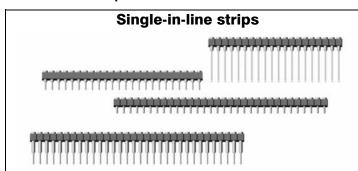
### SIB/DIS/TIS - Series

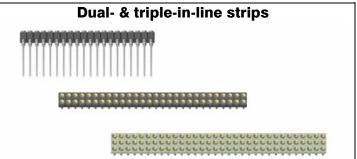
**Socket Strips** 

2,54mm pitch





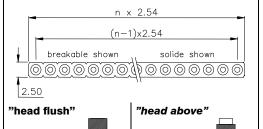




### SIB Series

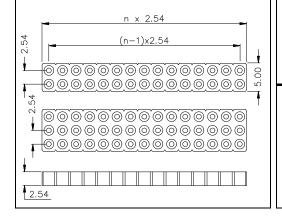
single-in-line Strips breakable and solid insulator available

Unless otherwise specifically requested, the strips will be delivered either in solid or breakable plastic depending on availability of the insulator bodies.



### **DIS & TIS Series**

dual and triple row 2,54mm grid



### **SIB Series**

Standard "head flush"

### SIB-1xx-Fxxx-xx

Alternative: "head above"

### SIB-1xx-Sxxx-xx

Number of contacts standard breakable sizes

### 20; 32 and 40

Number of contacts either breakable or solid available

from **02** to **40** 

### **DIS Series**

### **DIS-2xx-Fxxx-xx**

Number of contacts available

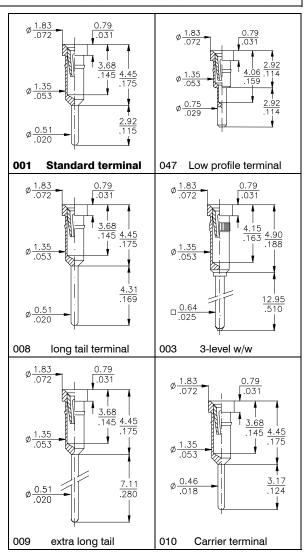
from **04** to **80** 

### **TIS Series**

#### TIS-3xx-Exxx-xx

Number of contacts available

from 06 to 96



### **Strips**

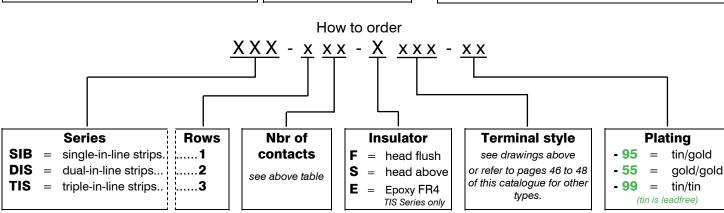
Other lengths & pin-outs available on request.

### **Specifications**

refer to page 49 of this catalogue

### Terminals

For other terminal styles please refer to the pages 46 to 48 of this catalogue or contact your closest sales office.



### SIB/DIS/TIS - Series

# **Board Stacker Strips**

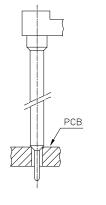
2,54mm pitch





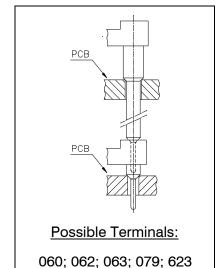


### **Application Examples**



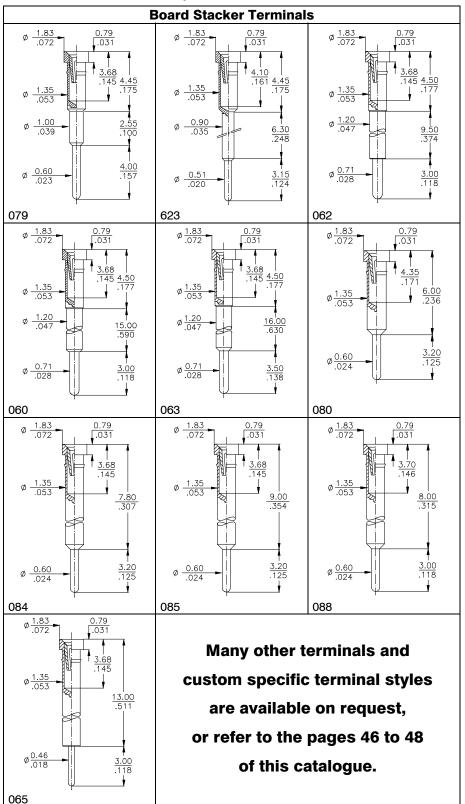
### Possible Terminals:

