



The CLIFF range of test lead and instrument parts is made from high grade engineering plastics and precision metal parts. The parts comply with EN61010 Sec 2-031 where applicable. Parts are available for up to 10KV with various CAT ratings. All products conform to CE norms and comply with RoHS / REACH requirements.

The range comprises :-

- 4mm. Ø test plugs and chassis sockets
- 2mm. Ø test plugs and chassis sockets
- Unfused (cable end) test prods. 1KV
- Fused (cable end) test prods. 1+KV
- Crocodile clips. Insulated and non insulated
- 'Standard' assembled test leads
- Custom assembled test lead sets

Contact our Sales or Engineering when specifying or querying your needs.

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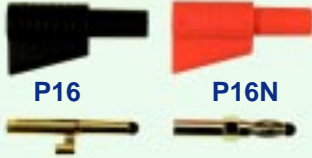




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## Ø2mm. and Ø4mm. Plugs for cable connection

We have 10 basic models with numerous options / variations.

		RATED V	RATED CAT
	<b>P18</b> Unshrouded 2mm. plug. Supplied unassembled. Mates with S18S	30VAC 60VDC	10A MAX
	<b>P18S</b> Shrouded 2mm. plug. Supplied unassembled. Mates with S18.	600	10A II
	<b>P14</b> <b>P15</b> Unshrouded 4mm. plugs, supplied unassembled.	30VAC 60VDC	—
	<b>P14X</b> 4mm. shrouded plug (can be with or without rating) Nickel plated.	— 1000	— III
	<b>P14XAS</b> 4mm. plug with retractable shroud and cable restraint collet. Nickel plated.	1000	II
	<b>P14XB</b> 4mm. fixed shroud plug with cable restraint collet. Nickel plated.	1000	III
	<b>P149X</b> 4mm. fixed shroud plug 90° with cable restraint collet. Tin / Nickel plated.	1000	III
	<b>P16</b> - 4mm. shrouded stackable plug with pressed metal contact. Gold plated. <b>P16N</b> - 4mm. shrouded stackable plug with lantern style contact. Screw connection. Nickel plated.	300 600	II II
	<b>P17</b> - 4mm. unshrouded stackable plug with pressed metal contact. Gold plated. <b>P17N</b> - 4mm. unshrouded stackable plug with lantern style contact. Screw connection. Ni plated.	— —	— —
	<b>P20</b> 4mm. 5 /10 or 12KV rated plugs for HV applications. Not intended for mains use, so no CAT rating. Special connector for HV testing.	5000 10000 12000	—

Please discuss complex plug rating issues with our Engineering Dept.

Our range of chassis sockets are made from high grade engineering plastics. Metal parts are precision machined and nickel, silver or gold plated depending on which model.

The 4mm. models have a variety of tag options. The most professional models are insert moulded. Mounting hardware is supplied or is available to order.

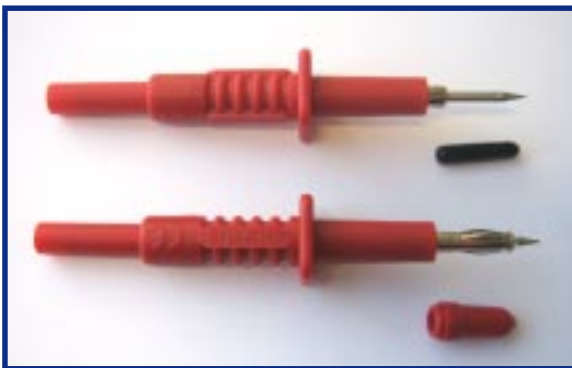
		RATED V	RATED I	CAT
	<b>S18</b> 2mm. socket unshrouded. Mates with plug P18. Gold plated.	600	10A.	III
	<b>S14</b> 4mm. socket unshrouded. Mates with most unshrouded plugs. Nickel plated.	30VAC 60VDC	10A.	—
	<b>S16</b> 4mm. socket shrouded. Mates with shrouded or unshrouded plugs. Gold plated.	1000	30A.	
	<b>S16N</b> 4mm. shrouded socket. Mates with shrouded or unshrouded plugs. Gold plated. There are a number of terminal options for S16N :- <ul style="list-style-type: none"> <li>• solder tag</li> <li>• 4.8mm. faston / solder tag</li> <li>• 6.3mm. faston / solder tag</li> <li>• PCB pin</li> <li>• M4 threaded stud</li> <li>• 90° PCB mount</li> </ul>	1000	24A. 24A. 32A. 24A. 32A. 24A.	III

