

## Side Cutters and Tip Cutters

### Series 600 Micro

- Miniature cutters
- Offers a wide variety of head shapes for access in difficult to reach areas
- Suitable for SMD and leads (670EP, 670EPF)
- Made from high grade tool steel with cutting edges hardened to 63-65HRC
- Non reflecting surface, ESD safe, resharpenable





## Series 600 Micro



- A = length of cutting edges
- B = head width
- C = head thickness
- D = head length



**Tip cutter**  
Straight short  
relieved head

**Tip cutter**  
Pointed  
relieved head

**Side cutter**  
Tapered head

**Side cutter**  
Oval head



← Visibility and accessibility

→ Robustness, high cutting capacity

### Side cutter – oval head



110 mm/4.331 Inch  
 48 g/1.69 oz.

- This is the most widely used head shape.
- Fits for all cutting applications where easy access is given
- It is robust and size for size offers the highest cutting capacity.

Model	Cut	Dimensions in mm/Inch				Max. cutting capability in mm/Inch Diameter		
		A	B	C	D	Hard wire	Medium hardness	Copper wire
612N	Semi-flush	9	9	6	15	0.5	0.8	1.3
		.354	.354	.236	.590	.019	.031	.051
622N	Flush	9	9	6	15	–	0.8	1.3
		.354	.354	.236	.590		.031	.051
632N	Super full flush	9	9	6	15	–	0.7	1.3
		.354	.354	.236	.590		.027	.051

# Side Cutters and Tip Cutters


## Series 600 Micro

### Side cutter – tapered head



Length **110 mm/4.331 Inch**  
Weight **48 g/1.69 oz**

- The jaws of the cutter have straight edges and taper to a point.
- This head shape allows access to difficult to reach areas but reduces the cutting capacity in comparison to the same size oval head cutter.





Model	Cut	Dimensions in mm/Inch				Max. cutting capability in mm/Inch Diameter	
		A	B	C	D	Medium hardness	Copper wire
<b>622NA</b>	 Flush	9	9	6	15	0.7	1.0
		.354	.354	.236	.590	.027	.039

### Tip cutter – pointed relieved head



Length **110 mm/4.331 Inch**  
Weight **48 g/1.69 oz.**

- This is the narrowest head shape.
- The underside is relieved and facilitates optimum access even to extremely hard-to-reach areas.

Model	Cut	Dimensions in mm/Inch				Max. cutting capability in mm/Inch Diameter	
		A	B	C	D	Medium hardness	Copper wire
<b>622NB</b>	 Flush	9	9	6	15	0.6	0.8
		.354	.354	.236	.590	.023	.031
<b>676E</b>	 Flush	9	9	6	15	Model same as 622NB, but with short, robust head	
<b>776E</b>	 Super full flush	9	9	6	15	0.6	0.8
		.354	.354	.236	.590	.023	.031
<b>632NCF</b>	 Super full flush	9	9	6	15	For soft material such as small silicone tubes, miniature rubber seals or for cutting soft synthetic parts	
		.354	.354	.236	.590		

## Series 600 Micro



### Tip cutter – straight short relieved head



**110 mm/4.331 Inch**  
**48 g/1.69 oz.**

■ Suitable for cutting SMD and micro-package contacts.

Model	Cut	Dimensions in mm/Inch				Max. cutting capability in mm/Inch Diameter	
		A	B	C	D	Medium hardness	Copper wire
670E	 Flush	9	9	6	18	0.5	0.8
		.354	.354	.236	.709	.019	.031
670EP	 Flush	9	9	6	18	0.4	0.6
		.354	.354	.236	.709	.015	.023
						High-precision working on SMD and micro-package contacts up to 0.25 mm/.010 Inch	
670EPF*	 Flush	9	9	6	18	Model same as 670EP, but smaller version <b>only</b> for micro pitches under 0.5 mm/.019 Inch (see also P. 40)	
		.354	.354	.236	.709		