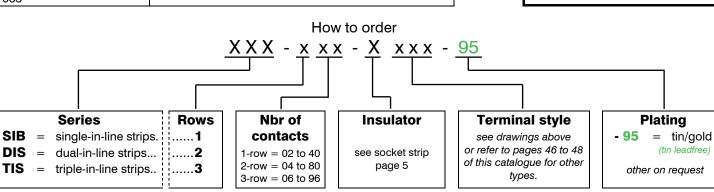
060; 062; 063; 065; 079 080; 084; 085; 088; 623



### **Specifications**

See page 49 of this catalogue

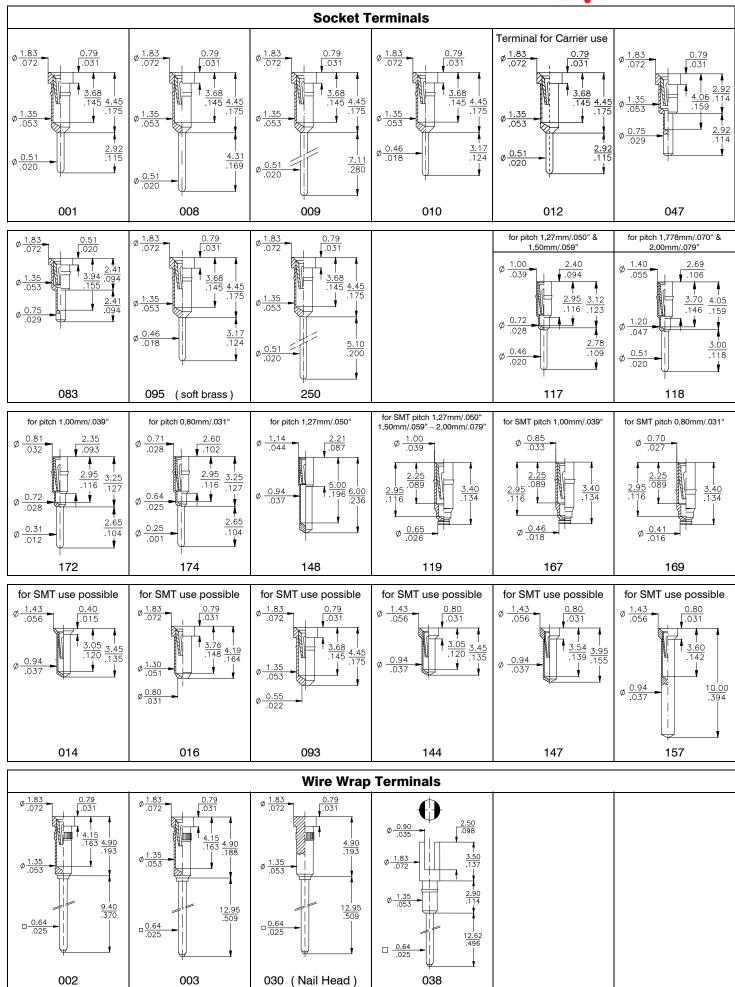




# **Terminals**



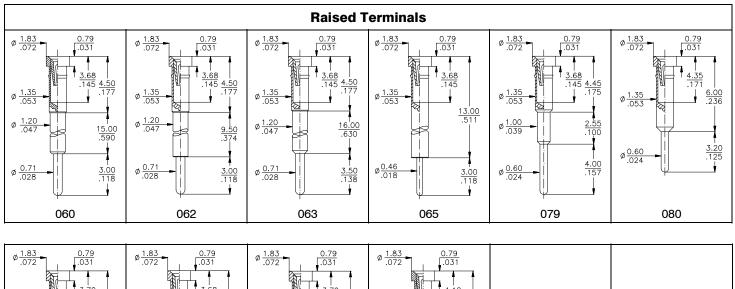


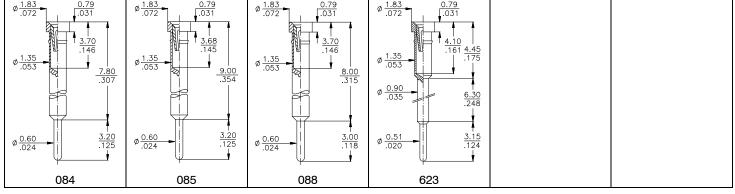


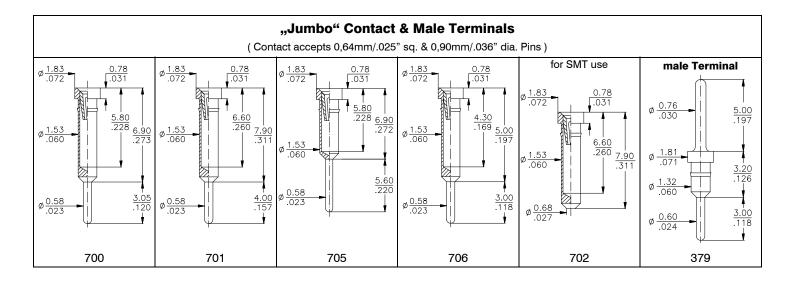
# **Terminals**

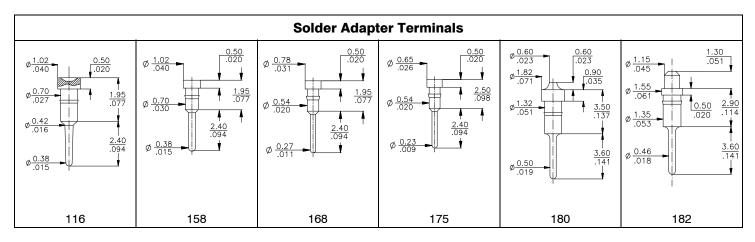






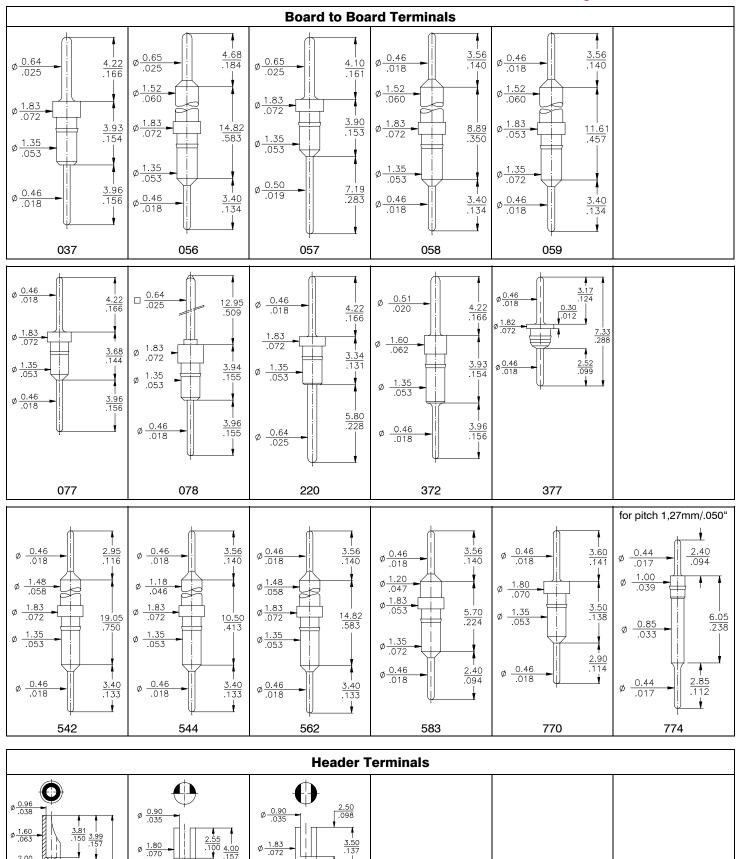












2.90 .114

12.62 .496

3.45 .135

3.15 .124

0.64

038 (Wire Wrap)

ø 1.35

1<u>2.47</u> .491

6.58

3.96 .156

036

ø 1.35 .053

ø <u>0.50</u> .019

353

# General Specification and Information





### **General Specifications for Precision Pin Sockets**

#### **Mechanical data**

Average forces for available clip types:

Standard type Low force type Super low force type High force type "Jumbo" contact