Tests prods are designed for connection to cable by soldering or crimping - depending on the metal inserts used. Crimping is the preferred type of connection, but it requires special tooling, so most customers buy prods ready assembled onto cable. These products are rated at 1KV CAT III. Ratings of 2, 3 or 4KV are possible on TPR/2 depending on construction used and EN61010 norms applied. Standard colours are Black and Red. Other colours subject to quantity.



**TPR/1** - Test probe. 1KV CAT III with tip cover fitted, CAT II without, for direct cable connection. Unfused. Supplied with removeable tip cover.

**TPR/1C** - As TPR/1 but supplied unassembled, with collet cable clamp.



**TPR/1S** - Spiked test probe. Unfused. Has 4mm. shrouded socket connection, so converts 4mm. shrouded plug into a test prod lead. 1KV CAT III with cover fitted, CAT II without,

**TPR/1SL** - Lantern contact test probe. Unfused. Has 4mm. shrouded socket connection, so converts 4mm. shrouded plug into a test prod lead. 1KV CAT III with tip cover fitted, CAT II without,



### **TPR/2**

Fused test probe 1KV CAT III, for either direct cable connection or 4mm socket connection.

### **TPR/2S**

As TPR/2 but with retractable spring loaded shroud, exposing 4mm lantern probe.



### **TPR/2F**

4KV CAT II version of TPR/2.

### **TPR/2FS**

As TPR/2F but with spring loaded retractable shroud.



### **TPR/2 CROC CLIP ATTACHMENT**

This is for converting TPR/2 into a fused croc clips for direct cable connection. 600V CAT III / 1KV CAT II .



## Crocodile Clips Insulated and Non Insulated

Our range of durable crocodile clips are made from high grade engineering plastics, with tin or nickel plated metal parts. They comply with EN61010 / CE. All clips open to min. 25mm.



CRC/01

Basic rating 600V CAT III (1000V CAT II)  
Available in black, red, blue, green, yellow and green / yellow.  
4mm socket at rear accepts shrouded plug or unshrouded probe.  
Tongue at front to catch small wires or conductor pins.



CRC/01X

Extended rear shroud version of CRC/01.  
When used, enables highest rating to be maintained. Curved jaws give good grip on busbars.



CRC/02

Miniature croc. Used in applications where access is restricted, especially telecoms situations. 4mm socket at rear accepts shrouded or unshrouded plugs.



CRC/M

All metal uninsulated croc. Generally used for earth testing.  
Curved jaws give good grip on busbars. A PVC boot in black or red is available as an option.



CRC/BON

"Bed of Nails" croc with insulation piercing point. Mostly used in USA telecoms testing. Optionally available with just the piercing point. A range of coloured PVC boots is available.

Cliff test leads are semi custom made to order. We can combine any of the components shown in this brochure to produce leads to suit most applications. We have 3 kinds of standard double insulated cable. Rated 1KV (PVC), 5KV and 12KV (SILICONE). Available in colours Black, Red, Green, Blue and Yellow.



### Special leadsets and assemblies

In our UK and China factories, we make a large number of customised leads and assemblies. These can combine standard power plugs with test leads, custom made instrument plugs, and other customised connectors. We can insert mould cables into special configurations. We can proof test up to 20KV. Testing 100% when needed. Since many test leads are safety critical parts, we aim for zero defects in all our test leads production. We comply with the relevant specifications. All parts are CE and RoHS complaint. Contact our UK Engineering Dept. for custom leads.



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