do-it-yourself safety plugs

For full Specs see page 67





General Purpose Handheld DMM Kit

- IEC 61010-031 rated accessories
- Cap on probe body tip provides CAT III / CAT IV rating
- Sprung hooks snap-lock to probe bodies
- Silicone jacketed lead wire
- Right-angle 4 mm sheath banana plug for hand-held meter connection
- Packaged in clear PVC pouch For full Specs see page 82







General Purpose Bench DMM Kit

- IEC 61010-031 rated accessories
- Cap on probe body tip provides CAT III / CAT IV rating
- Sprung hooks snap-lock to probe bodies
- Silicone jacketed lead wire
- Straight 4 mm sheath banana plugs for bench meters
- Extra large alligator clips
- Packaged in clear PVC pouch
- For full Specs see page 87

CT3201-S-#	Model	СТ2695С



Oscilloscope Probes

Most electronic testing requires some type of measurement probe in conjunction with a test instrument to safely and accurately access a device under test. With so many different oscilloscope probes to choose from, our goal is to make it easy for you to locate the probe that meets your needs. Whether you are looking for a simple passive, differential, current or a full featured active FET probe, you will be able to quickly scan through our extensive offerings to find the model that's just right for you.

Active FET	7
Differential	
Passive	13-14, 16-21
High Voltage	15
Current	22-23
Accessories	. 7, 10, 14, 20-21

Active FET



Model	CT4121	
Bandwidth	DC to 1.2 GHz	
Accuracy	±2%	
Input Impedance	1 MΩ//3 pF (Typical)	
Attenuation	10:1	
Risetime	291 ps	
Input Voltage: •Max Differential (DC+Peak AC) •Absolute Max Voltage (DC+Peak AC)	±15 V ±40 V	
Output Voltage: •Swing (into 50 Ω load) •Offset (Typical)	±1.5 V <±5 mV	
Adjustable Output Offset Range	> -28 mV to +28 mV	
Output Impedance	50 Ω	
Output Cable (BNC)	120 cm	
Power Requirements	5 VDC to 9 VDC / 200 mA	
Operating Temperature/Humidity	-10 to +40°C / 0 to 85% RH	
Storage Temperature/Humidity	-30 to +70°C / 0 to 85% RH	
Dimensions	83 x 19 x 14 mm	
Weight	200 g w/o battery	

Active FET Probe Accessories



Feed-Thru Terminator CT2944-50 Model

Impedance: 50 Q

BNC

Frequency Range: DC to 2 GHz • See page 55 for complete

- specifications
- RoHS (2011/65/EU)



USB Power Lead CT4122

Model Length: 200 cm

- USB to 3.5 mm power plug
- Center pin positive
- RoHS (2011/65/EU)

Active FET Oscilloscope Probe ELDITEST Brand

Introducing a high performance active probe to extend the functionality of general-purpose oscilloscopes. The cost effective ELDITEST CT4121 probe features a compact active FET probe with a 1.2 GHz bandwidth and low 1 M Ω , 3 pF input impedance. The probe is ideal for analysis, troubleshooting, and verification of high-speed logic and communication designs. Includes a USB power lead that allows the probe to be powered directly by the scope, or alternatively, a 9 V battery (included) for portability. The BNC feed-thru terminator matches the probe to $1 M\Omega$ fixed input oscilloscopes.

- Meets IEC 61010-031 safety standards
- Power and over-range indicator
- USB or battery power
- RoHS (2011/65/EU) compliant
- Also uses power adapter Model CT3723 (not included)
- Kit comes in foam-lined case and contains:
 - (1) Active FET probe
 - (1) USB Power load
- (1) 9 V Battery
- (1) 50 Ω feed-thru terminator
- (1) Accessory kit (see CT4123)
- (1) User manual



Connection Accessory Kit

Model	CT4123	
• RoHS (20	HS (2011/65/EU)	
. 1/:+		

- Kit contains:
- (2) SMD test clip, grey (CT3659-8)
- (2) MicroLeads, 0.8 mm, P-J, 5 cm, B/R
- (2) MicroLeads, 0.8 mm, P-J, 10 cm, B/R
- (2) Ground pin, bent
- (2) Test tip, insulated, 0.8 mm, 12.8 mm
- (2) Test tip, insulated, 0.8 mm, 16.8 mm
- (6) Test tip, un-insulated, 0.8 mm, 11.6 mm

Differential



General Purpose Differential Probes

Differential probes allow safe, accurate measurement between two voltage points where neither point is referenced to ground. The three models feature 2 attenuation settings, bandwidths to 100 MHz and differential voltages up to 1,400 V. Compatible with oscilloscopes from all major manufacturers, the probes can be battery operated or powered by a universal power adapter (not included). Models CT2593-1 & -2 include protective rubber boots. Models CT3686 & CT3687 feature power and over-range indicators.



- Meet IEC 61010-031 safety standards
- RoHS (2011/65/EU) compliant
- Use power adapter CT3723 (not included)
- Kits contain:
- (1) Differential probe
- (2) Hook probes, black & red
- (4) AA batteries
- (1) User manual

Model	CT2593-1	СТ2593-2	СТ3686	СТ3687
Bandwidth	25 MHz 100 MHz		MHz	
Attenuation	20x/200x	10x/	100x	100x/1000x
Accuracy		±2	2%	
Risetime	14	ns	3.5	ns
Input Impedance		4 MΩ//5.5 pF		4 MΩ//7 pF
Input Voltage:				
Differential Voltage (DC+Peak AC)	±140 V/±1,400 V	±70 V/	±700 V	±140 V/±1,400 V
Common-Mode Voltage (DC+Peak AC)	±1,400 V	±700 V	±700 V or 500 Vrms	±1,400 V or 1,000 Vrms
Absolute Max Voltage (DC+Peak AC)	±1,400 V ±1,400 V or 1,000 Vrms		000 Vrms CAT III	
Output Voltage:				
Swing	±7 V (into 50 kΩ load)			
Offset (Typ.)	±5 mV			
Noise (Typ.)	0.7 mVrms 0.9 mVrms		Nrms	
Source Impedance (Typ.)	50 kΩ			
CMRR (Typ.)	-86 dB@50 Hz; -66 dB@20 kHz		-85 dB@50 Hz; -55 dB@1 MHz	
Cable Length	95 cm			
Input Leads Length	45 cm 30 cm		cm	
Weight	400 g		50	0 g
Dimensions	170 x 63 x 21 mm 202 x 83 x 38 mm		x 38 mm	

Differential



*Model	CT4068-NA CT4068-EU	
Bandwidth	35 MHz	
Attenuation	10x/100x	
Accuracy	±2%	
Risetime	10 ns	
Input Impedance	9 MΩ//1.7 pF	
Input Voltage:		
Differential Voltage (DC+Peak AC)	±80 V /±800 V	
Common-Mode Voltage (DC+Peak AC)	±800 V or 560 Vrms	
Absolute Max Voltage (DC+Peak AC)	±800 V or 560 Vrms	
Output Voltage:		
Swing	±8 V (±4 V into 50 Ω load)	
Offset (Typ.)	≦ 5 mVDC	
Noise (Typ.)	≦ 1 mVrms	
Source Impedance (Typ.)	50 Ω	
CMRR (Typ.)	-80 dB@60 Hz; -60 dB@100 Hz; -50 dB@1 MHz	
Cable Length	100 cm (separate leads)	
Input Leads Length	60 cm (separate leads)	
Weight	250 g	
Dimensions	195 x 55 x 30 mm	

* Suffix for Power Adapter: – NA North American style plugs – EU European style plugs

New

General Purpose Differential Probes ELDITEST Brand

ELDITEST general-purpose differential probes allow for safe, accurate measurements between two voltage points where neither point is referenced to ground.

Model CT4068 features 10x/100x attenuation settings, 35 MHz bandwidth and ±800 V maximum differential - all in a compact, safety yellow housing. Compatible with oscilloscopes from all major manufacturers, the probe is ideal where high sensitivity and dynamic range is needed. The included power adapter is available for either North American (120 V 60 Hz) or European (220 V 50 Hz) mains.

- Meet IEC 61010-031 safety standards
- Power and over-range indicators
- RoHS (2011/65/EU) compliant
- Kits contain:
- (1) Differential probe
- (2) Pincer clips, black & red
- (2) Alligator clips, black & red
- (2) Banana plug leads, black & red
- (1) Insulated BNC cable
- (1) Power adapter
- (1) User manual

Differential



High Voltage Differential Probes

High voltage differential probes allow for safe, accurate measurements between two voltage points where neither point is referenced to ground and voltages reach to ±7,000 V. Models CT3681 and CT3683 feature 100x/1000x attenuation settings, 70 MHz bandwidth and ±7,000 V maximum differential. Compatible with oscilloscopes from all major manufacturers, the probes can be battery operated or powered by a universal power adapter (not included).

- Meet IEC 61010-031 safety standards
- Power and over-range indicators
- RoHS (2011/65/EU) compliant
- Use power adapter CT3723 (not included)
- Kits contain:
- (1) Differential probe
- (2) Hook probes, black & red (CT3681)
- (2) HV Alligator clips, black & red (CT3683)
- (4) AA batteries
- (1) User manual



- Switching adapter
- Length: 150 cm
- RoHS (2011/65/EU) compliant

Model	СТ3681	СТ3683	
Bandwidth	70 MHz		
Attenuation	100x/	1000x	
Accuracy	±2	2%	
Risetime	5	ns	
Input Impedance	10 MΩ//10 pF	50 MΩ//7 pF	
Input Voltage:			
Differential Voltage (DC+Peak AC)	±700 V	/ ±7 kV	
Common-Mode Voltage (DC+Peak AC)	±7 kV or 2.5 kVrms	±7 kV or 5 kVrms	
Absolute Max Voltage (DC+Peak AC)	±7 kV or 2.5 kVrms	±7 kV or 5 kVrms	
Output Voltage:			
Swing	±7 V (into S	50 kΩ load)	
Offset (Typ.)	±5 mV		
Noise (Typ.)	0.9 mVrms		
Source Impedance (Typ.)	50 kΩ		
CMRR (Typ.)	-80 dB@50 Hz; -60 dB@20 kHz		
Cable Length	90 cm		
Input Leads Length	60 cm		
Weight	500 g		
Dimensions	202 x 83 x 38 mm		

Model	СТ3723	
Input Power	100-240 VAC 50/60 Hz	
Output Power	9 VDC 500 mA	
Output Plug	2.1 mm x 5.5 mm, Center Pin Positive	
UL Listed	Yes	
Use with Models	CT2593-1, CT2592-2, CT3681, CT3683, CT3686, CT3687, CT3684, CT3685, CT3688	

Differential

CT4078-NA CT4078-EU



New

High Voltage Differential Probes ELDITEST Brand

ELDITEST high voltage differential probes allow for safe, accurate measurements between two voltage points where neither point is referenced to ground and voltages reach to ± 15 kV.

Models CT4076 and CT4079 feature 100x/1000x and 200x/2000x attenuation ranges, respectively, while Model CT4078 features 5 attenuation settings from 30x to 3000x - all in a compact, safety yellow housing. Compatible with oscilloscopes from all major manufacturers, the probes are ideal where high sensitivity and wide dynamic range is needed. The included power adapters are available for either North American (120 V 60 Hz) or European (220 V 50 Hz) mains.

CT4079-NA CT4079-EU

- Meet IEC 61010-031 safety standards
- Power and over-range indicators
- RoHS (2011/65/EU) compliant
- Kits contain:
- (1) Differential probe
- (2) HV pincer clips, black & red
- (2) Alligator clips, black & red
- (2) HV banana plug leads, black & red
- (1) Insulated BNC cable
- (1) Power adapter
- (1) User manual

*Model	CT4076-NA CT4076-EU	СТ4079-NA СТ4079-EU	CT4078-NA CT4078-EU
Bandwidth	35 MHz	50 MHz	120 MHz
Attenuation	100x/1000x	200x/2000x	30x/100x/300x/1000x/3000x
Accuracy		±2%	
Risetime	10 ns	7 ns	3 ns
Input Impedance	50 MΩ//1.3 pF	40 MΩ//1.3 pF	100 MΩ//1.0 pF
Input Voltage:			
Differential Voltage (DC+Peak AC)	±750 V / ±7.5 kV	±1.5 kV / ±15 kV	±110 V / ±350 V / ±1.1 kV / ±3.5 kV / ±11 kV
Common-Mode Voltage (DC+Peak AC)	±7.5 kV or 5.5 kVms	±15 kV or 10 kVms	±11 kV or 7.8 kVms
Absolute Max Voltage (DC+Peak AC)	±7.5 kV or 5.5 kVms	±15 kV or 10 kVms	±11 kV or 7.8 kVms
Output Voltage:			
Swing	±8 V (±4 V into 50 Ω load)		±5 V (±2.5 V into 50 Ω load)
Offset (Typ.)	≦ 5 mVDC		
Noise (Typ.)	≦ 1 mVrms < 1 m ²		۱Vrms
Source Impedance (Typ.)	50 Ω		
CMRR (Typ.)	-80 dB@60 Hz; -60 dB@100 Hz; -50 dB@1 MHz		
Cable Length	100 cm (separate leads)		
Input Leads Length	60 cm (separate leads)		
Weight	350 g		
Dimensions	220 x 85	x 30 mm	245 x 76 x 32 mm

* Suffix for Power Adapter: - NA North American style plugs

– EU European style plugs

Differential



Precision Differential Probes

Precision differential probes allow for safe, accurate measurements between two voltage points where neither point is referenced to ground and high accuracy is required. These small size probes feature fixed 10x or 100x attenuation and bandwidths up to 200 MHz. Accuracy is \pm 1% with the best CMRR in power measurement probes. Compatible with oscilloscopes from all major manufacturers, the probes can be battery operated or powered by a universal power adapter (not included).

- Meet IEC 61010-031 safety standards
- Compact probe bodies
- Power indicator
- RoHS (2011/65/EU) compliant
- Use power adapter CT3723 (not included)
- Kits come in a foam-lined plastic case and contain: (1) Differential probe
 - (2) Hook clips, black & red
 - (1) User manual

Model	CT3684	СТ3685	СТ3688
Bandwidth	50 MHz		200 MHz
Attenuation	10x	100x	10x
Accuracy		±1%	
Risetime	7	ns	1.75 ns
Input Impedance	1.6 MΩ//7 pF	4 MΩ//7 pF	500 kΩ//7 pF
Input Voltage:			
Differential Voltage (DC+Peak AC)	±70 V or 70 Vrms	±700 V or 600 Vrms	±20 V or 50 Vrms
Common-Mode Voltage (DC+Peak AC)	±700 V or 600 Vrms	±1,400 V or 600 Vrms	±60 V or 40 Vrms
Absolute Max Voltage (DC+Peak AC)	±700 V or 600 Vrms CAT II	±1,400 V or 600 Vrms CAT II	±60 V or 40 Vrms
Output Voltage:			
Swing	±7	7 V	±2 V (into 50 Ω load)
Offset (Typ.)	<±2 mV	<±1 mV	±2 mV
Noise (Typ.)	0.7 mVrms 0.3 mVrms		۱Vrms
Source Impedance (Typ.)	50 Ω		
CMRR (Typ.)	-95 dB@60 Hz; -60 dB@1 MHz	-90 dB@60 Hz; -55 dB@1 MHz	-80 dB@100 Hz; -50 dB@10 MHz
Cable Length	125 cm		
Input Leads Length	50 cm		
Weight	300 g		
Dimensions	111 x 22 x 14 mm		

Passive & Accessories





Model	CT3290RA	CT3290RA-PRO
Bandwidth	500	MHz
Attenuation	10)х
Input Impedance	10	MΩ
Input Capacitance	8 pF	
Output Impedance	1 ΜΩ	
Risetime	0.7 ns	
IEC Rating	300 V CAT II	
Compensation	8-18 pF	
Cable Length	1.3 m	
Readout Actuator	Yes	

Accessory	Kit Co	ntains
Attenuator Tip Cover	1	1
Slip-on GND Lead w/Alligator Clip	1	1
Sprung Hook, Grey	1	1
Deluxe Trimmer Tool	1	1
Low Impedance Ground Tip	1	1
Ground Collar	1	1
SMT IC Test Clip, Grey	1	3
Slip-on GND Lead w/0.6 mm Jack	1	1
Identifier Rings (5 x 2 colors)	1	1
Twin Lead Adapter, 3.5 mm		1
BNC Adapter, 3.5 mm		1
Cover Shell (no Slip-on GND)		1
Cover Shell (w/ Slip-on GND)		1
Probe Tip GNDs (0.1, 0.2, 0.3 & 0.4")		1
IC Tip Insulator		1
Tip Insulator		1
IC Lead Combs, 0.050" (Yellow)		3
IC Lead Combs, 0.025" (Blue)		3
IC Lead Combs, 0.5 mm (Red)		3

Passive Voltage Compact Body, 3.5mm Replacement for Tektronix[®] P6139A*

One of our highest frequency passive probes at 500 MHz. Excellent replacement probe when the application requires the utilization of high frequency scopes. Probes include a readout actuator pin (sense pin) on the BNC connector. Model CT3290RA comes complete with accessories, Model CT3290RA-PRO includes enhanced accessories (see images).

- IEC 61010-031 rated
- RoHS (2011/65/EU) compliant

 $\ensuremath{^{\circledast}}$ is a registered trademark of Tektronix, Inc.

Passive & Accessories

3.5mm Oscilloscope Probe Accessories

- Compatible with all 3.5 mm compact oscilloscope probes
- RoHS (2011/65/EU) compliant



Ground Lead

Model CT3645-12-8

Specialized slip-on ground lead with miniature alligator clip. 12 cm long, color grey. Sold in package of 5.

Tip Insulator

Model CT3646-8

Cover for the attenuator tip assembly, color grey. Sold in package of 10.



Sprung Hook

Model CT3647-8 Probe sprung hook. Gold plated, color grey. Sold in package of 10.



Ground Tip

Model	СТ3649
Low impe	dance 3.5 mm compac

probe tip used in conjunction with ground collar CT3650-8 for low impedance grounding. Sold in package of 10.



Ground Collar

Model	CT3650-8

Collar for 3.5 mm compact probes used in conjunction with ground tip CT3649 for low impedance readings. Color grey. Sold in package of 10.

Cover Shell

Model CT3652-8

Cover shell for 3.5 mm compact probes with slip-on ground. Used for connecting BNC adapter and probe tip grounds. Use in conjunction with tip Insulator CT3653-8. Color grey. Sold in package of 10.

Tip Insulator

Model CT3653-8

Tip cover for 3.5 mm compact probes. Use in conjunction with cover shell CT3652-8. Color grey. Sold in package of 10.

IC Tip Insulator

Model CT3654-8

Tip cover for IC probing. Replacement tip compatible with all 3.5 mm compact scope probes. Use in conjunction with cover shell CT3652-8. Color grey. Sold in package of 10.



BNC Adapter

Model CT3655

Non-terminated BNC tip adapter. Use in conjunction with cover shell CT3652-8. Sold in package of 10.



Ground Lead Model CT3661-15-8

Specialized ground lead. Slip-on ground with 0.6 mm pin jack. Use with SMT Test Clip, CT3659-8. 15 cm long. Color grey. Sold in package of 10.

Attenuator Tip

Model CT3667

Replacement attenuator tip assembly, 10x, 500 MHz. Will work for both the CT3290RA and the CT3290RA-PRO. Sold in package of 5.



IC Comb Kit

12-piece IC lead comb kit. Red, 0.5 mm lead centers. Gold plated. Sold in package of 1.



Model

Cover Shell & Tip Grounds

СТ3672

Cover for attenuator tip assembly with probe tip grounds. Kit includes 2 each of 4 ground tip sizes: 0.1", 0.2", 0.3" and 0.4" spacing. Gold plated ground tips. Sold in package of 1.



IC Comb Kit

Model

12-piece IC lead comb kit. Yellow, .050" lead centers. Gold plated. Sold in package of 1.

CT3675



IC Comb Kit Model CT3676

Sold in package of 1.

12-piece IC lead comb kit. Blue, .025" lead centers. Gold plated.

Model CT3677



Twin Lead Adapter

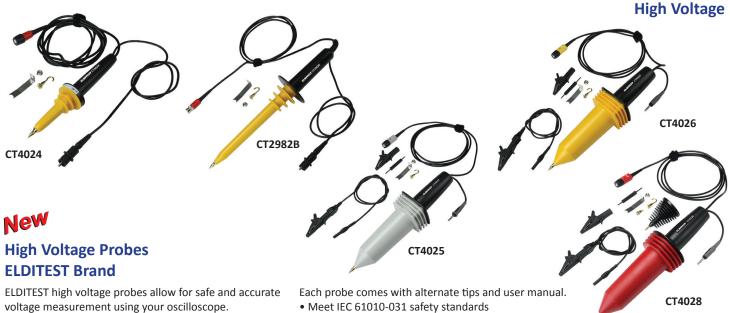
Model CT3678

Twin lead adapter with two SMT Test Clips. Use with cover shell. Sold in package of 1.

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Downloaded from Arrow.com.



- Meet IEC 61010-031 safety standards
- RoHS (2011/65/EU) compliant

Ζ

The five models feature both 100x or 1000x divider ratios with voltages up to 28 kVrms and bandwidths to 220 MHz. Compatible with oscilloscopes from all major manufacturers, the probes are required for safe user measurements.

