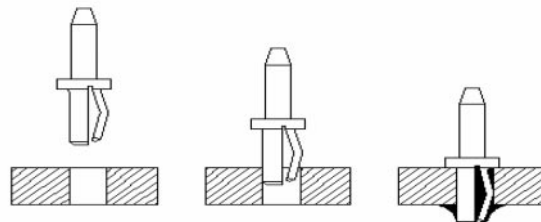


Features

- Unique kinked retention mechanism retains pin in PCB plated through hole (PTH) prior to soldering.
- Low insertion force avoids damage to plating of PTH during assembly.
- Slotted design enhances solderability and reliability.
- Family optimised for a wide range of PTH diameters
0.508 mm (0.020") - 1.524 mm (0.060").
- Capable of hand and semi-automatic machine insertion.
- Available in a wide range of styles and finishes for alternative applications.
- Vibratory bowl fed semi-automatic insertion machines available, details on request.

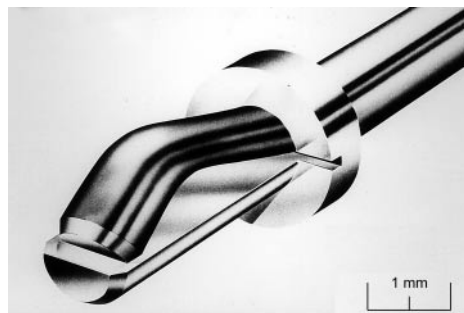


Approvals

- Approved to BS 9000 (BS 9525 F0050)

Application

- Self retaining compliant pin for plated through holes in multilayer printed circuit boards.



Kinky Pins

Kinky Pins were designed specifically to meet the demands of plated through hole (PTH) technology introduced in printed circuit boards. They have been used in a wide range of commercial and military applications including sub-sea fibre optic repeaters, radars and multi-function LCD cockpit displays in military fast jets. They tend to be used with flexi-circuit termination and as solder terminals, connectors and in multiway pin arrays.

They use a unique kinked retention mechanism which gives a fit in the PTH that is unsurpassed. The kinked leg provides a tight non-aggressive spring loaded fit whilst the straight leg ensures the pin is kept perpendicular to the PCB prior to soldering.

This Kinky Pin mechanism gives an additional benefit which is a key part of its operation. The slotted design induces wicking of the solder up into the kink and up to the flange which means that the solder joint is solid and free of air pockets. This reduces the possibility of dry joints developing and the life of the solder joint is therefore increased. In our opinion and that of our customers, there is no better PTH solder-in terminal!

The Kinky Pin range is comprehensive and our in-house high precision machining capabilities mean that we have the ability to manufacture bespoke versions on request. Standard finishes are tin lead and gold; other finishes are available on request.

Prefix: 020/-
Mounting Hole Diameter:
 0.52 mm (0.020") - 0.68 mm (0.027")
Min. Pitch Using Assembly Tool:
 2.5 mm (0.098")
Shoulder Diameter A:
 1.0 mm (0.039")

Prefix: 028/-
Mounting Hole Diameter:
 0.68 mm (0.027") - 0.84 mm (0.033")
Min. Pitch Using Assembly Tool:
 2.5 mm (0.098")
Shoulder Diameter A:
 1.6 mm (0.063")

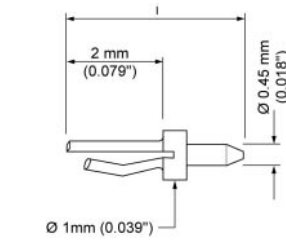
Prefix: 030/-
Mounting Hole Diameter:
 0.81 mm (0.032") - 0.96 mm (0.038")
Min. Pitch Using Assembly Tool:
 2.5 mm (0.098")
Shoulder Diameter A:
 1.6 mm (0.063")

Prefix: 040/-
Mounting Hole Diameter:
 0.96 mm (0.038") - 1.12 mm (0.044")
Min. Pitch Using Assembly Tool:
 2.5 mm (0.098")
Shoulder Diameter A:
 1.6 mm (0.063")

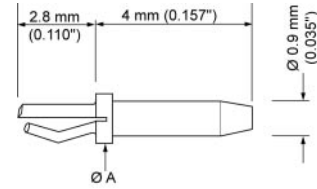
Prefix: 050/-
Mounting Hole Diameter:
 1.21 mm (0.048") - 1.37 mm (0.054")
Min. Pitch Using Assembly Tool:
 3.0 mm (0.118")
Shoulder Diameter A:
 2.4 mm (0.094")

Prefix: 060/-
Mounting Hole Diameter:
 1.50 mm (0.059") - 1.65 mm (0.065")
Min. Pitch Using Assembly Tool:
 3.0 mm (0.118")
Shoulder Diameter A:
 2.4 mm (0.094")