	As with any high voltage instrument, please read and follow all user instructions.
<mark>:</mark> \	read and follow all user instructions.

Model	СТ4024	СТ2982В	СТ4025 СТ4026		CT4028		
Bandwidth	40 MHz	50 MHz	120 MHz	150 MHz	220 MHz		
Attenuation	100)0x	100x	1000x			
Input Impedance		100 MΩ		200 ΜΩ 900 ΜΩ			
Input Capacitance	3	pF	2 pF	1.5 pF 2 pF			
Output Impedance			1 MΩ				
Risetime	9 ns	7 ns	3 ns	2.4 ns	1.6 ns		
Voltage Max (DC+AC peak)	8 kV	15 kV	10 kV CAT II 18 kV CAT II		40 kV CAT II		
Voltage Max (ACrms)	6 kV	10 kV	7 kV CAT II 12 kV CAT II 28 kV		28 kV CAT II		
Compensation	5-50	0 pF	10-35 pF				
VDC Accuracy	±2% (DC to 5 kV) ±3% (5 kV to 8 kV)	±3% (DC to 15 kV)	≤3% Full Range				
VAC Accuracy	≤3% @ 1 kHz						
Cable Length		2 m ± 0.2 m					
Readout Actuator			Yes				

High Voltage Oscilloscope Probe Accessories

Can be used with all HV probes



Round **Replacement Tip**

Model CT2960A 5 mm thread. Gold plated. Sold in package of 10. RoHS (2011/65/EU) compliant.



Hook **Replacement Tip**

Model CT2961A

5 mm thread. Gold plated. Sold in package of 10. RoHS (2011/65/EU) compliant.



Flat Bar Replacement Tip

CT2962A Model 5 mm thread. Gold plated. Sold in package of 10. RoHS (2011/65/EU) compliant.



BNC Converter

Model	СТ3197В

Converter adapts high voltage oscilloscope probes for use with digital multimeters (DMMs).

- Bandwidth: DC to 50 MHz
- Meter impedance: 10 Ω
- RoHS (2011/65/EU) compliant

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Passive



Passive Voltage, 5mm

Cal Test's standard 5 mm passive voltage probes offer excellent quality and performance at an economical price. With low noise figures and wide compensation ranges, the probes work with oscilloscopes from all major manufacturers.

- Bandwidths to 500 MHz
- Fixed and switched attenuations
- Wide compensation ranges

- Selected models with readout actuators (sense pins)
- IEC 61010-031 rated
- Full accessories included
- Model CT3288ARA features enhanced accessory kit: (1) twin lead adapter, (3) SMT IC test clips, (1) GND lead with (1) 0.6 mm jack and probe top grounds (0.1, 0.2, 0.3 & 0.4")
- RoHS (2011/65/EU) compliant

Fixed - 600 V Rated

Model	СТ2678	CT2676A	CT2676ARA	CT2840RA	CT3133	CT3133RA	CT3288RA	CT3288ARA*
Bandwidth	15 MHz	100 MHz		250 MHz	350 MHz		500 MHz	
Attenuation	1x		10x					
Input Impedance	1 MΩ		10 ΜΩ					
Input Capacitance	46 pF	16 pF		14 pF	12 pF			
Output Impedance		1 ΜΩ						
Risetime	27 ns	3.5 ns 1.4 ns 1 ns 0.7 ns			7 ns			
IEC Rating		300 V CAT II / 600 V CAT 0						
Compensation		10-35 pF				9–18 pF		
Cable Length		1.2 m						
Readout Actuator	N	lo	Yes	Yes	No	Yes		

Accessory	Kit Contains							
Sprung Hook	1	1	1	1	1	1	1	1
GND Lead w/Alligator Clip	1	1	1	1	1	1	1	1
BNC Adapter	1	1	1	1	1	1	1	1
Replacement Tip	1	1	1	1	1	1	1	1
Probe Tip Ground		1	1	1	1	1	1	
Trimmer Tool		1	1	1	1	1	1	1
IC Tip Insulator	1	1	1	1	1	1	1	1
Tip Insulator	1	1	1	1	1	1	1	1
Identifier Rings					1	1	1	1

* CT3288ARA includes an enhanced kit described in copy above.

Fixed - 1,200 V Rated

Model	CT2707		
Bandwidth	250 MHz		
Attenuation	100x		
Input Impedance	100 MΩ		
Input Capacitance	6.5 pF		
Output Impedance	1 ΜΩ		
Risetime	1.4 ns		
IEC Rating	1,200 V CAT 0		
Compensation	10-35 pF		
Cable Length	1.2 m		
Readout Actuator	No		

Kit Contains						
Sprung Hook	1					
GND Lead w/ Alligator Clip	1					
BNC Adapter	1					
Replacement Tip	1					
Trimmer Tool	1					
IC Tip Insulator	1					
Tip Insulator	1					



Passive



Passive Voltage, 5mm (continued)

Switchable - 600 V Rated

Model	СТ2703	CT2674A	CT2704	CT2704SA	СТ2675А	CT3277SA	CT2850	CT2841A
Bandwidth	15/60 MHz	6/100 MHz	15/100 MHz		10/200 MHz	6/250 MHz	10/250 MHz	15/350 MHz
Attenuation	1x/10x	1x/10x/REF	1x/10x		1x/10x/REF	1x/10x	1x/10x/REF	1x/10x
Input Impedance	1/10 ΜΩ							
Input Capacitance	46/18 pF	90/16 pF	45/16 pF		90/14 pF	47/17 pF	90/14 pF	90/12 pF
Output Impedance	1 ΜΩ							
Risetime	27/5.8 ns	58/3.5 ns	27/3.5 ns		35/1.8 ns	58/1.4 ns	35/1.4 ns	27/1.0 ns
IEC Rating	300 V CAT II / 600 V CAT 0							
Compensation	10-35 pF							
Cable Length	1.2 m							
Readout Actuator				Ν	lo			
Insulated BNC		No Yes No Yes No					0	

Accessory				Kit Co	ntains			
Sprung Hook	1	1	1	1	1	1	1	1
GND Lead w/Alligator Clip	1	1	1	1	1	1	1	1
BNC Adapter	1	1	1	1	1	1	1	1
Replacement Tip	1	1	1	1	1	1	1	1
Probe Tip Ground		1	1	1	1	1	1	1
Trimmer Tool	1	1	1	1	1	1	1	1
IC Tip Insulator	1	1	1	1	1	1	1	1
Tip Insulator	1	1	1	1	1	1	1	1
Identifier Rings	1		1	1		1		1

Passive

Passive Voltage, 5mm ELDITEST GE Series

SMD circuit technology provides low input capacitance and fast rise-times to the GE family of voltage probes. A wide compensation range allows use with oscilloscopes from all major manufacturers. The probes carry the ELDITEST brand name recognized internationally for quality and performance.

- Bandwidths to 500 MHz
- Fixed and switched attenuations
- Wide compensation ranges
- Selected models with readout actuators (sense pins)
- IEC 61010-031 rated
- Full accessories included
- RoHS (2011/65/EU) compliant



Fixed - 600 V Rated

Model	GE1501	GE2501	GE1511	GE1511RA	GE2511	GE2511RA	GE4511RA
Bandwidth	30 MHz	55 MHz	150	MHz	250	MHz	500 MHz
Attenuation	1	х			10x		
Input Impedance	11	1 ΜΩ 10 ΜΩ					
Input Capacitance	45	45 pF 12 pF			10 pF		
Output Impedance	1 ΜΩ						
Risetime	11 ns 6.4 ns 2.3 ns		1.4	ns	0.7 ns		
IEC Rating	300 V CAT II						
Compensation	No 10–30 pF			6–22 pF			
Cable Length	1.2 m						
Readout Actuator	No Yes No Yes			es			

Accessory				Kit Contains			
Sprung Hook	1	1	1	1	1	1	1
GND Lead w/Alligator Clip	1	1	1	1	1	1	1
BNC Adapter	1	1	1	1	1	1	1
Replacement Tip	1	1	1	1	1	1	1
Probe Tip Ground		1	1	1	1	1	1
Trimmer Tool			1	1	1	1	1
IC Tip Insulator	1	1	1	1	1	1	1
Tip Insulator	1	1	1	1	1	1	1
Identifier Rings	1	1	1	1	1	1	1

Switchable - 600 V Rated

Model	GE1521	GE1521SA	GE2521			
Bandwidth	17/15	25/250 MHz				
Attenuation		1x/10x				
Input Impedance		1/10 MΩ				
Input Capacitance		45/12 pF				
Output Impedance	1 ΜΩ					
Risetime	20/2	14/1.4 ns				
IEC Rating	300 V CAT II					
Compensation	10-30 pF					
Cable Length	1.2 m					
Readout Actuator	No					
Insulated BNC	No Yes No					

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Passive

Passive Voltage, 5mm ELDITEST GE Series

The GE family includes a unique offering of high voltage passive probes at 2,000 and 4,000 volts. Higher then most 100x probes, selected units offer accuracies of 0.5 ppm/V or 1%.

- Bandwidths to 200 MHz
- Low input capacitances
- High accuracy models
- IEC 61010-031 rated
- Full accessories included
- RoHS (2011/65/EU) compliant



Fixed - 2,000 V Rated

Model	GE3125	GE3121	GE3225	GE3231	
Bandwidth	150 MHz		200 MHz		
Attenuation		10	0x		
Input Impedance		100 ΜΩ			
Input Capacitance		5 pf			
Output Impedance		1 ΜΩ			
Risetime	2.3 ns		1.8 ns		
IEC Rating		2,000 V CAT 0			
Compensation	10-30 pF				
Cable Length	1.2 m				
Readout Actuator	No				
Voltage Coefficient (VCR)	0.5 ppm/V (1%)	≤30 ppm/V (6%)	0.5 ppm/V (1%)	≤30 ppm/V (6%)	

Accessory		Kit Co	ntains	
Sprung Hook	1	1	1	1
GND Lead w/Alligator Clip	1	1	1	1
HV Replacement Tip	1	1	1	1
Trimmer Tool	1	1	1	1
IC Tip Insulator	1	1	1	1
Identifier Rings	1	1	1	1

Fixed - 4,000 V Rated

· · · · · · · · · · · · · · · · · · ·				
Model	GE3425	GE3421		
Bandwidth	100 MHz			
Attenuation	100x			
Input Impedance	100 ΜΩ			
Input Capacitance	5 pf			
Output Impedance	1 ΜΩ			
Risetime	3.5 ns			
IEC Rating	4,000 V CAT 0			
Compensation	10-30 pF			
Cable Length	1.2 m			
Readout Actuator	No			
Voltage Coefficient (VCR)	0.5 ppm/V (1%)	≤30 ppm/V (6%)		

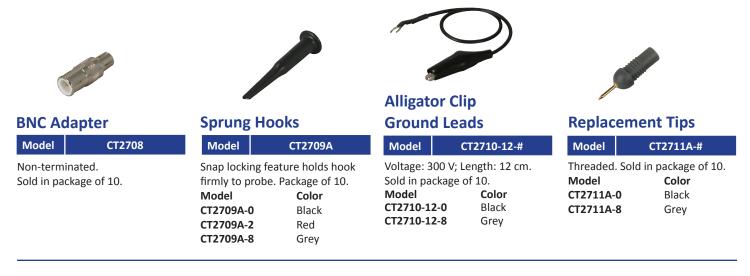
Each Kit Contai	ns
Sprung Hook	1
GND Lead w/Alligator Clip	1
HV Replacement Tip	1
Trimmer Tool	1
IC Tip Insulator	1
Identifier Rings	1



Passive & Accessories

5mm Oscilloscope Probe Accessories

• RoHS (2011/65/EU) compliant.









Tip Insulators

Model	CT2712A-#				
This cover is compatible with					
most 5 mm scope probes.					
Sold in package of 10.					
Model	Color				
CT2712A-	0 Black				
CT2712A-8 Grey					



Grey

CT2713A-8



Moves ground point close to the tip for best signal. Sold in package of 10.

CT2714



Trimmer Tool

Model	CT2715

Sold in package of 10.



CT2838A

Accessory Kit

Model

9-piece kit. Excellent for getting started; also as replacement for worn or lost original devices. **Kit includes:**

NIC	menuues.
(1)	BNC Adaptor

- (1) Replacement Tip
- (1) IC Lead Tip Insulator
- (1) Trimmer Tool
- (1) Sprung Hook
 (1) Tip Insulator
 (1) Tip Ground
 (2) Identifier Rings



Tip Ground Kit

Model	СТ3668		
4-piece kit. Gold plated.			
Kit includ	es:		
(1) Probe	1) Probe Tip Ground, 2.5 mm (0.1") Reach		
(1) Probe	pe Tip Ground, 5 mm (0.2") Reach		
(1) Probe	obe Tip Ground, 7.5 mm (0.3") Reach		
(1) Probe	1) Probe Tip Ground, 10 mm (0.4") Reach		
RoHS (201	oHS (2011/65/EU) compliant		
Sold in pa	ckage of 1		

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Passive & Accessories

5mm Oscilloscope Probe Accessories (continued)



Ground Lead Model CT3669-15-8

Ground lead for 5 mm probes with 0.6 mm pin jack, 15 cm (6") Grey (Gold C-Clip). Sold in package of 10. Model Color CT3669-15-8 Grey



Twin lead AdapterModelCT3679

Twin lead adapter with two SMT test clips. Use with cover shell. Sold in package of 1.



Deluxe Trimmer Tool

Model CT3648

Sold in package of 10.



Identifier Rings

Model	СТ3662
(5 colors x	king clips, 10 pieces 2 each). ckage of 10.



High Voltage Replacement Tip

Model	СТ3823-0				
For 2 kV and 4 kV Elditest 5 mm					
scope probes. Threaded.					
Sold in package of 10.					
Model Color					
CT3823-0	Black				

Current



AC/DC

Clamp-On Current Probes ELDITEST Brand

ELDITEST current probes extend the functionality of general purpose oscilloscopes. These active probes feature dual-range selection, over-range indicator, and battery power (battery not included) for portable applications. The included power adapter is available for either North American (120 V 60 Hz) or European (230 V 50 Hz) mains.

- Current ranges: 40, 50, 70 & 100 A
- Bandwidths 300 kHz, 500 kHz, 1 MHz & 1.5 MHz
- Dual sensitivity ranges
- Over-range indicator
- Adapter (included) or battery powered
- Full accessories included
- RoHS (2011/65/EU) compliant

• Kits include:

- (1) Current probe
- (1) Insulated BNC cable
- (1) BNC to banana plug adapter
- (1) AC adapter
- (1) User manual

*Model	CP6220-NA	CP6550-NA	СР6770-NA	CP6990-NA	
	CP6220-EU	CP6550-EU	CP6770-EU	CP6990-EU	
Measurement Ranges	100 mV/A / 10 mV/A	200 mV/A / 20 mV/A	500 mV/A / 50 mV/A	1 V/A / 100 mV/A	
Current (DC + peak AC)	10 A / 100 A	5 A / 50 A	7 A / 70 A	4 A / 40 A	
DC Measurement Accuracy	±3% ±50 mA @ 100 mV/A (50 mA to 10 A peak) ±4% ±50 mA @ 10 mV/A (500 mA to 40 A peak) ±15% max @ 10 mV/A (40 A peak to 100 A peak)	±3% ±30 mA @ 200 mV/A (30 mA to 5 A peak) ±4% ±300 mA @ 20 mV/A (300 mA to 20 A peak) ±15% max @ 200 mV/A (20 A peak to 50 A peak)	±3% ±20 mA @ 500 mV/A (20 mA to 14 A peak) ±4% ±200 mA @ 50 mV/A (200 mA to 100 A peak) ±15% max @ 50 mV/A (100 A peak to 140 A peak)	±3% ±10 mA @ 1 V/A (10 mA to 8 A peak) ±4% ±100 mA @ 100 mV/A (100 mA to 80 A peak)	
Bandwidth	DC - 300 kHz	DC - 500 kHz	DC - 1 MHz	DC - 1.5 MHz	
Rise and Fall Time	1.2 μs (typ.) 0.7 μs (typ.)		0.35 µs (typ.)	0.23 µs (typ.)	
Max Working/ Floating Voltage	600 VAC RMS CAT II 300 VAC RMS CAT III				
Battery Life	8 hours		6 hours	4 hours	
Max Cable Diameter	11 mm	ı (.43")	10.3 mm (.40")		
Dimensions	262 x 79 x 36 mm (10.3" x 3.15" x 1.4")		262 x 81 x 36 mm (10.3" x 3.2" x 1.4")		
Weight	260 g w/	o battery	310 g w/o battery		

* Suffix for Power Adapter: - NA North American style plugs

– EU European style plugs

Current & Accessories

AC/DC Current Probe Accessories

Can be used with Elditest clamp-on current probe models: CP6220-NA, CP6550-NA, CP6770-NA, CP6990-NA CP6220-EU, CP6550-EU, CP6770-EU, CP6990-EU

BNC to Banana Plug

Adapter

Model



Model CT3956 is an insulated BNC female to sheath banana plug

CT3956

adapter. Sold in package of 5. Features:

- Voltage Max: 500 Vrms
- Current Max: 3 A
- Impedance: 50 Ω
- Temperature: 0° to +50° C
- RoHS (2011/65/EU) compliant





Model CT3955 is a high quality BNC male to male coaxial insulated cable assembly. Molded bend relief boot. Sold in package of 5.

Features:

- Connector Grade: general purpose
- Impedance: 50 Ω
- Frequency range: DC to 1 GHz
- \bullet VSWR Max: 1.2:1 DC to 1 GHz
- Cable Type: RG-58C/U
- Length: 100 cm
- RoHS (2011/65/EU) compliant

Model	СТ3957-NA	CT3957-EU	
Mains Plug Style	North American	European	
Input Power	120 VAC 60 Hz	230 VAC 50 Hz	
Output Power	9 VDC 300 mA		
Output Plug	2.1 mm x 5.5 mm, Center Pin Negative		
UL Listed	Yes		
Use with Models	CP6220-NA; CP6550-NA; CP6770-NA; CP6990-NA; CT4068-NA; CT4076-NA; CT4078-NA; CT4079-NA	CP6220-EU; CP6550-EU; CP6770-EU; CP6990-EU; CT4068-EU; CT4076-EU; CT4078-EU; CT4079-EU	



Power Adapters for AC/DC Current Probes

• RoHS (2011/65/EU) compliant



Digital Multimeter Probes

Cal Test Electronics offers one of the most extensive lines of DMM probes. In this section you will find the most widely used probes with leads, probe bodies, fused probes, plus the accessories for all your testing needs.

Probes with Leads	25-26
RF & High Voltage Probes	26
Probe Bodies	27-28
Probe Accessories	29
3900 Series Probes	30-31
Fused Probes	. 32-33



How to Order	Colo	r (-#)
СТ3984-120-#	-0 Black	-2 Red

w/Snap Lock

300 V CAT II

1,000 V CAT III

Accessory

Probes with Leads and RF & High Voltage





DMM Probes with Leads Straight Connector

Probes feature 4 mm straight sheath banana plug connectors, usable with all major brands of digital multimeters.

- IEC 61010-031 rated
- Silicone lead wires
- RoHS (2011/65/EU) compliant
- See page 30 for additional CT3900 series tip accessories

Model	СТ3982-120	CT3981-120	CT3980-120-#
Туре	Se	et	Individual
Tip Diameter x Length	2 n	nm (.080") x 19 mm (.7	5")
Connector	Straigh	nt, 4 mm Sheath, Banar	na Plug
IEC Rating	1,000 V CAT III	/ 600 V CAT IV w/cap, (CAT II w/o cap)
Current Max	10 A		
Jacket Material	Silicone		
Wire Gauge, AWG	18		
Stranding (# x Diam.)	168 x 0.07 mm		
Cable OD, mm (in) x Length	3.7 mm (.146") x 120 cm		
Color	Black & Red		See How to Order
Quantity / Pkg	1 Pair		10
Accessory	Sprung Hooks w/Snap Lock 300 V CAT II		

How to Order	Color (-#)		
СТ3980-120-#	-0 Black	-2 Red	



900 MHz RF DMM Probe

This probe allows a DMM to measure sine-wave AC signals up to 900 MHz with an accuracy of ± 2.0 dB. Slim styled body for easy handling. Output is through 4 mm sheath banana plugs.

CT2666A

100 kHz-900 MHz

8 pF

100 V

±2.0 dB

0.35 V

- Conversion factor: 1 Veff = 1 VDC on meter
- Accessory kit included
- RoHS (2011/65/EU) compliant

Model



40 kV High Voltage DMM Probe

The CT2700 High Voltage DMM Probe allows a standard DMM to measure voltages up to 40 kV or 28 kV AC. With a divider ratio of 1,000:1. Output is through 4 mm sheath banana plugs.

- Meets IEC 61010-031 rated: CAT II P2
- RoHS (2011/65/EU) compliant

Model	CT2700	
Input Impedance	1 kΩ	
Voltage Max	40 kV / 28 kV	
Accuracy	±2 % (+1 % to 20 kV AC)	
Temp. Coff., ppm/deg C	200 ppm/deg C	
Meter Impedance	10 MΩ Min.	

Bandwidth

Voltage Max

Max HF Voltage

Accuracy

Input Capacitance

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CT2268



DMM 4mm Banana Plug Probe Bodies

General purpose test probe bodies with 4 mm banana plug contacts on tips. Model CT2268 features exchangeable 2 mm tips.

- IEC 61010-031 rated
- Connector 4 mm banana jack
- RoHS (2011/65/EU) compliant

Model	CT2483	CT2265-#	СТ3776	СТ3775-#	CT2268
Туре	Set	Individual	Set	Individual	Set
Тір Туре	4 mm Banana				4 mm Banana / 2 mm Smooth
IEC Rating	1,000 V CAT III w/cap, (CAT II w/o cap)		1,000 V CAT II		1,000 V CAT III w/cap, (CAT II w/o cap)
Current Max	36 A		10 A		36 A
Body Style	Standard		Com	pact	Standard
Body Length	3.8" (96 mm)		2.9" (7	4 mm)	3.8" (96 mm)
Color	Black & Red	See How to Order	Black & Red	See How to Order	Black & Red
Quantity / Pkg	1 Pair	10	1 Pair	10	1 Pair

How to Order	Color (-#)		
CT2265-#	-0 Black -2 Red		
СТ3775-#	-0 Black	-2 Red	

Model	СТ2664 СТ2576-#			
Туре	Set Individual			
Hooks to Wires	Up to .140" Diameter			
Connector	Fits Probe with 4 mm Banana Plug			
IEC Rating	30 VAC / 60 VDC			
Current Max	5 A			
Color	Black & Red See How to Orc			
Quantity / Package	1 pair	10		

How to Order	Color (-#)		
CT2576-#	-0 Black -2 Red		



Sprung Hooks

.12 (3)

Intended for probes with 4 mm banana plug contacts. Adds the convenience of hook connection to your probes.

• IEC 61010-031 rated

• RoHS (2011/65/EU) compliant

Probe Bodies



DMM Fine & Extra Fine Tip Probe Bodies

Models CT2662 / CT2264-# are our highest category rated probes; 1,000 V CAT IV. Models CT2662 / CT2388-# feature spring-loaded tips for fine contact probing.

- IEC 61010-031 rated
- Connector is 4 mm banana jack
- Probes come with clear, removable IC Cap
- RoHS (2011/65/EU) compliant

Model	СТ2662 СТ2264-#		CT2665	CT2388-#	
Туре	Set	Individual	Set	Individual	
Tip Style	Fi	ne	Extra Fine, Spring-Loaded		
Body Style (Size)	Slim	Line	Miniature		
IEC Rating	1,000 V	′ CAT IV	600 V CAT II		
Current Max	16	βA	1	A	
Body Length	5.4" (136 mm)		3.2" (81 mm)		
Color	Black & Red See How to Order		Black & Red	See How to Order	
Quantity / Pkg	1 Pair	10	1 Pair	10	



CT2665

How to Order	Color (-#)			
CT2264-#	-0 Black -2 Red			
CT2388-#	-0 Black	-2 Red		

DMM 2mm Probe Bodies

General purpose test probe bodies with 2 mm (.080") diameter pin tips

- IEC 61010-031 rated
- Connector is 4 mm banana jack
- Tip fits North American blade contact power sockets
- RoHS (2011/65/EU) compliant

СТ2988	CT2266-#			
Set	Individual			
2 mm (.080") x 19 mm (.75")				
1,000 V CAT II				
36 A				
Standard				
3.8″ (96 mm)				
Black & Red	See How to Order			
1 Pair	10			
	Set 2 mm (.080") > 1,000 \ 36 Stan 3.8" (9 Black & Red			

How to Order	Color (-#)		
СТ2266-#	-0 Black -2 Red		





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Probe Accessories



Spade Lugs, Splices & Banana Plug Adapters

- IEC 61010-031 rated
- RoHS (2011/65/EU) compliant

Model	CT2661	CT2553-#	СТ2663	CT2248-#	СТ3089	CT2473-#
Туре	Set	Individual	Set	Individual	Set	Individual
Adapter	Spade Lug Adapter Insulated Splice		Banana Plug Adapter			
Connector	6/4 mm Lug to4 mm Sheath Banana Jack to4 mm Sheath Banana Jack4 mm Sheath Banana Jack		4 mm Banana Plug to 4 mm Sheath Banana Jack			
Accepts	Accepts 4 mm Sheath Banana Plug Accepts Two 4 mm Sheath Banana		Sheath Banana Plug	Accepts 4 mm Sheath Banana Plug		
IEC Rating	30 VAC / 60 VDC		1,000 V CAT III		30 VAC ,	/ 60 VDC
Current Max	36 A			10) A	
Color	Black & Red	See How to Order	Black & Red	See How to Order	Black & Red	See How to Order
Quantity / Package	1 pair	10	1 pair	10	1 pair	10

How to Order	Color (-#)					
СТ2553-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White
CT2248-#	-0 Black	-2 Red				
CT2473-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White



Tri-Fold Accessory Pouch

CT3041

- Model
 Size:
- 7"W x 5"H closed
- 7"W x 16"H open
- 3 hook & loop locked 6"W x 3"H pockets w/clear viewing panel.
- Nylon, black

3900 Series Probes & Tip Accessories



DMM 2mm Probe Bodies

Cal Test's CT3900 series DMM probes provides performance and safety with a unique selection of tip adapters. Each adapter snap-locks to the probe for secure and safe usage, which extends the utility of the probe. • IEC 61010-031 rated

CT3941

CT3940-2

.12 (3)

- Connector is 4 mm banana jack
- Tip fits North American blade contact power sockets
- RoHS (2011/65/EU) compliant

Extended Tip Probe Adapters

- Snap-locks to probe bodies
- 4.25" stainless steel tip
- Clear Kynar[®] sleeve insulation
- RoHS (2011/65/EU) compliant

Model	СТ3941 СТ3940-#			
Туре	Set Individual			
Voltage	300 V CAT II			
Current	3 A			
Color	Black & Red	See How to Order		
Qty / Pkg	1 Pair 5			

How to Order	Color (-#)			
СТ3940-#	-0 Black -2 Red			

Sprung Hook Probe Adapters

- Snap-locks to probe bodies
- Hooks onto wires and terminals
- Brass, nickel plated
- RoHS (2011/65/EU) compliant

Model	СТЗ947 СТЗ946-#			
Туре	Set	Individual		
Voltage	300 V CAT II			
Current	3 A			
Color	Black & Red	See How to Order		
Qty / Pkg	1 Pair	5		

CT3947

How to Order	Color (-#)		How to Order	Color (-#)	
СТ3946-#	-0 Black	-2 Red	СТ3944-#	-0 Black	-2 Red

CT3946-2

Model	СТ3975	СТ3974-#
Туре	Set	Individual
Tip Diameter x Length	2 mm (.080″) x 19 mm (.75″)	
IEC Rating	1,000 V CAT III / 600 V CAT IV w/cap, (CAT II w/o cap)	
Current Max	10 A	
Body Length	2.96" (75 mm)	
Color	Black & Red	See How to Order
Quantity / Pkg	1 Pair	10

How to Order	Color (-#)	
СТ3974-#	-0 Black	-2 Red

Alligator Clip Probe Adapters



Standard alligator clip, steel, nickel plated
Flexible insulating rubber boot

• Snap-locks to probe bodies

• RoHS (2011/65/EU) compliant

Model	СТ3943	СТ3942-#
Туре	Set	Individual
Voltage	300 V CAT II	
Current	5 A	
Color	Black & Red See How to Order	
Qty / Pkg	1 Pair	5

How to Order	Color (-#)	
СТ3942-#	-0 Black	-2 Red

Spade Lug Probe Adapters

- Snap-locks to probe bodies
- Spade lug for #6 & #4 studs
- Brass, nickel plated
 RoHS (2011/65/EU) compliant



Model	СТЗ945 СТЗ944-#	
Туре	Set Individual	
Voltage	<30 VAC / <60 VDC	
Current	5 A	
Color	Black & Red See How to Order	
Qty / Pkg	1 Pair 5	

30

caltestelectronics.com

3900 Series Probes & Tip Accessories



Complete Kit of Probe Adapter Pairs

Model CT3948

Snap-locks to probe bodies

- 4 styles of adapters
- Convenient black and red pairs
- Packaged in polybag
- RoHS (2011/65/EU) compliant

Kit Contains	
 (2) Extended Tips, (1) Black, (1) Red - (CT3941) (2) Alligator Clips, (1) Black, (1) Red - (CT3943) (2) Spade Lugs, (1) Black, (1) Red - (CT3945) (2) Sprung Hooks, (1) Black, (1) Red - (CT3947) 	
Rating	
Extended Tips 300 V CAT II, 3 A	
Alligator Clips 300 V CAT II, 5 A	
Spade Lugs <30 VAC / <60 VDC, 5 A	
Sprung Hooks	300 V CAT II, 3 A



Probe Bodies with Fixed Tip with Safety Cap + Spring Hooks

Model

- Standard 2 mm x 19 mm probe tips
- Sprung hooks snap-lock to probe bodies
- Probe bodies accept 4 mm sheath banana plugs
- Cap on probe tip provides CAT III / CAT IV rating

CT3976

- Convenient black and red pairs
- RoHS (2011/65/EU) compliant

Kit Contains	
(2) Probe Bodies, (1) Black, (1) Red - (CT3975) (2) Sprung Hooks, (1) Black, (1) Red - (CT3947)	
Rating	
Probe Bodies	1,000 V CAT III / 600 V CAT IV w/cap, (CAT II w/o), 10 A
Sprung Hooks	300 V CAT II, 3 A



CT3978

Model

- Probe bodies accept 4 mm sheath banana plugs
- Cap on probe tip provides CAT III / CAT IV rating
- Standard 2 mm x 19 mm probe tips
- All accessories snap-lock to probe bodies
- Convenient black and red pairs
- RoHS (2011/65/EU) compliant

Kit Contains	
 (2) Probe Bodies, (1) Black, (1) Red - (CT3975) (2) Sprung Hooks, (1) Black, (1) Red - (CT3947) (2) Alligator Clips, (1) Black, (1) Red - (CT3943) (2) Spade Lugs, (1) Black, (1) Red - (CT3945) (2) Extended Tips, (1) Black, (1) Red - (CT3941) 	
Rating	
Probe Bodies	1,000 V CAT III / 600 V CAT IV w/cap, (CAT II w/o), 10 A
Sprung Hooks	300 V CAT II, 3 A
Alligator Clips	300 V CAT II, 5 A
Spade Lugs	<30 VAC / <60 VDC, 5 A
Extended Tips	300 V CAT II, 3 A

Probe Safety Cap

- Model CT3994-8
- Safety cap snap-locks to probe body
- Allows probes to meet latest safety standards
- Color: grey
- Sold 25/pkg.
- RoHS (2011/65/EU) compliant

Fused Probes



New Fused Probes ELDITEST Brand

The CT399x series fused probes enhance user safety when working in high energy CAT III and CAT IV environments. The replaceable fuse provides fast interrupt in fault conditions. The probes feature a 1 M Ω resistor in parallel with the fuse. Although it is recommended to check for a blown fuse before and after the measurement, if the probe is used with a blown fuse, the parallel resistor will provide a 90% accurate measurement thereby avoiding a "zero" instrument reading when there is a hazardous voltage present.

- IEC 61010-031 rated
- Replaceable 1,000 VAC / VDC, 11 A, 20 kA IR fast-acting fuse
- 1,000 V CAT III / 600 V CAT IV IEC voltage rating w/protective cap
- 4 mm banana plug tip, removable for a 2 mm pin tip for both CT3997 and CT3999

•	Special circuit to prevent hazardous "zero" reading in blown fuse situation
•	RoHS (2011/65/EU) compliant

Model	СТ3999	СТ3997-#
Description	Probe Set	Probe Body
Туре	Set	Individual
Probe Tip Diameter	4 mm Banana Plug Spring Tip; Removable for 2 mm (.080")	
Connector	Right-Angle Sheath 4 mm Banana Plug	4 mm Banana Jack
IEC Rating	1,000 V CAT III / 600 V CAT IV w/ Protective Cap	
Current Max	11 A	
Interrupting Rating	20 kA	
Replacement Fuse	CT3998-11A (Fast Acting)	
Jacket Material	Silicone N/A	
Wire Gauge, AWG	18 N/A	
Stranding (# x Diam.)	168 x 0.07 mm N/A	
Cable OD, mm (in)	3.7 mm (.146") N/A	
Cable Length	150 cm N/A	
Color	Black & Red See How to Order	
Quantity / Pkg	1 Pair	1

How to Order	Color (-#) -0 Black -2 Red	
СТ3997-#		



Replacement Fuses for Fused Probes

- 10 x 38 mm
- For fused probes shown above
- Fast acting ceramic
- RoHS (2011/65/EU) compliant

Model	CT3998-11A
Voltage Max	1,000 V
Current Max	11 A
Interrupting Rating	20 kA
Approvals	UL / CSA
Quantity / Pkg	2

32

DMM Fused Probe Bodies Banana Plug Tip with Spring-Loaded Sheath + Safety Cap

Fused probe bodies enhance user safety when working in high energy CAT III and CAT IV environments. The replaceable fuse provides fast interrupt in fault conditions. The probe bodies feature a replaceable 6 x 32 mm fast-acting ceramic fuse in three current ranges. Tips have 4 mm banana plug contacts with a protective spring-loaded sleeve for a CAT II rating, plus an additional protective cap providing CAT III and IV rating. The probe bodies (4.5" 115 mm long) are available individually or in black and red pairs.

- IEC 61010-031 rated
- Replaceable fast-acting ceramic fuses
- \bullet 1,000 V CAT III / 600 V CAT IV IEC voltage rating w/protective cap
- 4 mm banana plug tip with spring-loaded sleeve
- Connector: sheath 4 mm banana jack
- RoHS (2011/65/EU) compliant

Model	СТ3146	CT3145-#	СТ3210	СТ3209-#	СТ3212	CT3211-#	
Туре	Set	Individual	Set	Individual	Set	Individual	
IEC Rating			1,000 V CAT III w/c	ap, (CAT II w/o cap)			
Voltage (fuse)	60	0 V	66	0 V	1,000 V		
Current Max (fuse)	10) A	500 mA				
Interrupting Rating (fuse)	50	kA	30	kA	50 kA		
Replacement Fuse	СТЗ	194	СТЗ	195	CT3196		
Color	Black & Red	See How to Order	Black & Red	See How to Order	Black & Red	See How to Order	
Quantity / Pkg	1 Pair	5	1 Pair	5	1 Pair	5	

How to Order	Color (-#)				
CT3145-#	-0 Black	-2 Red			
СТ3209-#	-0 Black	-2 Red			
CT3211-#	-0 Black	-2 Red			

Model	СТ3194	СТ3195	CT3196	Replacement Fuses				
Voltage Max	600 V	660 V	1,000 V • 6 x 32 mm					
Current Max	10 A	500 mA		For fused probes shown above				
Interrupting Rating	50 kA	30 kA	50 kA	• Fast acting ceramic	12mm			
Quantity / Pkg		10		 • UL / CSA approved • RoHS (2011/65/EU) compliant 				

Model	СТ3208	CT3189-#	СТ3408	CT3407-#	
Туре	Set	Individual	Set	Individual	
Size	Lai	rge	Extra-Large		
IEC Rating		1,000 V	CAT III		
Current Max	20) A	36 A		
Resistance Max		20 r	mΩ		
Color	Black & Red	See How to Order	Black & Red	See How to Order	
Qty / Package	1 Pair	5	1 Pair	5	

How to Order	Color (-#)				
СТ3189-#	-0 Black	-2 Red			
СТ3407-#	-0 Black	-2 Red			





Alligator Clips for Fused Probes, Insulated

- IEC 61010-031 rated
- With thread for assembly to fused probe bodies
- RoHS (2011/65/EU) compliant



Clips

A complete offering of the most popular electrical and electronic test clips including alligator, miniature alligator, spring (crocodile), plier type, telecom, and Kelvin. This section also includes SMD test clips, MicroClips, MiniFlex, MiniPro and SMD tweezers.

Product tables include cross reference to *Mueller clips.

Alligator	35-39
Spring (Crocodile)	40
Plier Type	40
Telecom	41
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SMD Tweezers	45

* Mueller is the registered trademark of Mueller Electric Co.

Clips



Model	СТМ- 34	CTM- 34C	СТМ- 30	СТМ- 30С	CTM- 30BL	СТМ- 30ТВО	CTM- 60CS	СТМ- 60S	СТМ- 60U	СТМ- 60ТВО	СТМ- 60	СТМ- 60С	СТМ- 60Х
Size	Mi	cro		Mini	ature					Standard			
Max Jaw Opening	.22" (5	.6 mm)		.188" (4	4.8 mm)		.31" (7.9 mm)						
Length	1.1" 1.25" 1.5" (28 mm) (32 mm) (39 mm)			-		1.97" (50 mm)		2.13" (54 mm)		2.23" (57 mm)			
Current Max	5 A									10 A			
Material	Steel, Zinc Plt.	Solid Copper	Steel, Zinc Plt.	Solid Copper		eel, : Plt.	,,		Solid Copper	Stainless Steel			
Barrel		No	one		1/8″ ID	Internally Threaded	4 mm Accepts Std. None Banana Plug		ne	Internally 4 mm Accepts Threaded Std. Banana Plug			
Connec- tion		der rimp		Solder		6-32 UNC	Solder o Plus S	or Crimp Screw	Crimp Slot	6-32 UNC		Solder or Crimp	
Mueller Cross	BU-34	BU-34C	BU-30	BU-30C	BU-30BL	BU- 30TBO	BU-60CS	BU-60S	BU-60U	BU- 60TBO	BU-60	BU-60C	BU-60X
Use Insul. Boot	СТМ	Л-36	CTM	1-32	CTN	И-31	CTM-62						
Qty / Pkg	100					50							

Insulating Boots



• RoHS (2011/65/EU) compliant

Model	Length	Material	Color	Fit these Clips	Mueller Cross	Quantity / Package
CTM-62-#	2.03" (52 mm)	PVC	See How to Order	CTM-60, -60C, -60CS, -60PR2, -60S, -60TBO, -60U, and -60X	BU-62-*	100

How to order		Colors (-#)					
CTM-62-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White	

Clips

Alligator

Model	CTM-63-#	CTM-63C-#		
Max Jaw Opening	.31" (7	.9 mm)		
Length	2.23" (!	57 mm)		
Current Max	10	0 A		
Material	Steel, Nickel Plt.	Solid Copper		
Insulation	2-Piece I	Flex. PVC		
Mueller Cross	BU-63-*	BU-63C-*		
Color	How to Order			
Qty / Pkg	100			



Insulated

- Accept 4 mm banana plug
- RoHS (2011/65/EU) compliant

How to Order	Color (-#)							
CTM-63-#	-0 Black	-2 Red						
CTM-63C-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White		



Model	CT3810-L	CT3809-L-#	СТ2394
Туре	Set	Kit	
Both Ends		Insulated Alligator Clip	
Alligator Jaws Open to		.31" (7.9 mm)	
Alligator Clip		Steel, Nickel Plt.	
Boot		PVC	
IEC Rating	300 V	CAT II	30 VAC / 60 VDC
Current Max	10	5 A	
Jacket Material	Silic	PVC	
Wire Gauge	18 A	AWG	21 AWG
Stranding (# x Diam.)	168 x 0	.07 mm	104 x 0.07 mm
OD	3.7 mm	ı (.146")	2.0 mm (.079")
Length	See How	to Order	50 cm
Color	Black & Red See How to Order		2 Black, 2 Red, 1 Yellow, 1 Green, 1 Blue, 1 White
Qty / Pkg	1 Pair	10	8-piece Kit

How to Order			
CT3809-L-#	Length cm (-L)		
	-30	-60	-100
	Color (-#)		
	-0 Black	-2 Red	
CT3810-L	Length cm (-L)		
	-30	-60	-100

Clips

Alligator



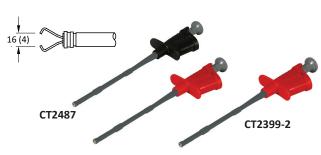
Fully Insulated

- IEC 61010-031 rated
- RoHS (2011/65/EU) compliant

Model	CTM-652-#	CTM-65-#	CT2490A	CT2392A-#	СТ3286	CT3251-#	СТ3438-#	СТ3449	CT3441-#
Connector		4 mm Sheath Banana Jack				8-32 UNC Internal Thread, IP2X Finger Safe			
Туре	Indiv	idual	Set	Individual	Set	Individual	Individual	Set	Individual
Size	Small		Large		Extra Large		Large	Extra	Large
Max Jaw Opening	.27" (7 mm)	.75" (19 mm)	-	.96" (25 mm)		26" mm)	.96" (25 mm)	1.2 (32	26″ mm)
Length	3.2 ر 82 ا		3.58" (91 mm)		3.62″ (92 mm)		3.58″ (91 mm)	4.33" (110 mm)	
IEC Rating	1,000 V CAT III / 600 V CAT IV	1,000 V / CAT III		1,000 V CAT III / 600 V CAT IV				~ 	
Current Max	20 A	30 A	20	A	36	δA	20 A	36	A
Mueller Cross	BU-652-*	BU-65-*							
Color	See How	to order	Black & Red See How to order		Black & Red	See How to order	See How to order	Black & Red	See How to order
Qty / Pkg	1	0	1 Pair	10	1 Pair	10	10	1 Pair	5

How to Order					Color (-#)				
CTM-652-#	-0 Black		-2 Red						
CTM-65-#	-0 Black		-2 Red						
CT2392A-#	-0 Black	-1 Brown	-2 Red	-4 Yellow	-5 Green	-6 Blue			-9 White
СТ3251-#	-0 Black	-1 Brown	-2 Red	-4 Yellow	-5 Green	-6 Blue	-8 Grey	-7 Violet	-9 White
СТ3438-#	-0 Black		-2 Red						
СТ3441-#	-0 Black		-2 Red						

Pincer, Hook & Alligator



Pincer Style Clips, Flexible

Pincer can be rotated for easy connection, and flexible shaft is bendable to 90 degrees.