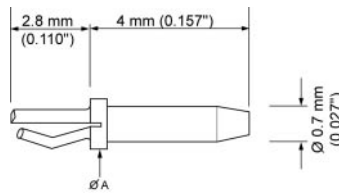
Kinky Pin Test Points



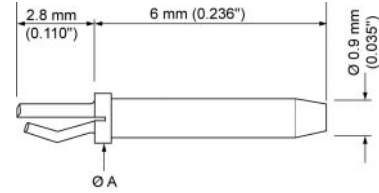
020/C/KP2 [l = 3.7 mm (0.146")]
020/PT/KP2 [l = 6.1 mm (0.240")]
020/PT/KP2/L [l = 7.3 mm (0.287")]



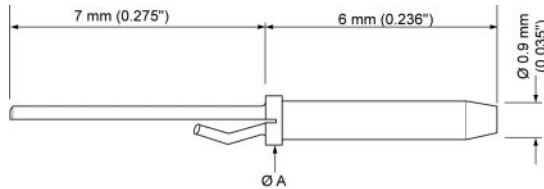
028/30P/KP2
030/30P/KP2
040/30P/KP2
050/30P/KP2
060/30P/KP2



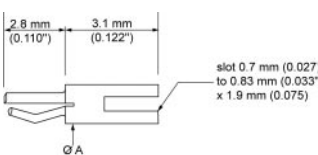
028/30P/LA/KP2
030/30P/LA/KP2
040/30P/LA/KP2
050/30P/LA/KP2
060/30P/LA/KP2



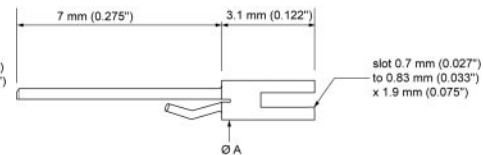
028/30P/KP2/L
030/30P/KP2/L
040/30P/KP2/L
050/30P/KP2/L
060/30P/KP2/L



040/LT/30P/KP2/L
050/LT/30P/KP2/L
060/LT/30P/KP2/L



028/T/KP2
030/T/KP2
040/T/KP2
050/T/KP2
060/T/KP2



040/LT/T/KP2
050/LT/T/KP2
060/LT/T/KP2

Prefix: 028/-

Mounting Hole Diameter:
0.68 mm (0.027") - 0.84 mm (0.033")
Min. Pitch Using Assembly Tool:
2.5 mm (0.098")
Shoulder Diameter A:
1.6 mm (0.063")

Prefix: 030/-

Mounting Hole Diameter:
0.81 mm (0.032") - 0.96 mm (0.038")
Min. Pitch Using Assembly Tool:
2.5 mm (0.098")
Shoulder Diameter A:
1.6 mm (0.063")

Prefix: 040/-

Mounting Hole Diameter:
0.96 mm (0.038") - 1.12 mm (0.044")
Min. Pitch Using Assembly Tool:
2.5 mm (0.098")
Shoulder Diameter A:
1.6 mm (0.063")

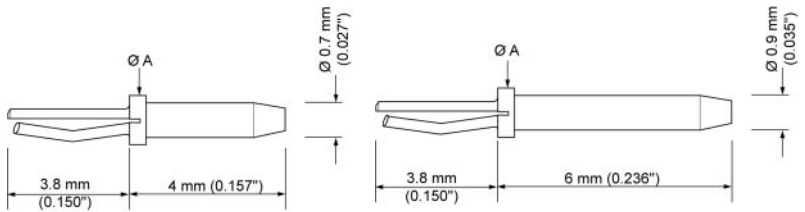
Prefix: 050/-

Mounting Hole Diameter:
1.21 mm (0.048") - 1.37 mm (0.054")
Min. Pitch Using Assembly Tool:
3.0 mm (0.118")
Shoulder Diameter A:
2.4 mm (0.094)

Prefix: 060/-

Mounting Hole Diameter:
1.50 mm (0.059") - 1.65 mm (0.065")
Min. Pitch Using Assembly Tool:
3.0 mm (0.118")
Shoulder Diameter A:
2.4 mm (0.094)