- IEC 61010-031 rated
- Fully insulated
- RoHS (2011/65/EU) compliant

Model	CT2487	СТ2399-#	
Туре	Set	Individual	
Interconnect	4 mm Sheath	Banana Jack	
IEC Rating	1,000	/ CAT II	
Current Max	6 A		
Grasps Terminal Diameter up to	4 mm (.16")		
Body Insulation	Polyamide (Nylon) and Santoprene		
Contacts	Brass, Nickel Plated		
Color	Black & Red	See How to Order	
Length	6"		
Quantity / Pkg	1 Pair 10		

How to Order	Color (-#)	
СТ2399-#	-0 Black -2 Red	



Hook Style Clips, Flexible

Pincer can be rotated for easy connection, and flexible shaft is bendable to 90 degrees.

- IEC 61010-031 rated
- Fully insulated
- RoHS (2011/65/EU) compliant

Model	СТ2489	CT2401-#	
Туре	Set	Individual	
Interconnect	4 mm Sheath	Banana Jack	
IEC Rating	1,000 \	/ CAT II	
Current Max	6 A		
Grasps Terminal Diameter up to	5 mm (.20″)		
Body Insulation	Polyamide (Nylon) and Santoprene		
Contacts	Brass, Nic	kel Plated	
Color	Black & Red See How to Order		
Length	6"		
Quantity / Pkg	1 Pair 10		

How to Order	Color (-#)		
CT2401-#	-0 Black	-2 Red	

Clips

Pincer, Hook & Alligator

Model	СТ2488	СТ2400-#	
Туре	Set	Individual	
Interconnect	4 mm Sheath	n Banana Jack	
IEC Rating	1,000 \	/ CAT III	
Current Max	6 A		
Grasps Terminal Diameter up to	12.7 mm (.50")		
Body Insulation	Polyamide (Nylon) and Santoprene		
Contacts	Brass, Nickel Plated		
Color	Black & Red See How to Order		
Length	6″		
Quantity / Pkg	1 Pair 10		

How to Order	Color (-#)	
CT2400-#	-0 Black	-2 Red

Model	СТ2966	СТ2965-#		
Туре	Set	Individual		
Interconnect	4 mm Sheath	i Banana Jack		
IEC Rating	1,000 \	/ CAT III		
Current Max	20 A			
Grasps Terminal Diameter up to	12.7 mm (.50")			
Body Insulation	Polyamide (Nylon)			
Contacts	Brass, Nic	kel Plated		
Color	Black & Red See How to Order			
Length	6"			
Quantity / Pkg	1 Pair	5		

How to Order	Color (-#)		
CT2965-#	-0 Black	-2 Red	



Alligator Style Clips Rigid

Rigid housing allow increased current capacity. Insulation on jaw contacts protects against shorting.

- IEC 61010-031 rated
- Fully insulated
- Ideal for high current applications
- RoHS (2011/65/EU) compliant

Model	CT3762	CT3761-#	СТ3760	СТ3759-#	СТ3756	СТ3755-#
Туре	Set	Individual	Set	Individual	Set	Individual
Interconnect	4 mm Banana Jack		2 mm Ba	nana Jack	8-32 UNC Int	ernal Thread
IEC Rating		300V CAT II, 10 A				
Jaw Opens to	7.9 mm (.31″)					
Body Insulation	PVC					
Contacts	Steel, Nickel Plated					
Color	Black & Red	See How to Order	Black & Red	See How to Order	Black & Red	See How to Order
Quantity / Pkg	1 Pair	10	1 Pair	10	1 Pair	10

How to Order	Colo	r (-#)
CT3761-#	-0 Black	-2 Red
СТ3759-#	-0 Black	-2 Red
СТ3755-#	-0 Black	-2 Red





CT2965-2

Alligator Clips Standard Jaw

- IEC 61010-031 rated
- Fully insulated
- Standard jaw
- RoHS (2011/65/EU) compliant

Clips

Spring & Plier Type





• RoHS (2011/65/EU) compliant

	Model	CTM-27	CTM-25	CTM-21APN	CTM-21CPN	
	Style	Auton	notive	Heavy Duty		
CTM-25	Туре	General Purpose	Teeth on all 3 Sides of Jaw	Shui	nted	
	Max Jaw Opening	.625" (16 mm)	.75" (19 mm)	1.06" (2	27 mm)	
	Length	2.44" (62 mm)	3" (76.2 mm)	4.11" (1	4 mm)	
	Current Max	20 A	40 A	50 A	100 A	
CTM-21APN	Material		Steel, Zinc Plt.		Solid Copper	
	Marking					
	Connection		Crimp or Screw		Solder Lug	
° F	Mueller Cross	BU-27	BU-25	BU-21APN	BU-21CPN	
	Use Insul. Boot	CTM-29	CTM-26	CTN	1-23	
CTM-21CPN	Quantity / Package	5	0	25	10	

CTM-23-2

CTM-29-6

CTM-26-0

Spring Clip (Crocodile) Insulating Boots



• RoHS (2011/65/EU) compliant

Model	Туре	Length	Color	Fit these Clips	Mueller Cross	Quantity / Package
CTM-23-#	Heavy Duty	5" (127 mm)	See How to Order	CTM-21A, CTM-21C	BU-23-*	25
CTM-26-#	Automotive	3.88" (98 mm)	See How to Order	CTM-24A, CTM-25, CTM-25C	BU-26-*	50
СТМ-29-#	Geophone	3.5" (89 mm)	See How to Order	CTM-27, CTM-27C CTM-27CG, CTM-27CGW	BU-29-*	50

How to Order	Colors (-#)						
CTM-23-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White	
CTM-26-#	-0 Black	-2 Red					
CTM-29-#	-0 Black	-2 Red					



Miniature Plier Type Clips

Plier type clips utilized by the automotive industry for battery chargers, timing lights, jumper cables, and smaller applications.

- Partially insulated
- RoHS (2011/65/EU) compliant

Model	CTM-46A-#
Used For	Battery Work
Max Jaw Opening	1.125" (29 mm)
Length	2.88" (98 mm)
Current Max	50 A
Material	Steel, Copper Plt.
Connection	Solder or Crimp
Mueller Cross	BU-46A-*
Color	See How to Order
Qty / Pkg	50

How to Order	Color (-#)				
CTM-46A-#	-0 Black	-2 Red			

40

Telecom & Kelvin

and the second second	

Telecom Clip

- Screw and washer connection included
- RoHS (2011/65/EU) compliant



Telecom Clip Insulators

- High quality PVC. Durable and flexible.
- RoHS (2011/65/EU) compliant

Model	Length	Material	Color	Fit these Clips*	Mueller Cross	Qty / Pkg
CTM-8681-#	2.4" (61 mm)	PVC	See How to Order	See below	JP-8681-*	100

Jaws

Open up to

1″

(25.4 mm)

Material

Nickel

Silver

* Fits these Clips: CTM-25, CTM-8078, CTM-8099, CTM-8783, CTM-33674 & CTM-33699

How to Order	Color (-#)			
CTM-8681-#	-0 Black	-2 Red		

Type and

Insulation Piercing

Angle Nose

w/Bed of

Nails and

Single Spike

Model

CTM-8783

Kelvin Clips

Kelvin Clips are used to perform four-terminal sensing and are also known as Kelvin sensing. This 4-wire sensing, or 4-point probe method, is an electrical impedance measuring technique that uses separate pairs of current-carrying and voltagesensing electrodes to make more accurate measurements than traditional two-terminal (2T) sensing. A Kelvin Clip, is often a crocodile clip, that connects a force-and-sense pair when it closes onto a conductor.



Mueller

Cross

JP-8783

Length

2.61"

(66 mm)

Qty / Pkg

10

Kelvin Clip with Isolated Jaws

Model

Metrology grade Kelvin clip features a current path for the source and a circuit path for the sense.

СТМ-78К

Features:

- Material: brass, gold plated
- Jaws open to .50" (12.7 mm)
- Length: 2.28" (58 mm)
- Current max: 10 A
- RoHS (2011/65/EU) compliant
- Mueller cross: BU-78K
- Sold in package of 1



Small Insulated Kelvin Clip with Isolated Jaws

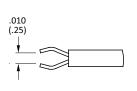
CTM-75K

Model Features:

- Material: nickel silver, gold tips; nylon
- Jaws open to .31" (7.9 mm)
- Length: 1.625" (41 mm)
- Screw wire connection
- Current max: 10 A
- RoHS (2011/65/EU) compliant
- Mueller cross: BU-75K
- Sold in package of 10

Clips

SMD Clips







CT3100

Set

CT2845-#

Individual

СТ2846-10-2

30 VAC / 60 VDC

MicroClip Test Clips

- IEC 61010-031 rated
- Access ICs down to 0.20 mm wide on a 0.45 mm pitch
 Steel pincers open up to .024" (0.6 mm) can be rotated by hand to desired attachment position
- Interconnection pin .031" (0.8 mm)
- Use with MicroLead test leads
- Material: polyamide (Nylon) with stainless steel contacts
- RoHS (2011/65/EU) compliant

	Current Max	0.	5 A
	Color	Black & Red	See How to Order
contacts	Qty / Pkg	1 Pair	10

How to Order	Color (-#)					
СТ2845-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White

Model

Type

IEC Rating

MicroClip Test Clip Holding Rod

	Ju				
Model	CT2847		5		
clips together v	ling rod to group MicroTest vhen stacked side-by-side. 55/EU) compliant	СТ	2847		
MicroLead	l Test Leads				
 Highly flexible Wire gauge: 2 Conductor ar Stranding: 7 % Material: bra Length: 10 cm 	on (pin or jack) .031" (0.8 mm e silicone jacketed 24 AWG; OD: 1.4 mm (.055") ea: 0.22 mm ² < 0.20 mm ss, gold plt.	CT2870-10-5		СТ3099	CT2887-10-2
Model	CT2870-10-#	СТ3099	CT2887-10-#	CT2846-10-#	

Model	CT2870-10-#	СТ3099	CT2887-10-#	CT2846-10-#	
Туре	Individual	Set Individual			
One End		MicroLead female Jack	MicroLead female Jack MicroLead		
Other End	MicroLead female Jack	4 mm Sheath	4 mm Sheath Banana Jack M		
IEC Rating	30 VAC / 60 VDC				
Current Max	2 A				
Color	See How to Order	Black & Red	See How to Order		
Qty / Pkg	10	1 Pair 10			

How to Order	Color (-#)							
CT2870-10-#	-0 Black -2 Red							
СТ2887-10-#	-0 Black	-2 Red						
CT2846-10-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White		

Clips

SMD Clips





CT2848-8

MicroClip Test Clip Kits

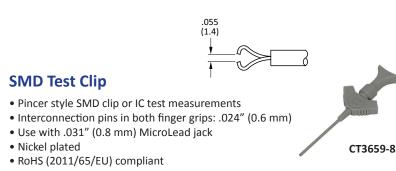
Kits include SMD MicroTest clips, interconnecting MicroLeads (male to female), holding rods, and come complete with plastic storage box.

- Use MicroLeads to interconnect the
- MicroTest clips to an instrument
- IEC 61010-031 rated: 30 VAC / 60 VDC
- Current max: 0.5 A
- RoHS (2011/65/EU) compliant

Model	CT2848-6	CT2848-8	CT2848-12	
SMD MicroTest Clips	6	8	12	
Interconnecting 6 MicroLeads		8	12	
Holding Rods	3	4	6	
Clips and Leads Colors	1 Black, 1 Red, 1 Yellow, 1 Green, 1 Blue & 1 White	2 Black, 2 Red, 1 Yellow, 1 Green, 1 Blue & 1 White	2 Black, 2 Red, 2 Yellow, 2 Green, 2 Blue & 2 White	



CT2848-12



Model	Voltage	Current	Color	Qty / Pkg
СТЗ659-8	30 VAC / 60 VDC	1 A	Grey	10





SMD Clips



SMD MiniFlex Clips

Ideal for surface mount device fine testing. The clip's narrow width, only .12" (3 mm), supports tight side-by-side stacking. • IEC 61010-031 rated

- Access ICs down to 0.20 mm wide on a 0.8 mm pitch
- Insulated shaft can be flexed up to 36° in any direction
- Steel pincers open up to .024" (0.6 mm) and can be rotated by hand to desired attachment position
- Interconnection pin .031" (0.8 mm)
- Use with MicroLead interconnection wires
- RoHS (2011/65/EU) compliant

Model	СТ3101 СТ2592-#			
Туре	Set	Individual		
IEC Rating	30 VAC / 60 VDC			
Current Max	1 A			
Color	Black & Red See How to Ord			
Qty / Pkg	1 Pair	10		

How to Order	Color (-#)				
СТ2592-#	-0 Black	-2 Red			

MiniFlex Clip Leads

- IEC 61010-031 rated
- Highly flexible silicone jacketed wire
- Wire gauge: 21 AWG; OD: 2.1 mm (.083")
- Conductor area: 0.40 mm²
- Stranding: 100 x 0.07 mm
- RoHS (2011/65/EU) compliant

Model	СТ3096	CT2551-L-#			
Туре	Set Individual				
One End	MiniFlex Clip				
Other End	4 mm Sheath Banana Jack				
IEC Rating	30 VAC / 60 VDC				
Current Max	1	A			
Length	10 cm	See How to Order			
Color	Black & Red See How to Order				
Qty / Pkg	1 Pair 5				

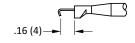
СТЗ096	CT2551-10-2

How to Order					
	Length cm (-L)				
CT2551-L-#	-10	-50			
C12551-L-#	Color (-#)				
	-0 Black	-2 Red			

Clips

SMD Clips & SMD Tweezers

CT3218



MiniPro Miniature Test Clips

Do-it-yourself miniature hook clip for general purpose electronic testing. With a compact size and easy to solder assembly, the clips are ideally suited for today's tight measurement needs. The clips feature smooth, soft touch actuation and the hook contacts are made of high quality gold plated BeCu. Clips are available in 10 colors for easy circuit identification. The MiniPro clips also feature a snap-lock to securely fix the cap to the body.

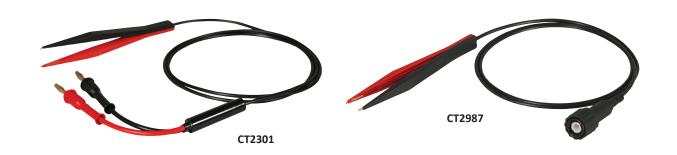
- IEC 61010-031 rated
- Hook opens to .079" (2 mm)
- Contact hook: BeCu, gold plated
- RoHS (2011/65/EU) compliant

Model	СТ3217	CT3180-#	СТ3218			
Туре	Set	Individual	Set			
IEC Rating	30 VAC / 60 VDC					
Current Max	6 A					
Color	Black & Red See How to Order 1 of each Color					
Qty / Pkg	1 Pair	10	10-Piece Clip Set			



CT3180-2

How to Order		Color (-#)								
CT3180-#	-0 Black	-1 Brown	-2 Red	-3 Orange	-4 Yellow	-5 Green	-6 Blue	-7 Violet	-8 Grey	-9 White

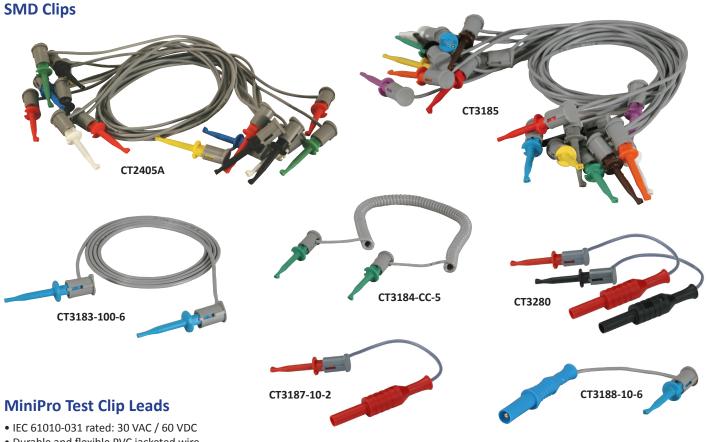


SMD Tweezers with Connector

• RoHS (2011/65/EU) compliant

r	Model	СТ2301	СТ2987			
	Connectors	(Two) 4 mm Banana Plugs, Gold Plated	BNC male Insulated			
	Voltage Max	400 Vrms				
	Current Max	2 A				
	Cable Type	RG-174/U				
	Jacket Material	PVC				
	Length	100) cm			

Clips



- Durable and flexible PVC jacketed wire
- Wire gauge: 21 AWG; OD: 2 mm (.079")
- Conductor area: 0.40 mm²
- Stranding: 104 x 0.07 mm
- RoHS (2011/65/EU) compliant

Model	CT2405A	CT3185	CT3183-100-#	CT3184-CC-#	СТ3280	CT3187-10-#	CT3188-10-#	
Туре	К	it	Individual		Set	Individual		
One End		MiniPro Clip						
Other End		MiniPro Clip		MiniPro Clip Coiled Wire		Sheath Ia Jack	4 mm Sheath Banana Plug	
IEC Rating		30 VAC / 60 VDC						
Current Max	6 A							
Length	100 cm	50 cm	100 cm	70 cm		10 cm		
Color	2 Black, 2 Red, 1 Yellow, 1 Green, 1 Blue, 1 White	1 Black, 1 Brown, 1 Red, 1 Orange, 1 Yellow, 1 Green, 1 Blue, 1 Violet, 1 Grey, 1 White	See How to Order		Black & Red	See How to Order		
Qty / Pkg	1			0	1 Pair	1	10	

How to Order	Color (-#)	
CT3183-100-#	-0 Black	-2 Red
CT3184-CC-#	-0 Black	-2 Red
CT3187-10-#	-0 Black	-2 Red
CT3188-10-#	-0 Black	-2 Red



Coaxial

A complete offering of adapters, attenuators and terminators are available in general purpose grade or in instrument grade. They feature a brass, nickel plated body and a BeCu gold plated contact, and are also available in kits. Coax cables & breakouts feature high quality connectors with gold plated center contacts, and silicone leads for flexibility at low temperature.

Adapters	48-53
Kits	53
Attenuators	54-55
Terminators	55
Cable Assemblies	56
Cable Breakouts	57

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Adapters, Between Series



Model	CT2763	СТ2762	CT2771
Connector Grade	General Purpose		
Type/Gender to Type/Gender	BNC male to N female	BNC female to N male	BNC female to N female
Impedance	50 Ω		
Frequency Range	DC to 4 GHz		
VSWR Max	1.30:1 DC to 4 GHz		
Body	Brass, Nickel Plt.		
Contact	Brass & BeCu, Gold Plt.		
Dielectric	PTFE		
Qty / Pkg	5		

BNC to N, General Purpose Grade

• RoHS (2011/65/EU) compliant



BNC to N, Instrument Grade

• RoHS (2011/65/EU) compliant

Model	СТ3348	СТ3346
Connector Grade	Instrument	
Type/Gender to Type/Gender	BNC female to N female	BNC female to N male
Impedance	50 Ω	
Frequency Range	DC to 10 GHz	
VSWR Max	1.04:1 DC to 1 GHz 1.07:1 1 to 2 GHz 1.29:1 2 to 10 GHz	1.21:1 DC to 1 GHz 1.22:1 1 to 4 GHz 1.29:1 4 to 10 GHz
Insertion Loss	0.1 dB	
Body	Brass, Nickel Plt.	
Contact	Brass & BeCu, Gold Plt.	
Dielectric	PTFE	
Qty / Pkg	1	



C1550

BNC to SMA, General Purpose Grade

• RoHS (2011/65/EU) compliant

Model	СТ3328	СТ3387
Connector Grade	General Purpose	
Type/Gender to Type/Gender	BNC male to SMA female	BNC female to SMA male
Impedance	50 Ω	
Frequency Range	DC to 4 GHz	
VSWR Max	1.30:1 DC to 4 GHz	
Body	Brass, Nickel Plt.	
Contact	Brass & BeCu, Gold Plt.	
Dielectric	PTFE	
Qty / Pkg	5	

48

Adapters, Between Series

Model	СТ3391	СТ3390	СТ3389
Connector Grade	General Purpose		
Type/Gender to Type/Gender	N male to SMA female	N female to SMA male	N female to SMA female
Impedance	50 Ω		
Frequency Range	DC to 11 GHz		
VSWR Max	1.4:1 DC to 11 GHz		
Body	Brass, Nickel Plt.		
Contact	Brass & BeCu, Gold Plt.		
Dielectric	PTFE		
Qty / Pkg	1		

CT3320

N male to

SMA female

1.02:1 DC to 2 GHz

1.04:1 1 to 5 GHz

1.12:1 5 to 12 GHz

0.05 dB

DC to 12 GHz

Instrument

50 Ω

Brass, Nickel Plt.

Brass & BeCu, Gold Plt.

PTFE

1



N to SMA, General Purpose

• RoHS (2011/65/EU) compliant

СТ3340
СТ3320
СТ3322

N to SMA, Instrument Grade

• RoHS (2011/65/EU) compliant

Model	СТ2940	СТ2939
Connector Grade	General Purpose	
Type/Gender to Type/Gender	BNC male to Double 4 mm Banana Plugs	BNC female to Double 4 mm Banana Plugs
Voltage Max	500 Vrms	
Current Max	3 A	
Impedance	50 Ω	
Quantity / Pkg	5	

CT3340

N male to

SMA male

1.10:1 DC to 6 GHz

1.20:1 6 to 12 GHz

0.03 x sqr.

f(GHz) dB

DC to 12 GHz



CT3322

N female to

SMA female

DC to 12 GHz 1.06:1 DC to 2 GHz

1.21:1 1 to 4 GHz

1.22:1 4 to 12 GHz

0.05 dB

DC to 12 GHz



BNC to 4mm Banana Plugs

Adapts a BNC cable, component or equipment to double banana plugs. Fits standard or sheath pair 4 mm banana jacks. Used for interconnection to power supplies, function generators and other test instruments. • RoHS (2011/65/EU) compliant

CT3321

N female to

SMA male

DC to 11 GHz

1.05 + 0.005

x f (GHz)

0.04 x sqr.

f(GHz) dB

Model

Connector Grade

Type/Gender to

Frequency Range

Type/Gender

Impedance

VSWR Max

Insertion Loss

Body

Contact

Dielectric

Qty / Pkg

Adapters, Between Series







Model	CT2410	CT3161-#	CT2941
Connector Grade	General Purpose		
Type/Gender to Type/Gender	BNC male to Double 4 mm Binding Posts	BNC male to Single 4 mm Binding Posts	BNC female to Double 4 mm Binding Posts
Voltage Max	500 Vrms		
Current Max	3 A		
Impedance	50 Ω		
Color	n/a	See How to Order	n/a
Quantity / Pkg	10	5	

BNC to 4mm Binding Posts

Adapts a BNC cable, component or equipment to binding posts. Connections can be made to the binding posts by spade lugs, banana plugs or wire leads.

- 0.75" (19 mm) binding post spacing
- RoHS (2011/65/EU) compliant

Color (-#)	
-0 Black	-2 Red



Insulated BNC to 4mm Banana Plugs

Adapts male BNC cable, component or equipment to double banana plugs. Fits standard or sheath pair 4 mm banana jacks. Used for interconnection to power supplies, function generators and other test instruments.

- 0.75" (19 mm) plug spacing
- IEC 61010-031 rated (CT3889)
- RoHS (2011/65/EU) compliant



Insulated BNC to 4mm Safety Banana Jacks

- 0.75" (19 mm) jack spacing
- IEC 61010-031 rated
- RoHS (2011/65/EU) compliant

Model	СТ3888	СТ3889
Connector Grade	General Purpose	
Type/Gender to Type/Gender	Insulated BNC female to Double 4 mm Banana Plugs	
IEC Rating	<30 VAC / <60 VDC	1000 V CAT II / 600 V CAT III
Current Max	3 A	
Impedance	50 Ω	
Quantity / Pkg	Ę	5

Model	CT2412	СТ2985	
Connector Grade	General Purpose		
Type/Gender to Type/Gender	Insulated BNC male to Double 4 mm Safety Banana Jacks	Insulated BNC female to Double 4 mm Safety Banana Jacks	
IEC Rating	500 V CAT 0		
Current Max	3 A		
Impedance	50 Ω		
Qty / Pkg	10	10	

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CT2985

50

Adapters, In-Series



CT2765



CT2766

CT3313





CT3312



CT2411

BNC, General Purpose Grade

• RoHS (2011/65/EU) compliant

Model	СТ2765	СТ2766	СТ3313	СТ3312	CT2411
Туре	Stra	ight	Right Angle	Тее	
Connector Grade			General Purpose		
Gender to Gender	female to female	male to male	male to female	female to female to female	female to male to female
Impedance	50 Ω				
Frequency Range	DC to 4 GHz DC to 4 GHz (various)			DC to 4 GHz	
VSWR Max	1.30:1 DC to 4 GHz			n,	/a
Insertion Loss	0.2 dB				
Body	Brass, Nickel Plt.				
Contact	BeCu, Gold Plt. Brass, Gold Plt. Brass & BeCu,			Cu, Gold Plt.	Brass, Gold Plt.
Dielectric	PTFE				
Qty / Pkg	5		1		10

Model	СТ3341	
Туре	Тее	
Connector Grade	Instrument	
Gender to Gender	female to male to female	
Impedance	50 Ω	
Frequency Range	DC to 6 GHz	
VSWR Max	n/a	
Insertion Loss	n/a	
Body	Brass, White Bronze, Silver Plt.	
Contact	Brass and BeCu, Gold Plt.	
Dielectric	PTFE	
Qty / Pkg	1	



BNC, Instrument Grade

• RoHS (2011/65/EU) compliant

Adapters, In-Series



N, General Purpose Grade

• RoHS (2011/65/EU) compliant

Model	СТ2759	СТ2758	СТ3388	CT2761	СТ2760
Туре	Stra	ight	Right Angle	Тее	
Connector Grade			General Purpose		
Gender to Gender	male to male	female to female	male to female	female to female to female	female to male to female
Impedance	50 Ω				
Frequency Range	DC to 8 GHz	DC to 11 GHz	DC to 8 GF	Iz (various) DC to 8 GHz	
VSWR Max	1.30:1 DC to 8 GHz 1.35:1 DC to 8 GHz n/a				/a
Insertion Loss	n/a			/a	
Body	Brass, Nickel Plt.				
Contact	Brass, Gold Plt.				
Dielectric	PTFE				
Qty / Pkg	5 1 5			5	

CT3351

CT3350



CT3351

Model

Туре	Straight		
Connector Grade	Instrument		
Gender to Gender	male to male	female to female	
Impedance	50 Ω		
Frequency Range	DC to 11 GHz		
VSWR Max	1.04:1 DC to 2 GHz 1.07:1 2 to 4 GHz 1.12:1 4 to 9 GHz	1.05:1 DC to 2 GHz 1.12:1 2 to 4 GHz 1.17:1 4 to 9 GHz	
Insertion Loss	<0.05 dB DC to 9 GHz		
Body	Brass, White Bronze, Silver Plt.		
Contact	Brass and BeCu, Gold Plt.		
Dielectric	PTFE		
Qty / Pkg	1		

CT3350

N, Instrument Grade

• RoHS (2011/65/EU) compliant

Adapters & Kits

Model	СТ3673	СТ3674		
Туре	Straight	Тее		
Connector Grade	General Purpose			
Gender to Gender	male to female	female to male to female		
Impedance	50 Ω			
Frequency Range	12 GHz	12.5 GHz		
VSWR Max	1.14:1	n/a		
Insertion Loss	0.25 dB	n/a		
Body Sta		el, Passivated		
Contact	BeCu, Gold Plt.			
Dielectric	PTFE			
Qty / Pkg		5		





CT3674

СТ3673

SMA, General Purpose Grade Adapters

• RoHS (2011/65/EU) compliant

Rating			
Connector Grade General Purpose			
Impedance	50 Ω & Various		
Кі	t Contains		
(6) Central Universal connectors plus the following Adapters:			
Type Gender & (Quantity)			
BNC male (2), female (2)			
F male (1), female (1			
N male (2), female (2)			
RCA male (1), female (1			
SMA male (1), female (1)			
TNC male (2), female (2)			
UHF male (2), female (2)			
Mini-UHF male (1), female (1)			

Universal Coaxial Adapter Kit Model CT2701A

This adapter kit allows you to create any combination of in-series and between-series coax adapters for BNC, N, F, TNC, RCA, UHF, Mini-UHF and SMA connectors. This is done by screwing together two separate adapters to a universal center adapter. All pieces are machined brass with Teflon dielectrics and gold plated center contacts. Whether field service or bench, this adapter kit provides an easy solution to coaxial connection requirements.

- 30-piece kit
- RoHS (2011/65/EU) compliant
- Comes in a protective foam lined case





Rating			
Connector Grade	General Purpose		
Impedance	50 Ω		
Frequency Range	DC to 8 GHz		
Kit Co	ntains		
 (1) BNC female to male to female Tee Adapter (1) N female to female Adapter (1) N male to male Adapter (1) N female to male to female Tee Adapter (1) N female to female to female Tee Adapter (1) BNC female to N male Adapter (1) BNC male to N female Adapter (1) BNC female to female Adapter (1) BNC female to female Adapter (1) BNC female to male Adapter (1) BNC female to female to female Adapter (1) BNC female to female Adapter (1) BNC female to female Right-Angle Adapter 			

BNC and N Coaxial Adapter Kit Model CT2702A

• 12-piece kit

- RoHS (2011/65/EU) compliant
- Comes in a protective foam lined case

Attenuators



BNC, 50 Ω, Male to Female Attenuators

Instrument grade BNC male to female 50 Ω fixed coaxial attenuators are linear, passive transmission line components designed to reduce the input power in a matched system. They are intended for laboratory, production, testing and system use. Typical applications include VSWR reduction at the insertion point, range extension of power meters, RF path loss simulation, and isolation or power level reduction of signal sources.

- Available in 7 popular attenuation ranges
- High quality construction
- Excellent VSWR
- Usable to 4 GHz
- Contact BeCu, gold plated
- RoHS (2011/65/EU) compliant
- Available in 6-piece kit CT3382A shown on page 55

Attenuation up to 10 dB

Model	CT3369A-03	CT3369A-06	CT3369A-08	CT3369A-10
Connector Grade	Instrument			
Gender	male to female			
Attenuation (dB) / (V)	3 dB / 1.4x	6 dB / 2x	8 dB / 2.5x	10 dB / 3.2x
Impedance	50 Ω			
Frequency Range	DC to 4 GHz			
VSWR	1.25:1 DC to 4 GHz			
Avg. Power	2 W			
Peak Power	250 W			
Accuracy	+0.5 dB Max			
Body	Brass, Nickel Plt.			
Contacts	BeCu, Gold Plt.			
Quantity / Pkg	1			

Attenuation 14 dB and above

Model	СТ3369А-14 СТ3369А-20 СТ3369А			
Connector Grade	Instrument			
Gender	male to female			
Attenuation (dB) / (V)	14 dB / 5x 20 dB / 10x 30 dB / 100x			
Impedance	50 Ω			
Frequency Range	DC to 4 GHz			
VSWR	1.25:1 DC to 4 GHz			
Avg. Power	2 W			
Peak Power	250 W			
Accuracy	+0.5 dB Max +0.75 dB Max			
Body	Brass, Nickel Plt.			
Contacts	BeCu, Gold Plt.			
Quantity / Pkg	1			

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Attenuators & Terminators

CT3353-10

Attenuator BNC, 50 Ω, **6-Piece Kit**



Kit contains six (6) precision CT3369A BNC, 50 Ω , male to female coaxial attenuators in a convenient kit. Comes in a foam-lined wooden case.

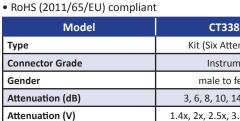
BNC Coaxial Terminators BNC feed-thru terminators match higher

impedance devices to the input impedance

match the characteristic impedance of the

of the test equipment. End terminators

transmission line.



CT3382A

• High quality construction

• 50 Ω feed-thru up to 2 GHz

• RoHS (2011/65/EU) compliant

• Contact BeCu, gold plated

• Excellent VSWR

Model	CT3382A		
Туре	Kit (Six Attenuators)		
Connector Grade	Instrument		
Gender	male to female		
Attenuation (dB)	3, 6, 8, 10, 14 & 20 dB		
Attenuation (V)	1.4x, 2x, 2.5x, 3.2x, 5x & 10x		
Impedance	50 Ω		
Frequency Range	DC to 4 GHz		
VSWR	1.25:1 DC to 4 GHz (Avg.)		
Avg Power	2 W		
Peak Power	250 W		
Accuracy	+0.5 dB Max		
Body	Brass, Nickel Plt.		
Contacts	BeCu, Gold Plt.		

Attenuator

N, 50 Ω , Male to Female

Instrument grade male to female 50 $\boldsymbol{\Omega}$ fixed coaxial attenuator.

- High quality construction
- Excellent VSWR
- Usable to 12.4 GHz
- RoHS (2011/65/EU) compliant

Model	СТ3353-10
Connector Grade	Instrument
Gender	male to female
Attenuation (dB) / (V)	10 dB / 3.2x
Impedance	50 Ω
Frequency Range	DC to 12.4 GHz
VSWR	1.15:1 DC to 4 GHz 1.25:1 4 to 12.4 GHz
Avg Power	2 W
Peak Power	500 W
Accuracy	+0.75 dB Max
Body	Stainless Steel, Passivated
Contacts	BeCu, Gold Plt.
Quantity / Pkg	1



CT2944-50 CT2944-75 CT2944-93



Model	CT2944-50	CT2944-75	CT2944-93	СТ3334-50
Style	Feed-Thru			Term
Connector Grade	General Purpose			
Gender		male to female		male
Impedance	50 Ω	75 Ω 93 Ω		50 Ω
Frequency Range	DC to 2 GHz	DC to 1 GHz		DC to 500 MHz
VSWR	1.10:1 DC to 500 MHz 1.20:1 500 MHz to 2 GHz	1.10:1 DC to 500 MHz 1.20:1 500 MHz to 1 GHz		
Power	2 W	1 W		1/2 W
Input Voltage	≤10 VDC / 20 VAC p-p	≤8 VDC / 16 VAC p-p	≤10 VDC / 20 VAC p-p	
Accuracy	0.5%			
Body	Brass, Nickel Plt.			
Contacts	BeCu, Gold Plt.			
Qty / Pkg	1			



Coxial Cable Assemblies BNC, N, SMA

• IEC 61010-031 rated

• RoHS (2011/65/EU) compliant

Model	CT2942-L	CT2417-L-#	CT3331-100	СТЗЗЗЗ-60	СТ3396-100	СТЗЗЗО-60
Connectors Type	BNC male to BNC male	Insulated BNC male to Insulated BNC male	N male to N male	b to		SMA male to BNC male
Connector Grade			General Purpose			
IEC Rating	n/a	500 V CAT 0		n,	/a	
Impedance			50 Ω			
Frequency Range	DC to 1 GHz	DC to 2 GHz	DC to 12.4 GHz	DC to 18 GHz	DC to 6 GHz	DC to 4 GHz
VSWR Max	1.2:1 DC to 1 GHz		1.4:1 DC to 12.4 GHz	1.3:1 DC to 18 GHz	1.3:1 DC to 6 GHz	1.3:1 DC to 4 GHz
Insertion Loss			0.7 0	dB/ft	0.9 dB/ft	0.7 dB/ft
Cable Type	RG-58C/U	Custom Coax	SRC-4	402SF	SRC-316	SRC-402SF
Jacket Material	PVC High	ly Flexible	FEP, \	White	PVC, White	FEP, White
Insulated BNC	No	Yes	No			
Qty / Pkg	5	10	1			
Length	See How	to Order	100 cm 60 cm 100 cm 60 cm			60 cm
Color	Black	See How to Order		Not Ap	plicable	

Model	How to Order								
	Length cm (-L)								
CT2417 1 #				-100			-200		
CT2417-L-#	Color (-#)								
	-0 Black								
CT2042	Length cm (-L)								
CT2942-L	-25	-50		-100	-120	-150	-200	-250	

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Cable Breakouts

Coaxial Cable Breakout Assemblies BNC Male

- PVC molded boot relief
- RoHS (2011/65/EU) compliant

Model	CT3158-100	CT3230-100			
Connectors	BNC male to Alligator Clips	BNC male to MiniPRO IC Test Clips			
Voltage Max	500	Vrms			
Current Max	3	A			
Cable Type	RG-5	8C/U			
Jacket Material	PVC				
Impedance	50 Ω				
Length	100 cm				
Color	Black				
Qty / Pkg	5				







Breakouts, Insulated BNC Female

- IEC 61010-031 rated
- Flexible silicone breakout leads
- Breakout length: 25 cm
- RoHS (2011/65/EU) compliant

Model	СТ3264	СТ3269	СТ3270		
Connectors	BNC female to Blunt Wire Cut Ends	BNC female to BNC female to MiniPRO IC Test Clips Miniature Alligator C			
IEC Rating	33 VAC / 70 VDC				
Current Max	6 A	2 A			
Impedence	50 Ω				
Conductor Area		0.40 mm ²			
Wire Gauge	21 AWG				
Stranding (# x Diam.)	100 x 0.07 mm				
Qty / Pkg	2				







Cal Test Electronics offers a full line of 4 mm jacks to meet your interconnection needs. The family includes standard panel jacks, binding posts, and specialty jacks that when attached turns a standard jack into a safety version.

All are made of the highest quality material and exacting standards, just what you need to build your next product or test fixture.

59
53
52
53
52

In-Line DIY Assembly

Model	СТ2213-# СТ2215-#					
Туре	Individual					
Wire Attachment	Solder Set Screw					
IEC Rating	30 VAC ,	/ 60 VDC				
Voltage, Max	1,200 VA	AC / VDC				
Current, Max	36	δA				
Body Insulation	Polyamide (Nylon)					
Contacts	Brass, N	ickel Plt.				
Cable Diam. up to	3.9 mm (.1	154") Max				
For Wires up to	2.5 mm ²	13 AWG				
Assembly	n/a Requires Small Screwdriver					
Color	See How to Order					
Qty / Pkg	5	0				



In-Line 4mm Banana Jacks, Insulated, **DIY Assembly**

For Solder Assembly Model CT2213: Solder wire attachment, then thread jack into the insulator.

For Solderless Assembly Model CT2215: Screw down clamp for solderless wire attachment, then thread jack into the insulator.

- IEC 61010-031 rated
- RoHS (2011/65/EU) compliant

How to Order	Color (-#)					
CT2213-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White
CT2215-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White





Model	СТ3207	CT3207W	CT3134-#	CT3134-S-#		
Туре	S	et	Individual			
Wire Attachment	Set Screw So					
*IEC Rating			1,000 V CAT III / 600 V CAT IV			
Current, Max		36 A				
Body Insulation	Polyamide (Nylon)					
Contacts		Brass, N	ickel Plt.			
Cable Diam. up to		3.9 mm (.	154") Max			
For Wires up to		2.5 mm ²	13 AWG			
Assembly	Requires 1.5 mmIncludes 1.5 mmAllen WrenchAllen Wrench		Requires 1.5 mm Allen Wrench	n/a		
Color	Black	& Red	See How to Order			
Qty / Pkg	1 F	0				

* IEC Rating when using equally rated lead wire.