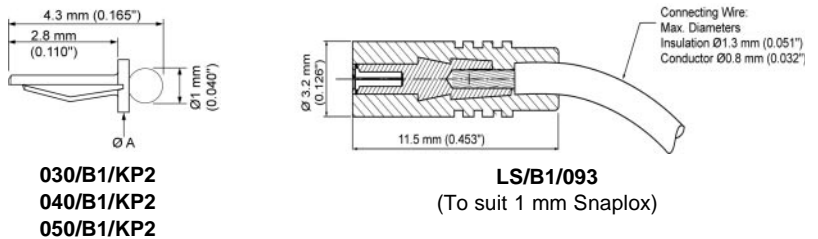
Kinky Pin Test Points



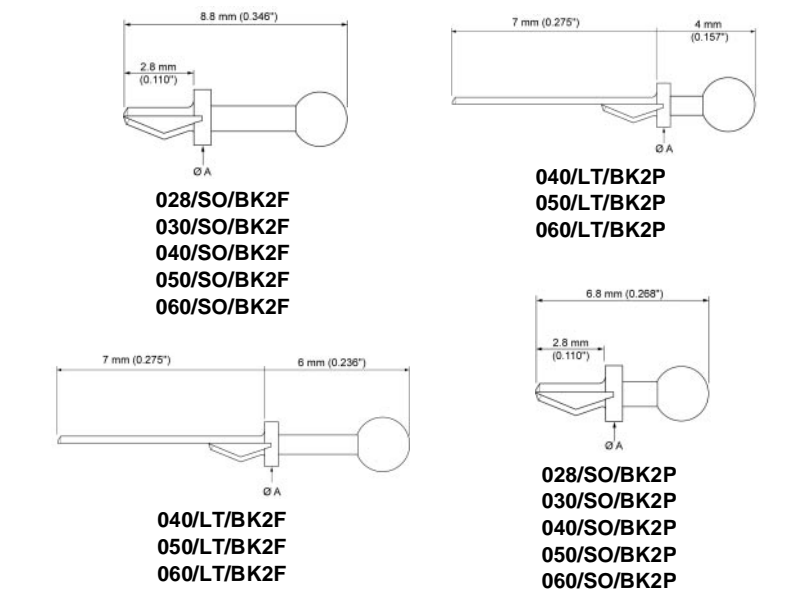
028/10P/30P/LA/KP2
030/10P/30P/LA/KP2
040/10P/30P/LA/KP2
050/10P/30P/LA/KP2
060/10P/30P/LA/KP2

028/10P/30P/KP2/L
030/10P/30P/KP2/L
040/10P/30P/KP2/L
050/10P/30P/KP2/L
060/10P/30P/KP2/L

**1 mm Snaplox Kinky-Pins
(To Suit Socket Type Number LS/B1/093)**



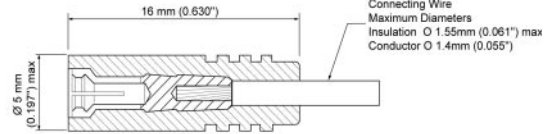
**2 mm Snaplox Kinky-Pins
(To Suit Socket Type Number LS/B2/156)**



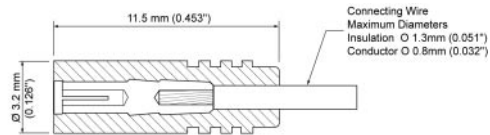
Assembly Tools

-/30P/KP2, -/30P/KP2/L,
-/LT/30P/KP2/L:
AT1/KP1
(028 - 040)/T/KP2, -/LT/T/KP2,
-/-/BK2F, -/-/BK2P:
AT1/KP2
-/10P/30P/KP2/L, (050-060)/T/KP2:
AT1/KP3
-/30P/LA/KP2, -/10P/30P/LA/KP2:
AT1/KP4

Socket



LS/B2/156
(To suit all 2 mm Snaplox)



30/LS/093
(To suit -/30P/KP2 AND -/30P/KP2/L))

Materials

Pin		Copper alloy
Sockets	Contact Insulation	Brass High dispersion grade PTFE
Finishes:		
Pin	Standard Options	Tin Lead Gold (standard on Snaplox Kinky Pins)
Socket	Standard Options	Silver Gold

Characteristics

Contact Resistance (with socket)	less than 5 millohms
Current for 10°C Rise Above Ambient	7 A
Climatic Category	- 55 to +125 °C
Solderability	Exceeds Requirements of BS 2011 (IEC 68) Test T

Assembly Tools

Component Type Number	Tool Number
-/30P/KP2 -/30P/KP2/L -/LT/30P/KP2/L	AT1/KP1
(028 - 040) /T/KP2 -/LT/T/KP2 -/-/BK2F -/-/BK2P	AT1/KP2
-/10P/30P/KP2/L (050 - 060) /T/KP2	AT1/KP3
-/30P/LA/KP2 -/10P/30P/LA/KP2	AT1/KP4

Mounting Details and Shoulder Diameter

Mounting Details : Minimum Board Thickness 1.4 mm (0.055") 0.9 mm (0.036") for 020/- and 2.36 mm (0.093") for -/10P			
Prefix No	Mounting Hole Dia. After Through Plating	Min. Pitch Using Assembly Tool	ØA
020/-	0.52 mm (0.020") - 0.68 mm (0.027")	2.5 mm (0.098")	1.0 mm (0.039")
028/-	0.68 mm (0.027") - 0.84 mm (0.033")	2.5 mm (0.098")	1.6 mm (0.063")
030/-	0.81 mm (0.032") - 0.96 mm (0.038")	2.5 mm (0.098")	1.6 mm (0.063")
040/-	0.96 mm (0.038") - 1.12 mm (0.044")	2.5 mm (0.098")	1.6 mm (0.063")
050/-	1.21 mm (0.048") - 1.37 mm (0.054")	3.0 mm (0.118")	2.4 mm (0.094")
060/-	1.50 mm (0.059") - 1.65 mm (0.065")	3.0 mm (0.118")	2.4 mm (0.094")