CT3134-S-2	
	New

In-Line 4mm Banana Jacks, Sheath, Fully Insulated, DIY Assembly

Fully Insulated. Do-it-yourself connection. 2-piece assembly. • IEC 61010-031 rated

• RoHS (2011/65/EU) compliant

How to Order	Color (-#)					
CT3134-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White
CT3134-S-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White

Panel Mount & Accessories Ø.472 ±.004 (Ø 12.0 ± .1) **4mm Sheath Banana Jacks** Ø.57 (Ø14.5) Panel Mount w/Panel Nut .11 (2.8) **Drill Panel** 4 mm safety banana jack (socket) accepts sheath or shrouded banana plugs and meets IEC 61010-031 to 1,000 V CAT III and .24 (6) 600 V CAT IV. Round panel nut allows for compact placement and easy assembly. • IEC 61010-031 rated .94 (24) • Materials: body: polyamide (nylon); jack and nut: brass, nickel plt. Æ • Maximum panel thickness: .40" (10 mm) • M12 x 0.75 mm thread Use assembly tool CT2246A • RoHS (2011/65/EU) compliant See Terminals V V V V .32 .39 .39 .16 (4) .16 (4) m 0 .48 0 (8) (10)(10). . M3 Thd (11).86 Ø.12 Ø.12 . V T (20.5)(Ø 3) (Ø 3) Ø .07 .188 .25 .06 Ø .080 (2) M4 Stud (Ø 1.9) **(**1.6) (4.8)(6.3) Hole .032 (.8) Thk .032 (.8) Thk Ø .080 (2) Ø.07 Hole (Ø 1.9) Model CT2236-# CT2238-# CT2240-# CT2242-# CT2904-# CT2906-# CT2908-# CT2910-# 1,000 V CAT III / 600 V CAT IV **IEC** Rating 25 A 36 A 36 A **Current Max** 1.9 mm diam. 1.9 mm diam. M3 .25" (6.4 mm) .080" (2 mm) .188" (4.8 mm) M4 .080" (2 mm) Termination x 12 mm x 21 mm threaded Threaded Stud Faston® solder hole solder slot Faston® short pin long pin hole Color See How to Order Qty / Pkg 50

How to Order									
Model-#	Color (-#)								
Wodel-#	-0 Black	-1 Brown	-2 Red	-4 Yellow	-5 Green	-6 Blue	-7 Violet	-8 Grey	-9 White

Panel Mount Banana Jack Accessories



Wrench Set

ModelCT2246A2-piece assembly wrench for panelmount 4 mm safety jacks.RoHS (2011/65/EU) compliant



Replacement Nut

ModelCT2830Materials: brass, nickel plt.Thread: M12 x 0.75 mmRoHS (2011/65/EU) compliantSold in package of 100



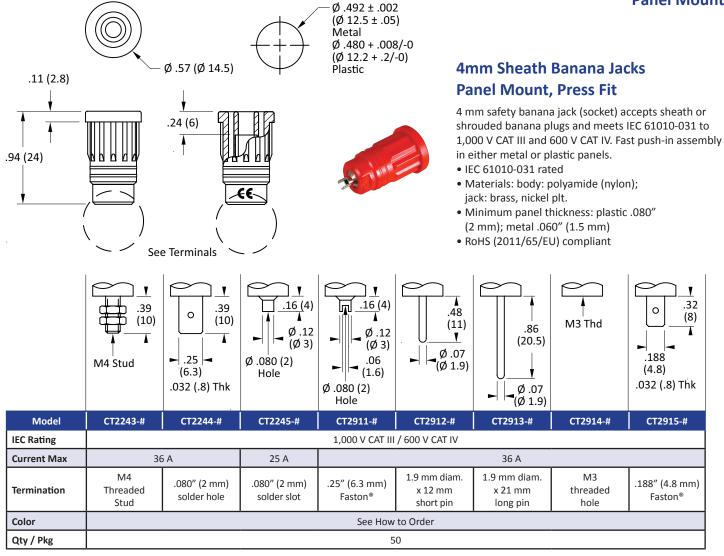
Banana Jack Standoff

Model	CT2667-#					
Standoff for raising banana jacks Model Color						
11 mm ab	ove panel. Materials:	CT2667-0	Black			
polyamide	e (nylon). Max voltage rating	CT2667-2	Red			
for socket	using standoff: 600 V CAT III.	CT2667-4	Yellow			
RoHS (201	Green					
Sold in page	ckage of 50	CT2667-8	Grey			



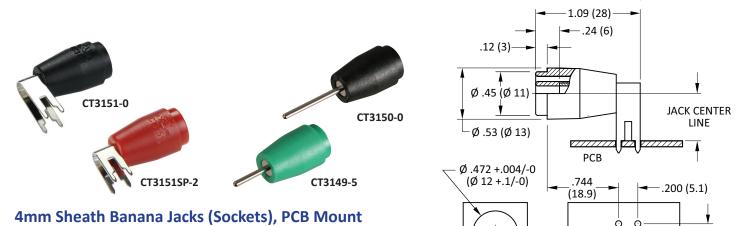
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Panel Mount

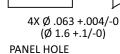


	How to Order									
Model #					Color (-#)					
Model-#	-0 Black	-1 Brown	-2 Red	-4 Yellow	-5 Green	-6 Blue	-7 Violet	-8 Grey	-9 White	

PCB Mount & Adapters



- IEC 61010-031 rated: 1000 V CAT III
- Current Max: 25 A
- Materials: body: polyamide (nylon); jack: brass, nickel plt.
- Panel thickness: .118" (3 mm)
- 4 mm safety jack (socket) accepts sheath or shrouded banana plugs
- RoHS (2011/65/EU) compliant



PCB MOUNT

o o

.200 (5.1)

Model	СТ3151-#	CT3151SP-#	СТ3149-#	СТ3150-#	
Mounting into PCB	4 Terminals i	into PCB Pad	1.9 mm Diam. x 12 mm Short Pin1.9 mm Diam. x 21 mm Logfor insertion into a PCBfor insertion into a P		
Jack Center Line	.492" (12.5 mm) above PCB Surface	.300" (7.6 mm) above PCB Surface	Not applicable		
UL Recognized	per PICQ2 and	PICQ8 E315929	Not applicable		
Color	See How to Order				
Qty / Pkg	10	00	50		

How to Order									
Madal #					Color (-#)				
Model-#	-0 Black	-1 Brown	-2 Red	-4 Yellow	-5 Green	-6 Blue	-7 Violet	-8 Grey	-9 White



Banana Jack Adapters

Adapter turns a standard 4 mm banana jack into a safety jack. The jack will now accept a sheath 4 mm banana plug. Assemble with a 1.5 mm Allen wrench (CT2919) to provide a firm attachment. Materials: Body: polyamide (nylon); jack: brass, nickel plt. • IEC 61010-031 rated

• RoHS (2011/65/EU) compliant

Model	CT2575-#	CT2247-#			
IEC Rating	400 V CAT 0 1,000 V CAT 0				
Current Max	36 A				
Color	See How to Order				
Qty / Pkg	10				

How to Order						
Model-#	Color (-#)					
	-0 Black	-2 Red				



Allen Wrench, 1.5mm

ModelCT2919Assembly wrench for safety
adapters and DIY sheathed plugs and jacks.Materials: steelRoHS (2011/65/EU) compliant
Sold in package of 5



62

Panel Mount & Binding Posts

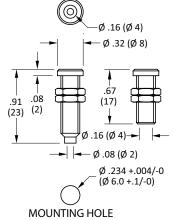
4mm Standard Banana Jacks (Sockets) Un-Insulated, Panel Mount

- For direct mounting to a panel
- Great for grounding point
- Materials: jack and nut: brass, nickel plt.
- M6 x 0.75 mm thread
- RoHS (2011/65/EU) compliant

Model	СТ2220	CT2224		
Current Max	36 A			
Termination	Solder Hole Thru Hole			
Qty / Pkg 50				



CT2224



4mm Standard Banana Jacks (Sockets) Insulated, Panel Mount

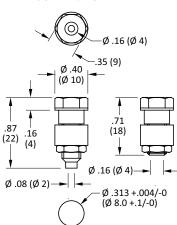
- IEC 61010-031 rated
- For direct mounting to a panel
- Materials: body: polyamide (nylon); jack: brass, nickel plt.
- Maximum panel thickness: .20" (5 mm)
- M6 x 0.75 mm thread
- RoHS (2011/65/EU) compliant

Model	СТ2228-#	CT2230-#			
IEC Rating	30 VAC / 60 VDC				
Voltage Max	1,200 VAC / VDC				
Current Max	36 A				
Termination	Solder Hole	Thru Hole			
Color	See How to Order				
Qty / Pkg	50				



CT2230-2

CT2232-0



MOUNTING HOLE

Ø.16 (Ø4)

Ø .08 (Ø 2)

.10 MAX

(2.5 MAX)

Ø.08 (Ø2)

MOUNTING HOLE

Ø.313+.004/-0 (Ø8.0+.1/-0)

MOUNTING HOLE

How to Order		Color (-#)					
CT2228-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White	
CT2230-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White	

Ø.43 (Ø11)-

.84 MAX (21 MAX)

.10

.77 (2.5) (20) |

Binding Posts, Panel Mount

- IEC 61010-031 rated
- 4 mm standard banana jack w/ 2 mm cross hole
- Material: body: polyamide (nylon); jack: brass, nickel plt.
- M6 x 0.75 mm thread
- RoHS (2011/65/EU) compliant

Model	СТ2232-#	СТ2234-#		
Туре	Insulated	Uninsulated		
IEC Rating	30 VAC / 60 VDC			
Voltage Max	1,200 VAC / VDC			
Current Max	36 A			
Color	See How to Order			
Quantity / Pkg	50			

How to Order	Color (-#)					
СТ2232-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White
СТ2234-#	-0 Black	-2 Red				

CT2234-2

Ø.234+.004/-0

 $(\emptyset 6.0 + .1/-0)$



Banana Plugs

The most extensive line of plugs and leads on the market today. This category includes standard banana plugs, both with in-line and stackable configurations with either solder or solderless connections. Also included are sheath, stackable, retractable and DIY plugs. All are made of the highest quality material to exacting standards.

Standard	65
Double	66
Sheath	66-67
Retractable Sleeve	68
Test Leads	69-73
Technical Reference	88-89

Standard



Do-It-Yourself with 3 styles of wire attachment.

• IEC 61010-031 rated

CT3249-#

*Spring-loaded

Button

20 A

Polyamide (Nylon)

n/a

10

• RoHS (2011/65/EU) compliant

* Depress the spring loaded button, insert the wire and release. The connection is completed including a secure grip on the wire's insulation.

50

	How to Order							
Model-#		Color (-#)						
	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White		

Model	CT2013-#	CT2016-#				
Wire Attachment	Set Screw	*Spring- Loaded Clamp				
Туре	Indiv	idual				
IEC Rating	30 VAC / 60 VDC					
Voltage Max	1,200 VAC / VDC					
Current Max	36 A					
Body Insulation	Polyamid	e (Nylon)				
Plug & Contact Material	Brass & BeC	u, Nickel Plt.				
Wire Max	2.5 mm² (13 AWG)	3.9 mm (.154") Max				
Assembly	Requires Small Screwdriver n/a					
Color	See How to Order					
Qty / Pkg	10					

* Depress the spring loaded clamp, insert the wire and release. The connection is completed including a secure grip on the wire's insulation.

How to Order						
Model-#	Color (-#)					
	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White



4mm Banana Plugs, Stacking

Do-It-Yourself with 2 styles of solderless wire attachment.

- IEC 61010-031 rated
- Solderless connection
- RoHS (2011/65/EU) compliant



CT2011-#

36 A

Set Screw

Individual

30 VAC / 60 VDC

1,200 VAC / VDC

Brass & BeCu, Nickel Plt.

2.5 mm² (13 AWG) 3.9 mm (.154") Max

Requires Small Screwdriver

See How to Order

CT3276-#

Santoprene





Polyamide (Nylon)

CT2002-#

Solder

n/a

100

Model

Wire Attachment

Туре

IEC Rating

Voltage Max

Current Max

Wire Max

Assembly

Qty / Pkg

Color

Body Insulation

Plug & Contact Material

Sheath and Double







4mm Banana Plugs Sheath, In-Line

Do-It-Yourself safety plugs.

- IEC 61010-031 rated
- CT2989 and CT3205 3-piece assembly
- RoHS (2011/65/EU) compliant

Model	CT3250-#	СТ3205	CT3205W	CT2989-#	CT2989-S-#		
Wire Attachment	*Spring- Loaded Button	Set Screw Solder					
Туре	Individual	Se	et	Indiv	idual		
**IEC Rating	600 V CAT II		1,000 V CAT III				
Current Max	20 A		36	5 A			
Body Insulation			Polyamide (Nylon)				
Plug & Contact Material		Br	rass & BeCu, Nickel P	lt.			
Wire Max		2.5 mm² (13 AWG) 3.9 mm (.1	154") Max			
Assembly	n/a	Requires 1.5 mm Allen Wrench	Includes 1.5 mm Allen Wrench	Requires 1.5 mm Allen Wrench	n/a		
Color	See How to Order	Black	& Red	See How to Order			
Qty / Pkg	10	1 P	Pair	1	0		

* Depress the spring loaded button, insert the wire and release. The connection is completed including a secure grip on the wire's insulation.

** IEC Rating when using equally rated lead wire.

How to Order								
Model	Color (-#)							
СТ3250-#	-0 Black	-2 Red						
СТ2989-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White		
СТ2989-S-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White		



4mm Double Banana Plugs

Molded 4 mm double banana plug. Do-It-Yourself assembly without solder.

- IEC 61010-031 rated
- RoHS (2011/65/EU) compliant

How to Order						
Model	Colo	Color (-#)				
CT3160-#	-0 Black	-2 Red				

Model	СТ3160-#		
Wire Attachment	Set Screws		
Туре	Individual		
IEC Rating	30 VAC / 60 VDC		
Voltage Max	5,000 VDC		
Current Max	15 A		
Body Insulation	ABS		
Plug & Contact Material	Brass & BeCu, Nickel Plt.		
Wire Max	18 - 22 AWG 5.5 mm (.21")		
Assembly	Requires Small Screwdriver		
Color	See How to Order		
Quantity / Pkg	10		

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66

Sheath



Model

Wire Attachment

Style

Туре

*IEC Rating

Current Max Body Insulation Plug & Contact Material Wire Max

Assembly

Qty / Pkg

Color



CT2631-2 CT2631-S-2



06	CT3206W	CT2631-#	CT2631-S-#	4mm E					
Straight									
	Set Screw		Solder	Do-It-You					
Se	et	Indiv	idual	• IEC 610					
	600 V CAT IV /	1,000 V CAT III		• 3-piece					
	36	δA		• RoHS (2					
Polyamide (Nylon)									
Brass & BeCu, Nickel Plt.									
2.5 mm ² (13 AWG) 3.9 mm (.154") Max									

Requires 1.5 mm

Allen Wrench

n/a

See How to Order

10

Banana Plugs h, Stacking

urself stacking safety plugs.

- 010-031 rated
- e assembly
- 2011/65/EU) compliant

* IEC Rating when using equally rated lead wire.

Requires 1.5 mm

Allen Wrench

How to Order								
Model		Color (-#)						
CT2631-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White		
CT2631-S-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White		

Includes 1.5 mm

Allen Wrench

Black & Red

1 Pair

New





4mm Banana Plugs Sheath, Right-Angle

Do-It-Yourself right-angle safety plugs.

- IEC 61010-031 rated
- 3-piece assembly

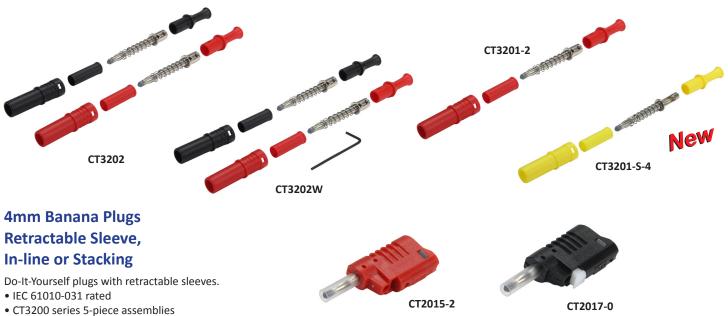
• RoHS (2011/65/EU) compliant

Model	CT3204	CT3204W	СТ3203-#	CT3203-S-#	
Style		Right	-Angle		
Wire Attachment		Set Screw		Solder	
Туре	Se	et	Indiv	idual	
*IEC Rating		1,000 V CAT III / 600 V CAT IV			
Current Max		20) A		
Body Insulation		Polyamic	le (Nylon)		
Plug & Contact Material		Brass & BeC	Cu, Nickel Plt.		
Wire Max		2.5 mm² (13 AWG)	3.9 mm (.154") Max		
Assembly	Requires 1.5 mm Allen Wrench	Includes 1.5 mm Allen Wrench	Requires 1.5 mm Allen Wrench	n/a	
Color	Black	& Red	See How to Order		
Qty / Pkg	1 P	air	1	0	

* IEC Rating when using equally rated lead wire.

How to Order								
Model		Color (-#)						
СТ3203-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White		
СТ3203-S-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White		

Retractable Sleeve



• RoHS (2011/65/EU) compliant

Model	СТ3202	СТ3202W	СТ3201-#	CT3201-S-#	CT2015-#	СТ2017-#	
Style		In-l	ine		Stac	king	
Wire Attachment	Set Screw			Solder	Set Screw	**Spring- Loaded Clamp	
Туре	S	et		Indiv	vidual		
IEC Rating		*600 \	/ CAT II		30 VAC	/ 60 VDC	
Voltage Max					1,200 VAC / VDC		
Current Max	36 A						
Body Insulation			Polyamid	le (Nylon)			
Plug & Contact Material	Brass & BeCu, Nickel Plt.						
Wire Max			2.5 mm ² (13 AWG)	3.9 mm (.154") Max			
Assembly	Requires 1.5 mm Allen Wrench	Includes 1.5 mm Allen Wrench	Requires 1.5 mm Allen Wrench	n/a	Requires Small Screwdriver	n/a	
Color	Black & Red See How to Order						
Qty / Pkg	1 Pair 10						

* IEC Rating when using equally rated lead wire.

** Depress the spring loaded clamp, insert the wire and release. The connection is completed including a secure grip on the wire's insulation.

How to Order								
Model	Color (-#)							
CT3201-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White		
CT3201-S-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White		
CT2015-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White		
CT2017-#	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White		

Test Leads



4mm Banana Plug Straight Plug to Straight Plug

Standard 4 mm banana plug for all basic interconnection applications.

- IEC 61010-031 rated
- With highly flexible silicone or PVC jacketed lead wire
- RoHS (2011/65/EU) compliant

Model	CT2062-L-#	CT2060-L-#		
Туре	Indiv	idual		
IEC Rating	30 VAC /	/ 60 VDC		
Voltage Max	1,200 VA	AC / VDC		
Current Max	12	2 A		
Jacket Material	Silicone	PVC		
Body Insulation	Polyamide (Nylon)			
Contact Material	BeCu, Nickel Plt.			
Wire Gauge	18 AWG			
Stranding (# x Diam.)	195 x 0.07 mm			
OD	3.7 mm (.146")			
Length & Color	See How to Order			
Quantity / Pkg	1	0		

How to Order							
		L	ength cm (-l	.)			
CT2062-L-#	-25	-50	-100	-150	-200		
C12062-L-#	Color (-#)						
	-0 Black	-2 Red					
	Length cm (-L)						
CT2060-L-#	-25	-50	-100				
	Color (-#)						
	-0 Black	-2 Red					



4mm Retractable Sleeve Banana Plug Straight Plug to Straight Plug

Covering sleeve retracts as you plug into the jack. Banana plugs include a grey plastic insulation tip for added user protection.

- IEC 61010-031 rated
- Highly flexible silicone jacketed lead wire
- RoHS (2011/65/EU) compliant

Model	СТЗ637-L-#
Туре	Individual
IEC Rating	600 V CAT II
Current Max	12 A
Jacket Material	Silicone
Body Insulation	Polyamide (Nylon)
Contacts Material	BeCu, Nickel Plt.
Wire Gauge	18 AWG
Stranding (# x Diam.)	195 x 0.07 mm
OD	3.7 mm (.146")
Length & Color	See How to Order
Quantity / Pkg	10

How to Order					
	Length cm (-L)				
СТЗ637-L-#	-100	-150	-200		
		Color (-#)			
	-0 Black	-2 Red			

Test Leads



Fixed sheath for highest user protection.

- IEC 61010-031 rated
- Models CT3751 and CT3752 UL listed
- Highly flexible silicone jacketed lead wire
- RoHS (2011/65/EU) compliant

Model	CT3752-L	CT3751-L-#	СТ2485	CT2162-L-#	
Туре	Set	Individual	Set	Individual	
IEC Rating	1,000 V CAT III	/ 600 V CAT IV	1,000 V	/ CAT IV	
Current Max	10) A	12	2 A	
UL Listed	Ye	es			
Jacket Material		Silic	cone		
Body Insulation	Polyamide (Nylon)				
Contacts Material	BeCu, Nickel Plt.				
Wire Gauge		18 /	AWG		
Stranding (# x Diam.)	175 x 0	.08 mm	195 x 0	.07 mm	
OD	4.0 mm (.157") 3.7 mm (.146")				
Length	See How to Order		150 cm (60")	See How to Order	
Color	Black & Red	See How to Order	Black & Red	See How to Order	
Quantity / Pkg	1 Pair	10	1 Pair	10	

How to Order						
CT3752-L			Length cm (-L)			
C13752-L			-100	-150	-200	
			Length cm (-L)			
CT3751-L-#		100		-150	-200	
C13/51-L-#	Color (-#)					
	-0 Black	-2 Red				
			Length cm (-L)			
CT2162-L-#	-25	-50	-100	-150	-200	
C12102-L-#	Color (-#)					
	-0 Black	-2 Red				

CT2147-100-2

CT2148-100-2

CT2151-100-2

Test Leads





4mm Stacking Banana Plug Straight Plug to Straight Plug

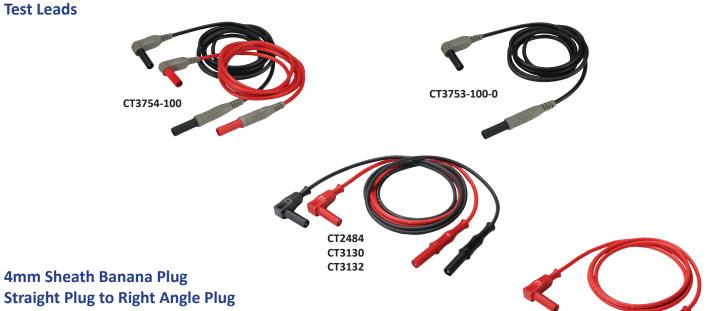
Stacking banana plugs are available as standard, sheath or retractable. Retractable plugs feature clear covering sleeves that retract as you plug into the jacks and have a grey plastic insulation tip for added user protection. • IEC 61010-031 rated

- Highly flexible silicone or PVC jacketed wire
- RoHS (2011/65/EU) compliant

Model	CT2131-L-#	CT2521-L-#	CT2148-L-#	CT2151-L-#	CT2147-L-#
Style	Stacking Plug	Stacking Sheath Plug	Stacking Retractable Sheath Plug		
Туре			Individual		
IEC Rating	30 VAC / 60 VDC	1,000 V CAT III / 600 V CAT IV	600 V CAT II		
Voltage Max	1,200 VAC / VDC				
Current Max	12 A 36 A			36 A	12 A
Jacket Material	Silicone			PVC	
Body Insulation			Polyamide (Nylon)		
Contacts Material			BeCu, Nickel Plt.		
Wire Gauge		18 AWG		13 AWG	18 AWG
Stranding (# x Diam.)	195 x 0.07 mm			651 x 0.07 mm	195 x 0.07 mm
OD	3.7 mm (.146")			3.9 mm (.154")	3.7 mm (.146")
Length & Color	See How to Order				
Quantity / Pkg	10				

	How to Order						
			Length	cm (-L)			
CT2131-L-#	-25	-50	-100	-150	-200		
CT2521-L-#			Colo	r (-#)			
	-0 Black	-2 Red					
			Length	cm (-L)			
CT2148-L-#	-25	-50	-100	-150	-200		
CT2151-L-#	Color (-#)						
	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White	
			Length	cm (-L)			
CT2147-L-#		-50	-100				
C12147-L-#			Colo	r (-#)			
	-0 Black	-2 Red					

Test Leads



CT2176-100-2

Most common test lead set (and replacement) for handheld DMMs. Right-angle banana plug for the meter and straight banana plug for the probe or clip.

• IEC 61010-031 rated

- Models CT3753 and CT3754 UL listed
- RoHS (2011/65/EU) compliant

Model	CT3754-L	CT3753-L-#	CT2484	CT2176-L-#	CT3130	CT3132	
Туре	Set	Individual	Set	Individual	Set		
IEC Rating			1,000 V CAT III	/ 600 V CAT IV			
Current Max	10	A	12	2 A	20 A	12 A	
Jacket Material		Silic	one		PVC	Silicone	
UL Listed	Ye	es					
Body Insulation	Polyamide (Nylon)						
Contacts Material		BeCu, Nickel Plt.					
Wire Gauge		18 A	WG		17 AWG	18 AWG	
Stranding (# x Diam.)	175 x 0	.08 mm	195 x 0	.07 mm	259 x 0.07 mm	195 x 0.07 mm	
OD	4.0 mm	4.0 mm (.157") 3.7 mm (.146")			3.8 mm (.150")	3.7 mm (.146")	
Length	See How to Order 150 cm (60") See How to Order 100 cm (40")					n (40")	
Color	Black & Red	See How to Order	Black & Red	See How to Order	Black & Red		
Qty / Pkg	1 Pair	10	1 Pair	10	1 F	Pair	

How to Order					
CT3754-L		Length cm (-L)			
C13754-L	-100	-150	-200		
		Length cm (-L)			
CT3753-L-#	-100	-150	-200		
C13755-L-#	Color (-#)				
	-0 Black	-2 Red			
	Length cm (-L)				
CT2176-L-#	-100	-150	-200		
C121/6-L-#	Color (-#)				
	-0 Black	-2 Red			

caltestelectronics.com

Banana Plugs

Test Leads



СТ3802-30-2

CT3804-30-0



4mm Sheath Banana Plug Sheath Plug to Insulated Alligator Clip

Convenient DMM sheath banana plug to insulated standard alligator clip.

• IEC 61010-031 rated

• RoHS (2011/65/EU) compliant

Model	CT3803-L	CT3802-L-#	CT3805-L	CT3804-L-#	
Туре	Set	Individual	Set	Individual	
One End	Straight	Sheath	Right-Ang	le Sheath	
Other End		Insulated A	lligator Clip		
IEC Rating		300 V	CAT II		
Current Max		10	A		
Jacket Material		Silic	one		
Body Insulation		Polyamid	e (Nylon)		
Banana Contacts		BeCu, Nickel Plt.			
Alligator Jaws Opens to	.31" (7.9 mm)				
Alligator Clip		Steel, N	ickel Plt.		
Wire Gauge	18 AWG				
Stranding (# x Diam.)		175 x 0.08 mm			
OD	4.0 mm (.157")				
Length	See How to Order				
Color	Black & Red	See How to Order	Black & Red	See How to Order	
Qty / Pkg	1 Pair	10	1 Pair	10	

How to Order				
		Length cm (-L)		
CT3802-L-#	-30	-60		
C13802-L-#		Color (-#)		
	-0 Black	-2 Red		
CT3803-L	Length cm (-L)			
C13803-L	-30	-60		
	Length cm (-L)			
CT3804-L-#	-30	-60	-100	
C13804-L-#	Color (-#)			
	-0 Black	-2 Red		
072005 1		Length cm (-L)		
CT3805-L	-30	-60	-100	



Test Lead Wires

Our quality test lead wire is ideal for building do-it-yourself test leads, patch cords and test fixtures. Wires feature highly stranded copper conductors with soft silicone or PVC jackets for high flexibility, and double layers for safety and durability. All conform to IEC61010-031.

Available from 2 A to 36 A in three convenient lengths: 10, 50, and 100 m and in 6 colors. Test Lead Wire Racks are offered for storing and organizing your Test Leads.

Silicone and PVC Jacketed	. 75
Test Lead Racks	. 76

Test Lead Wires

Silicone & PVC Jacket

Silicone Jacketed

Ideal test lead wire for building Do-It-Yourself (DIY) test leads, patch cords, and test fixtures. Silicone is the best test lead jacket material, combining high flexibility, even at low temperatures, with resistance to burns and chemicals. The conductor is highly stranded soft bare copper for additional flexibility.

- IEC 61010-031 rated
- Meets the safety requirements of IEC 61010-031
- Available in 6 colors: black, red, yellow, green, blue and white
- Available in 3 lengths: 10 m, 50 m & 100 m
- RoHS (2011/65/EU) compliant



Model	CT2956-#-L	CT2883-#-L	CT2884-#-L	CT2799-#-L	CT2957-#-L	CT2885-#-L	CT2844-#-L
IEC Rating			1	,000 V CAT III / CAT I	V		
Current Max	2 A	6 A	10 A	12 A	20 A	25 A	36 A
Jacket Material		Silicone					
Conductor Area	0.22 mm ²	0.40 mm ²	0.50 mm ²	0.75 mm²	1.00 mm ²	1.50 mm ²	2.50 mm ²
Wire Gauge	23 AWG	21 AWG	20 AWG	18 AWG	17 AWG	15 AWG	13 AWG
Stranding (# x Diam.)	56 x 0.07 mm	104 x 0.07 mm	130 x 0.07 mm	195 x 0.07 mm	259 x 0.07 mm	392 x 0.07 mm	651 x 0.07 mm
OD	1.4 mm (.055")	2.1 mm (.083")	2.7 mm (.106")	3.7 (.14	mm 46")	3.8 mm (.150")	3.9 mm (.154")
Color & Length	See How to Order at bottom of page						

PVC Jacketed

PVC jacketed test lead wire is the choice for cost effective, high quality test leads and patch cords. The jacket features a durable colored outer layer with an inner white layer for cut or wear visibility. The conductor is highly stranded soft bare copper for additional flexibility.

- IEC 61010-031 rated
- Meets the safety requirements of IEC 61010-031
- Available in 6 colors: black, red, yellow, green, blue and white
- Available in 3 lengths: 10 m, 50 m & 100 m
- RoHS (2011/65/EU) compliant



Model	CT2878-#-L	CT2879-#-L	CT2837-#-L	CT2880-#-L	CT2881-#-L	CT2882-#-L
IEC Rating			1,000 V CA	T III / CAT IV		
Current Max	6 A	10 A	12 A	20 A	25 A	36 A
Jacket Material		PVC				
Conductor Area	0.40 mm ²	0.50 mm ²	0.75 mm ²	1.00 mm ²	1.50 mm ²	2.50 mm ²
Wire Gauge	21 AWG	20 AWG	18 AWG	17 AWG	15 AWG	13 AWG
Stranding (# x Diam.)	104 x 0.07 mm	130 x 0.07 mm	195 x 0.07 mm	259 x 0.07 mm	392 x 0.07 mm	651 x 0.07 mm
OD	2.0 mm (.079")	2.7 mm (.106")	3.7 mm (.146")		mm 50")	3.9 mm (.154")
Color & Length	See How to Order at bottom of page					

How to Order						
			Color	(-#)		
Dandal # 1	-0 Black	-2 Red	-4 Yellow	-5 Green	-6 Blue	-9 White
Model-#-L	Length m (-L)					
	-10	-50	-100			

Test Lead Wires

Test Lead Racks

СТ3273

*in n*innin



Wire Racks, Wall

- Wall mounted
- Mounting hardware included
- RoHS (2011/65/EU) compliant

Model	СТ3273	CT2051
Capacity (approx.)	50 Test Leads	60 Test Leads
Style	Fixed	Adjustable
Rack Configuration	13 slots (in 3 widths): 2 Wide slots 5.8 mm (.23") 2 Narrow slots 2.8 mm (.11") 9 Medium slots 4.2 mm (.17")	Rail: 35 cm (14") Wide; 18 Adjustable Plastic Hooks may be positioned as needed
Material	Steel, Black	Aluminum Rail with Plastic Hooks



Wire Racks, Rolling

Suitable for laboratories or classrooms, our smooth rolling test lead racks provide stable and portable storage. The central storage tray is height adjustable and features either 100 or 200 test lead capacity.

- 5-castor base
- Height adjustable
- Central storage tray
- Some assembly required
- RoHS (2011/65/EU) compliant

Model	СТ3274	СТ3275		
Capacity (approx.)	100 Test Leads	200 Test Leads		
# of Racks (CT3273)	2	4		
Central Tray	Plastic, Grey 14.6" x 10.6" x 4.1" (370 x 270 x 105 mm)			
Height Adjustable	39″ - 71″ (1 - 1.8 m)			



Cal Test Electronics offers a selection of instrument accessory kits that incorporate the most commonly needed items into a single package. Each kit has been designed around a specific test instrument and contains a selection of products so that you can quickly conduct performance, verification or calibration tests.

Power Supply	78
Function Generator and	
Frequency Counter	79
Spectrum Analyzer	80
Oscilloscope	81
Digital Multimeter 8	2-87

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Power Supply



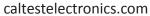


Power Supply Kits

Three convenient kits providing the leads and adapters to connect your AC or DC bench power supply.

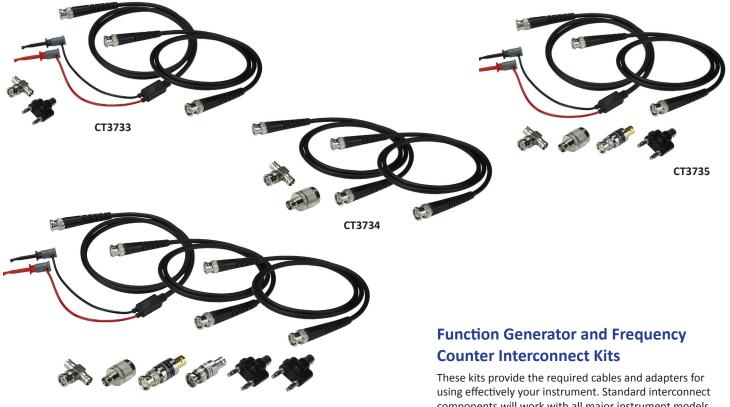
- IEC 61010-031 rated accessories
- RoHS (2011/65/EU) compliant
- Packaged in clear clamshell blister

Model	CT3374A	СТ3375А	СТ3376А
Description	6-Piece Kit	12-Piece Kit	15-Piece Kit
Typically Used By	Technician	Senior Technician	Engineer
Grade	Basic	Enhanced	Advanced
Current Max	10 A	10 A	36 A
Components		Kit Contains	
Lead 4 mm Banana, Stacking Retractable, Sheath, Plug to Plug, Silicone Jacketed Wire, 18 AWG, Length 100 cm (40")	2 (1 Black, 1 Red)	2 (1 Black, 1 Red)	
Lead 4 mm Banana, Stacking Retractable, Sheathed, Plug to Plug, Silicone Jacketed Wire, 13 AWG, Length 100 cm (40")			3 (1 Black, 1 Red, 1 Green)
Lead Insulated Mini Crocodile Clips, PVC Jacketed Wire, 20 AWG, Length 200 cm (80")		2 (1 Black, 1 Red)	
Adapter 6 mm Spade to 4 mm Jack	2 (1 Black, 1 Red)	4 (2 Black, 2 Red)	6 (2 Black, 2 Red, 2 Green)
Medium Insul. Alligator Clip w/ 4 mm Jack	2 (1 Black, 1 Red)	2 (1 Black, 1 Red)	
Extra Large Insul. Alligator Clip w/ 4 mm Jack		2 (1 Black, 1 Red)	3 (1 Black, 1 Red, 1 Green)
Adapter BNC female to 4 mm Banana Plugs			1 (Black)
Adapter BNC male to 4 mm Banana Posts			1 (Black)
Cable Assembly BNC male RG-58C/U, 100 cm (40")			1 (Black)





Function Generator & Frequency Counter



CT3736

components will work with all major instrument models.

- RoHS (2011/65/EU) compliant
- Packaged in clear clamshell blister

Model	СТ3733	СТ3734	CT272E	CT2726
INIOGEI	C13733	C13734	CT3735	СТ3736
Description	4-Piece Kit	4-Piece Kit	6-Piece Kit	9-Piece Kit
Typically Used By	Technician	Technician	Senior Technician	Engineer
For Frequency Counters		x		
For Function Generators	х		x	
For Arbitrary Generators				х
Connector Grade		General	Purpose	
Impedance		50) Ω	
Components		Kit Co	ontains	
Coaxial Cable, BNC male, 50 Ω, RG-58C/U, Length 100 cm (40")	1	2	1	2
Coaxial Cable, BNC male to IC Clips (1 Black & 1 Red), 50 Ω, RG-58C/U, Length 100 cm (40")	1		1	1
Tee Adapter, BNC female-male-female, 50 Ω	1	1	1	1
Adapter, BNC female to N male, 50 Ω		1	1	1
Adapter, BNC female to 4 mm Banana Plug	1		1	2
Attenuator, BNC male-female, 50 Ω, 20 dB, 4 GHz, 2 W				1
Feed-Thru Terminator, BNC male-female, 50 Ω , 2 W 1%			1	1

Spectrum Analyzer







Spectrum Analyzer Kits

Three spectrum analyzer kits to choose from. Model CT3739 and CT3740 have the most common coax cables and adapters for use with spectrum analyzers up to 3 GHz. Model CT3741 provides an advanced selection of coaxial adapters, cables and attenuators for higher performance 9 GHz spectrum analyzers. • RoHS (2011/65/EU) compliant

Packaged in clear clamshell blister

Model	СТ3739	СТ3740	CT3741
Description	9-Piece Kit	10-Piece Kit	9-Piece Kit
Typically Used By	Technician	Senior Technician	Engineer
For Spectrum Analyzers up to	3 (GHz	9 GHz
Grade	General	Purpose	Advanced
Impedance		50 Ω	
Components		Kit Contains	
Coaxial Cable, BNC male, 50 Ω, RG-58C/U, Length 100 cm (40")	2	2	1
RF Cable, N male to N male, 50 Ω, 12.4 GHz, Length 100 cm (40")			1
Tee Adapter, BNC female- male-female, 50 Ω	1	1	1
Adapter, BNC female to N male, 50 Ω	1	1	1
Adapter, BNC female to N female, 50 Ω	1	1	
Adapter, BNC female to 4 mm Banana Plug	1	1	1
Adapter, BNC female to SMA male, 50 Ω	1	1	
Adapter, BNC male to N female, 50 Ω			1
Adapter, BNC male to SMA female, 50 Ω	1	1	
Adapter, N female to SMA male, 50 Ω			1
Terminator, BNC male, 50 Ω, +1%, 500 MHz	1	1	1
Attenuator, BNC male to female, 50 Ω, 10 dB, 4 GHz, 2 W		1	
Attenuator, N male to female, 50 Ω			1

Oscilloscope



Oscilloscope Adapter Kits

Three kits containing the most popular and commonly used cables and adapters to connect your oscilloscope with other test instruments or circuits. Model CT3742 is a basic interconnection kit; Model CT3743 includes a 100 MHz switchable 1x/10x oscilloscope probe, and Model CT3744 includes a 500 MHz 10x fixed oscilloscope probe with an enhanced accessory kit.

• IEC 61010-031 rated accessories

- RoHS (2011/65/EU) compliant
- Packaged in clear clamshell blister

Model	СТ3742	СТ3743	СТ3744
Typically Used By	Technician	Senior Technician	Engineer
Description	5-Piece Kit	6-Piece Kit	6-Piece Kit
Grade	Basic	Enhanced	Advanced
Impedance		50 Ω	
Components		Kit Contains	
Coaxial Cable, BNC male, 50 Ω, RG-58C/U, Length 100 cm (40")	1	1	1
Coaxial Cable, BNC male to MiniPro Clips (1 Black, 1 Red), 50 Ω, RG-58C/U, Length 100 cm (40")	1	1	1
Tee Adapter, BNC female-male-female, 50 Ω	1	1	1
Adapter, BNC female to 4 mm Banana Plug	1	1	1
Terminator, BNC male, 50 Ω, ±1%, 500 MHz	1	1	1
Oscilloscope Probe 100 MHz, Switchable x1/x10/R, 1.2 m (CT2674A)		1	
Oscilloscope Probe 500 MHz, Fixed 10x with enhanced probe kit, 1.2 m (CT3288ARA)			1



CT3743

Digital Multimeter



CT2300

Deluxe DMM Kit

Model

- IEC 61010-031 rated accessories
- PVC jacketed lead wire
- Replaceable tip probe, 4 mm banana plug tip and 2 mm smooth tip
- Cap on probe body tip provides CAT III rating
- 0.7 mm stainless steel spring tip probe for fine work
- Extra large alligator clips for electrical work
- RoHS (2011/65/EU) compliant
- Packaged in polybag

Kit Contains

- (2) Modular Probes: (1) Black, (1) Red (CT2268)
- (2) Spring Tip Mini-Probes: (1) Black, (1) Red (CT2665)
- (2) Banana Test Leads, 4 mm Sheath Plug to Right-Angle Sheath Plug,
- PVC Jacket, 100 cm (40"): (1) Black, (1) Red (CT3130)
- (2) Flex Pincer Clips: (1) Black, (1) Red (CT2487)
- (2) Insulated Alligator Clips, Extra Large: (1) Black, (1) Red (CT3286)
- (2) Adapters, 4 mm Banana Plug to Banana Jack: (1) Black, (1) Red (CT3089)
- (2) Adapters, Spade 6 mm to 4 mm Jack: (1) Black, (1) Red (CT2661)

	Rating
Modular Probe Bodies	1,000 V CAT III w/cap, (CAT II w/o), 36 A
Spring Tip Probe Bodies	600 V CAT II, 1 A
Test Leads	1,000 V CAT III, 20 A
Flex Pincer Clips	1,000 V CAT II, 6 A
Extra Large Alligator Clips	1,000 V CAT III / 600 V CAT IV, 36 A
Plug Adapters	<30 VAC / <60 VDC, 10 A
Spade Lugs	<30 VAC / <60 VDC, 36 A



New

General Purpose Handheld DMM Kit

Model

СТ2696С

- IEC 61010-031 rated accessories
- Cap on probe body tip provides CAT III / CAT IV rating
- Sprung hooks snap-lock to probe bodies
- Silicone jacketed lead wire
- Right-angle 4 mm sheath banana plug for hand-held meter connection
- RoHS (2011/65/EU) compliant
- Packaged in clear PVC pouch

Kit Contains

- (2) Probe Bodies, 2 mm Tip w/Safety Cap: (1) Black, (1) Red (CT3975)
 (2) Banana Test Leads, 4 mm Sheath Plug to Right-Angle Sheath Plug,
- Silicone Jacket, 150 cm (60"): (1) Black, (1) Red (CT3754-150) (2) Adapters, Spade 6 mm to 4 mm Jack: (1) Black, (1) Red - (CT2661)
- (2) Sprung Hooks: (1) Black, (1) Red (CT3947)
- (2) Insulated Alligator Clips, Extra Large: (1) Black, (1) Red (CT3286)

Rating	
Probe Bodies	1,000 V CAT III / 600 V CAT IV w/cap, (CAT II w/o), 10 A
Test Leads	1,000 V CAT III, 10 A
Spade Lugs	<30 VAC / <60 VDC, 36 A
Sprung Hooks	300 V CAT II, 3 A
Extra Large Alligator Clips	1,000 V CAT III / 600 V CAT IV, 36 A

Digital Multimeter





Deluxe Electronic DMM Kit

Model

- IEC 61010-031 rated accessories
- Ideal for high-density circuit testing
- Silicone jacketed lead wire
- Cap on probe body tip provides CAT III rating
- 0.7 mm stainless steel spring tip probe for fine work
- RoHS (2011/65/EU) compliant
- Packaged in clear PVC pouch

Kit Contains

CT2622

- (2) Probe Bodies, 4 mm Banana Plug Tip: (1) Black, (1) Red (CT2483)(2) Banana Test Leads, 4 mm Sheath Plug to Right-Angle Sheath Plug,
- Silicone Jacket, 150 cm (60"): (1) Black, (1) Red (CT2484)
- (2) Spring Tip Mini-Probes, 4 mm Jack: (1) Black, (1) Red (CT2665)
- (2) MiniFlex Clips to 4 mm Jacks, Silicone 0.40, 10 cm (4"): (1) Black,
- (1) Red (CT3096) (2) Sprung Hooks: (1) Black, (1) Red - (CT2664)

(2) Sprung hours. (1) Black, (1) Neu - (C12004)	
Rating	
Probe Bodies	1,000 V CAT III w/cap, (CAT II w/o), 36 A
Spring Tip Probe Bodies	600 V CAT II, 1 A
Test Leads	1,000 V CAT III / 600 V CAT IV, 12 A
MiniFlex Clip Leads	<30 VAC / <60 VDC, 1 A
Sprung Hooks	<30 VAC / <60 VDC, 5 A

Deluxe Surface Mount DMM Kit

Model

CT2970

- IEC 61010-031 rated accessories
- 0.7 mm stainless steel spring tip probe for fine work
- Silicone jacketed lead wire
- MiniFlex clips w/rotating pincers
- MicroClip test clips for SMD components
- RoHS (2011/65/EU) compliant
- Packaged in clear PVC pouch

Kit Contains

- (2) Spring Tip Mini-Probes, 4 mm Jack: (1) Black, (1) Red (CT2665)
 (2) Banana Test Leads, 4 mm Sheath Plug to Right-Angle Sheath Plug, Silicone Jacket, 100 cm (40"): (1) Black, (1) Red - (CT3754-100)
- (2) MiniFlex Test Clips w/ .031" Pins: (1) Black, (1) Red (CT3101)
- (2) MicroClip Test Clips w/ .031" Pins: (1) Black, (1) Red (CT3100)
- (2) MicroLeads, 0.031" Jack to 4 mm Jack, Silicone Jacket, 10 cm (4"): (1) Black,

(1) Red - (CT3099)	
Rating	
Spring Tip Probe Bodies	600 V CAT II, 1 A
Test Leads	1,000 V CAT III, 10 A
MiniFlex Test Clips	<30 VAC / <60 VDC, 1 A
MicroClip Test Clips	<30 VAC / <60 VDC, 0.5 A
MicroLeads	<30 VAC / <60 VDC, 2 A

Digital Multimeter





Model

- IEC 61010-031 rated accessories
- Probe bodies accept 4 mm sheath banana plugs
- Cap on probe tip provides CAT III / CAT IV rating
- Standard 2 mm x 19 mm probe tips
- Silicone jacketed lead wire
- Convenient black and red pairs
- RoHS (2011/65/EU) compliant
- Packaged in ploybag

Kit Contains

CT3979-150

- (2) Probe Bodies, 2 mm Tip w/Safety Cap: (1) Black, (1) Red (CT3975)
 (2) Banana Test Leads, 4 mm Sheath Plug to Right-Angle Sheath Plug, Silicone Jacket, 150 cm (60"): (1) Black, (1) Red (CT3754-150)
 (2) Sprung Hooks, (1) Black, (1) Red (CT3947)
- (2) Alligator Clips, (1) Black, (1) Red (CT3943)
- (2) Spade Lugs, (1) Black, (1) Red (CT3945)
- (2) Extended Tips, (1) Black, (1) Red (CT3941)

Rating	
Probe Bodies	1,000 V CAT III / 600 V CAT IV w/cap, (CAT II w/o), 10 A
Test Leads	1,000 V CAT III, 10 A
Sprung Hooks	300 V CAT II, 3 A
Alligator Clips	300 V CAT II, 5 A
Spade Lugs	<30 VAC / <60 VDC, 5 A
Extended Tips	300 V CAT II, 3 A



Handheld DMM Probe Lead Accessory Kit

Model CT3987-120

- IEC 61010-031 rated accessories
- Probe Leads w/ 4 mm right-angle sheath banana plugs
- Cap on probe tip provides CAT III / CAT IV rating
- Standard 2 mm x 19 mm probe tips
- Silicone jacketed lead wire
- Convenient black and red pairs
- RoHS (2011/65/EU) compliant
- Packaged in polybag

Kit Contains	
 (2) Probe Leads, 2 mm Tip w/Safety Cap, 4 mm Right-Angle Sheath Plug, Silicone Jacket, 120 cm (48"): (1) Black, (1) Red - (CT3985-120) (2) Sprung Hooks, (1) Black, (1) Red - (CT3947) (2) Alligator Clips, (1) Black, (1) Red - (CT3943) (2) Spade Lugs, (1) Black, (1) Red - (CT3945) (2) Extended Tips, (1) Black, (1) Red - (CT3941) 	
Rating	
Probe Leads	1,000 V CAT III / 600 V CAT IV w/cap, (CAT II w/o), 10 A
Sprung Hooks	300 V CAT II, 3 A
Alligator Clips	300 V CAT II, 5 A
Spade Lugs	<30 VAC / <60 VDC, 5 A
Extended Tips	300 V CAT II, 3 A

Digital Multimeter



New

Basic Electrical DMM Kit

Model

- IEC 61010-031 rated access
- Silicone jacketed lead wire
- Cap on probe body tip provides CAT III / CAT IV rating

CT3738C

- Alligator clip snap-locks to probe body
- RoHS (2011/65/EU) compliant
- Includes tri-fold nylon pouch

Kit Contains

- (2) Probe Bodies, 2 mm Tip w/Safety Cap: (1) Black, (1) Red (CT3975)
 (2) Banana Test Leads, 4 mm Sheath Plug to Right-Angle Sheath Plug, Silicone
- Jacket, 100 cm (40"): (1) Black, (1) Red (CT3754-100) (2) Insulated standard Alligator Clips w/snap-lock retention: (1) Black,
- (1) Red (CT3943) (1) Tri Fold Nylop Pouch Black (CT2041)

(1) Irl-Fold Nylon Pouch, Bla	ack - (C13041)
Rating	
Probe Bodies	1,000 V CAT III / 600 V CAT IV w/cap, (CAT II w/o), 10 A
Test Leads	1,000 V CAT III, 10 A
Insulated Alligator Clips	300 V CAT II, 5 A

Introductory DMM Probe Body Accessory Kit

Model CT3977-150

- IEC 61010-031 rated accessories
- Probe bodies accept 4 mm sheathed banana plugs
- Standard 2 mm x 19 mm probe tips
- Sprung hooks snap-lock to probe bodies
- Silicone jacketed lead wire
- Cap on probe tip provides CAT III / CAT IV rating
- Convenient black and red pairs
- RoHS (2011/65/EU) compliant
- Packaged in polybag

Kit Contains (2) Probe Bodies, 2 mm Tip w/Safety Cap: (1) Black, (1) Red - (CT3975) (2) Banana Test Leads, 4 mm Sheath Plug to Right-Angle Sheath Plug, Silicone Jacket, 150 cm (60"): (1) Black, (1) Red - (CT3754-150) (2) Sprung Hooks, (1) Black, (1) Red - (CT3947) Rating Probe Bodies 1,000 V CAT III / 600 V CAT IV w/cap, (CAT III w/o), 10 A Test Leads 1,000 V CAT III, 10 A Sprung Hooks 300 V CAT II, 3 A



New

Electrical DMM Kit

Model

CT2621C

- IEC 61010-031 rated accessories
- Cap on probe body tip provides CAT III / CAT IV rating
- Silicone jacketed lead wire
- Extra large alligator clips for electrical work
- RoHS (2011/65/EU) compliant
- Includes tri-fold nylon pouch

Kit Contains

(2) Probe Bodies, 2 mm Tip w/Safety Cap: (1) Black, (1) Red - (CT3975)
(2) Banana Test Leads, 4 mm Sheath Plug to Right-Angle Sheath Plug, Silicone Jacket, 150 cm (60"): (1) Black, (1) Red - (CT3754-150)

- (2) Adapters, Spade 6 mm to 4 mm Jack: (1) Black, (1) Red (CT2661)
- (2) Rigid Alligator Clips: (1) Black, (1) Red (CT2966)
- (2) Insulated Alligator Clips, Extra Large: (1) Black, (1) Red (CT3286)
- (1) Tri-Fold Nylon Pouch, Black (CT3041)

Rating	
Probe Bodies	1,000 V CAT III / 600 V CAT IV w/cap, (CAT II w/o), 10 A
Test Leads	1,000 V CAT III, 10 A
Spade Lugs	<30 VAC / <60 VDC, 36 A
Rigid Alligator Clips	1,000 V CAT III, 20 A
Extra Large Alligator Clips	1,000 V CAT III / 600 V CAT IV, 36 A

Digital Multimeter



Surface Mount

DMM Kit

Model

Test Leads

CT2843

1,000 V CAT III, 12 A

- IEC 61010-031 rated accessories
- Extended probe bodies w/ sharp stainless steel tips
- Silicone jacketed lead wire
- RoHS (2011/65/EU) compliant
- Packaged in polybag

Kit Contains

	 (2) Slim-Line Probe Bodies w/Fine Stainless Steel Tip: (1) Black, (1) Red - (CT2662) (2) Banana Test Leads, 4 mm Sheath Plug to Right-Angle Sheath Plug, Silicone Jacket, 150 cm (60"): (1) Black, (1) Red - (CT2484) 	
	Rating	
	Extended Probe Bodies	1.000 V CAT IV. 16 A



CT2299

Basic DMM Kit

Model

- IEC 61010-031 rated accessories
- PVC jacketed lead wire
- Replaceable tip probe, 4 mm banana plug tip and 2 mm smooth tip
- Cap on probe body tip provides CAT III rating
- RoHS (2011/65/EU) compliant
- Packaged in polybag

Kit Contains	
 (2) Modular Probes: (1) Black, (1) Red - (CT2268) (2) Banana Test Leads, 4 mm Sheath Plug to Right-Angle Sheath Plug, PVC Jacket, 100 cm (40"): (1) Black, (1) Red - (CT3130) (2) Flex Pincer Clips: (1) Black, (1) Red - (CT2487) 	
Rating	
Probe Bodies	1,000 V CAT III w/cap, (CAT II w/o), 36 A
Test Leads	1,000 V CAT III, 20 A

1,000 V CAT II, 6 A

- IEC 61010-031 rated accessories
- Probe leads w/ 4 mm straight sheath banana plugs
- Cap on probe tip provides CAT III / CAT IV rating
- Standard 2 mm x 19 mm probe tips
- Silicone jacketed lead wire
- Convenient black and red pairs
- RoHS (2011/65/EU) compliant
- Packaged in polybag

Kit Contains

- (2) Probe Leads, 2 mm Tip w/Safety Cap, 4 mm Stright Sheath Plug, Silicone Jacket, 120 cm (48"): (1) Black, (1) Red - (CT3981-120) (2) Sprung Hooks, (1) Black, (1) Red - (CT3947)
- (2) Alligator Clips, (1) Black, (1) Red (CT3943)
- (2) Spade Lugs, (1) Black, (1) Red (CT3945)
- (2) Extended Tips, (1) Black, (1) Red (CT3941)

Rating	
Probe Leads	1,000 V CAT III / 600 V CAT IV w/cap, (CAT II w/o), 10 A
Sprung Hooks	300 V CAT II, 3 A
Alligator Clips	300 V CAT II, 5 A
Spade Lugs	<30 VAC / <60 VDC, 5 A
Extended Tips	300 V CAT II, 3 A

Bench DMM

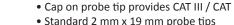
Model

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Probe Lead Accessory Kit CT3983-120

Flex Pincer Clips



Digital Multimeter



New

General Purpose Bench DMM Kit

Model

- IEC 61010-031 rated accessories
- Cap on probe body tip provides CAT III / CAT IV rating
- Sprung hooks snap-lock to probe bodies
- Silicone jacketed lead wire
- Straight 4 mm sheath banana plugs for bench meters
- Extra large alligator clips
- RoHS (2011/65/EU) compliant
- Packaged in clear PVC pouch

Kit Contains

CT2695C

- (2) Probe Bodies, 2 mm Tip w/Safety Cap: (1) Black, (1) Red (CT3975)
 (2) Banana Test Leads, 4 mm Sheath Plug to Sheath Plug, Silicone Jacket, 150 cm (60"): (1) Black, (1) Red (CT3752-150)
- (2) Adapters, Spade 6 mm to 4 mm Jack: (1) Black, (1) Red (CT2661)
- (2) Sprung Hooks: (1) Black, (1) Red (CT3947)
- (2) Insulated Alligator Clips, Extra Large: (1) Black, (1) Red (CT3286)

Rating		
Probe Bodies	ies 1,000 V CAT III / 600 V CAT IV w/cap, (CAT II w/o), 10 A	
Test Leads	1,000 V CAT III, 10 A	
Spade Lugs	<30 VAC / <60 VDC, 36 A	
Sprung Hooks	300 V CAT II, 3 A	
Extra Large Alligator Clips 1,000 V CAT III / 600 V CAT IV, 36 A		



Deluxe Bench DMM Kit

Model

СТ3377

- IEC 61010-031 rated accessories
- 0.7 mm stainless steel spring tip probe for fine work
- Silicone jacketed lead wire
- Extra test leads for meter calibration process
- SMD test tweezer for detailed work
- RoHS (2011/65/EU) compliant
- Packaged in clear clamshell blister

Kit Contains

- (2) Spring Tip Mini-Probes, 4 mm Jack: (1) Black, (1) Red (CT2665) (4) Banana Test Leads, 4 mm Sheath Plug to Sheath Plug, Silicone Jacket,
- 100 cm (40"): (2) Black, (2) Red (CT3132)
- (1) Adapter, Insulated BNC male to 4 mm Safety Jack (CT2412)
- (2) Adapters, 4 mm Banana Plug to Jack: (1) Black, (1) Red (CT3089)
- (2) MiniFlex Clips to 4 mm Jacks, Silicone Jacket, 10 cm (4"): (1) Black, (1) Red - (CT3096)
- (2) Adapters, Spade 6 mm to 4 mm Jack: (1) Black, (1) Red (CT2661)
- (2) Leads, MiniPro Clips to 4 mm Jacks, PVC Jacket, 10 cm (4"): (1) Black,(1) Red (CT3280)

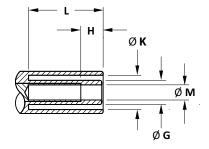
(1) Tweezer Test Lead Set, 4 mm Plug - (CT2301)

Rating		
Spring Tip Probe Bodies	be Bodies 600 V CAT II, 1 A	
Test Leads	1,000 V CAT III / 600 V CAT IV, 12 A	
BNC Adapter	500 V CAT 0, 3 A	
Plug Adapters	<30 VAC / <60 VDC, 10 A	
MiniFlex Clip Leads	<30 VAC / <60 VDC, 1 A	
Spade Lugs	<30 VAC / <60 VDC, 36 A	
MiniPro Clip Leads	<30 VAC / <60 VDC, 6 A	
Tweezer Test Lead Set	400 Vrms, 2 A	

Banana Plug 101

Since its introduction over 90 years ago, the banana plug connector has become the standard single wire connection device for electronic and electrical test equipment. The plug has evolved into a high quality copper alloy contact spring that plugs into a 4 mm (.157") diameter banana jack (socket). The standard spacing for two banana jacks side-by-side is 19.06 mm (.75"). With the introduction of safety standards in the 1980's, banana plugs acquired a cover sheath over the exposed metal contact to enhance user protection. The current international safety standard, IEC 61010-031, *Safety requirements for electrical equipment for measurement, control and lab use – Part 031: Safety requirements for hand-held probe assemblies for electrical measurement and test*, defines dimensions of sheath banana plugs for measurement categories II, III or IV up to 1,000 V.

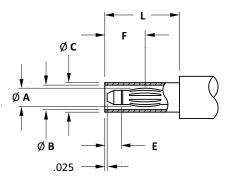
General dimensions for 4 mm banana plugs and jacks:



4 mm BANANA JACK

Dimensions Key:

 $\begin{array}{l} \textbf{A} = \emptyset \ .154 \pm .002 \ (\emptyset \ 3.90 \ mm \pm .05 \ mm) - Compressed \\ \textbf{B} \geq \emptyset \ .26 \ (\emptyset \ 6.6 \ mm) \\ \textbf{C} \leq \emptyset \ .31 \ mm \ (\emptyset \ 7.9 \ mm) \\ .10 \leq \textbf{E} \leq .24 \ (2.6 \ mm \leq \textbf{E} \leq 6 \ mm) \\ \textbf{F} \leq .47 \ (12 \ mm) - Center \ of \ contact \ point \\ \end{array}$



4 mm BANANA PLUG

 $\begin{aligned} & \mathbf{G} \leq \emptyset .25 \ (\emptyset \ 6.4 \ \text{mm}) \\ .16 \leq \mathbf{H} \leq .24 \ (4 \ \text{mm} \leq \mathbf{H} \leq 6 \ \text{mm}) \\ & \mathbf{K} \geq \emptyset .32 \ (\emptyset \ 8.1 \ \text{mm}) \\ & \mathbf{L} \geq .79 \ (20 \ \text{mm}) \\ & \mathbf{M} = \emptyset .157 \ \pm .002 \ (\emptyset \ 4 \ \text{mm} \pm .05 \ \text{mm}) \end{aligned}$

- For E and H, minimum values with plastic tip, other wise spacing shall be at least .10" (2.6 mm)

- Tolerance on dimensions not otherwise noted: ± .004 (0.1 mm)

Measurement Categories:

(Per IEC 61010-031)

Measurement categories are based on location as related to the mains supply where measurement can be made.

0 (no category) –	circuits that are not directly connected to mains. Examples are automobiles or other battery operated circuits or devices.
Category II – (CAT II)	applicable to circuits connected directly to sockets outlets of the low-voltage mains. Examples are consumer appliances, power tools, or the consumer side of socket outlets. Typical short circuit currents: < 10 kA
Category III – (CAT III)	applicable to circuits connected to the distribution part of a building's low-voltage mains. Examples are power distribution boards, solar cell power assemblies, circuit boxes, circuit breakers, switches and industrial equipment. Typical short circuit currents: > 10 kA
Category IV – (CAT IV)	applicable to circuits connected at the source of the building's low-voltage mains. Examples are measurements on devices installed before the main fuse or circuit breaker in a building. Typical short circuit currents: > 50 kA These are high energy circuits so great precautions must be taken while working with these.

The measurement category of a combination of probe, lead and or accessory is the lower of their respective category ratings.

Within the scope of IEC 61010-031 there are four defined probe assembly types that include banana plugs. The types are A, B, C & D with banana plugs falling under types A and D.

Type A: Non-attenuating assemblies rated for direct connection to voltages exceeding 30 Vrms / 42.4 Vpeak / 60 VDC.

Type D: Non-attenuating assemblies rated for direct connection to voltages not exceeding 30 Vrms / 42.4 Vpeak / 60 VDC.

Below are descriptions of the most common banana plugs.

Banana Plug (Type D)

Features an exposed compliant contact spring and an insulation housing. It plugs into both standard and safety 4 mm banana jacks. Although it can operate at much high voltages, the plug is not recommended for handheld use above 30 VAC / 60 VDC (IEC 61010-031) as the exposed contact is capable of rendering an electric shock.

Stacking Banana Plug (Type D)

Has a banana plug on one end and a banana jack (receptacle) on the other end of its insulated housing. This allows another banana plug to share the same test point.

Sheath Banana Plug (Type A)

Also known as a shrouded, sleeved or safety banana plug. It features a fixed protective sheath over the spring contact that prevents unintentional contact. This plug only fits into safety banana jacks, which feature a recessed ring around their connection jack. This plug is recommended for all CAT III and IV applications.

Stacking Sheath Banana Plug (Type A)

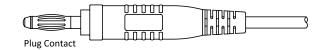
Similar to the stacking banana plug, the plug features a sheath banana plug on one end and a safety banana jack on the other. Recommended for all CAT III and IV applications.

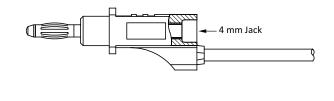
Retractable Sheath Banana Plugs (Type A)

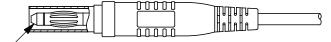
Feature a spring-loaded protective plastic sheath that prevents unintentional contact yet slides back when engaging a banana jack. An insulator tip on the plug's contact provides further user protection. Retractable sheath banana plugs are for CAT II applications.

Stacking Retractable Sheath Banana Plug (Type A)

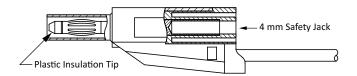
As with the other stacking banana plugs, it features a plug and a female jack in its housing. But, the retractable sleeve over the plug makes it one of the most versatile banana plugs available, usable with all types of banana jacks. Retractable sheath banana plugs are for CAT II applications.

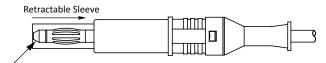




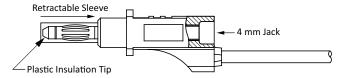


Plastic Insulation Tip





Plastic Insulation Tip



• IEC is a registered trademark of the International Electrotechnical Commission.

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