Other clips and forces available on request

Contact life

Vibration as per EN60352-4 Shock as per EN60352-4

Thermal shock as per IEC 60068-2-14 Solderability as per IEC 60068-2-58

Dry heat steady state as per IEC 60068-2-2 Cold stead state as per IEC 60068-2-1 Damp heat cyclic as per IEC 60068-2-30 Moisture sensitivity Level (JEDEC J-STD-020C)

PCB holes for 2.54mm pitch standard connectors

Coplanarity thru-hole General tolerances

Operating temperature (standard)

**Processing temperature** 

injection molded insulator (high temp) injection molded insulator (PBT)

Epoxy FR4 (Standard) Epoxy FR4 (hi temp)

**Electrical data** 

Contact resistance at 1A Current rating (except "Jumbo" contact) "Jumbo" contact Contact capacitance at 1MHz Insulation resistance at 500V DC for std & hi-temp Insulation resistance at 500V DC for FR4 Epoxy Breakdown voltage at 60 Hz

Contact resistance after 1000 ins./ext. cycles

1.80N insertion / 0.90N extraction 0.70N insertion / 0.25N extraction 0.40N insertion / 0.15N extraction 4.00N insertion / 2.50N extraction 1.40N insertion / 0.25N extraction

min. 100 cycles sinusoidal, 10 to 500 Hz, 10g, 1 octave/min, 10 cycles for each axis

half sine, 50g, 11ms, 3 shocks in 3

-55°C/+125°C, 5 cycles, 30 minutes 245°C to 255°C 5 sec; Sn97Ag3

solder alloy 260°C for 20 sec. -55°C, 2h

55°C, 90-100%rH, 24h 2 for PBT & Nylon 1 for all other materials 1.00mm diameter

0.30mm +/- 0.10mm

-55°C to +125°C

+250°C +0/-5°C for 20~40 sec. (reflow solder)

+250°C +0/-5°C for 10 sec. (wave solder only) +220°C min. for 10 sec.

+260°C min. for 60 sec.

4.3 m $\Omega$  tvp. 3A max 2pF max. 5  $\times 10^9~\Omega$  min. >10 $^4$  M $\Omega$ 

500 V AC min.  $\leq 7 \text{ m}\Omega$ 

Material (RoHS compliant) Standard temperature plastic: PBT

UL 94 V-0

High-temp plastic: Nylon, PCT, SPS, PPS, LCP UL 94 V-0

15, 16, 21, 22, 20, 25, 26, 27 28, 33, 34, 35, 36, 37, 38, 39

25, 26, 27, 29

40, 41, 42, 43

Epoxy FR4: 32, 5, 6, 7, 18, 22, 24, 29

UL 94 V-0 & UL 94 V-1

PBT, Nylon, PCT, SPS, PPS, LCP & Epoxy FR4 If necessary pls. contact E-tec

Terminal: CuZn

Contact: BeCu

Belongs to page:

14, 15, 16, 23, 17,19, 20, 24

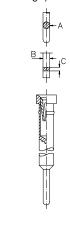
5, 6, 7, 8, 9, 10, 11, 12, 13, 14

for Material specification.

### Male pin dimensions for standard clip ( except "Jumbo Contact")

(DIN 41 870, IEC 191 for square IC-legs)

DIM	min.	max.
"A" Ø	<u>0,42</u> .016"	<u>0,56</u> .022"
"B" 🛚	<u>0,36</u> .014"	<u>0,55</u> .023"
"C" □	<u>0,20</u> .008"	<u>0,30</u> .014"



## General information concerning the E-tec interconnect products

### Plating:

Standard tin plating:

min. 2.50µm Sn (leadfree) over Ni

Standard gold plating:

flash, max. 0,10µm Au over Ni

Higher gold platings are offered on request

#### **Specifications:**

The data contained in this catalog is of general nature and refers to standard products.

For example a "Current rating" at an ambient temperature of 25° C reflects the value per individual contact. Should you require any further data or test reports, you can obtain this information from your nearest E-tec sales office.

The E-tec connectors conform with signal integrity requirements at high data and frequency rates. However we cannot offer a general information about the max. frequency or data transmission rate. For such a statement, it would require more information about the chosen configuration and pin-out, the length of the cable and/or any other specific requirements regarding the application itself and its related signal integrity.

E-tec SMT connectors, male or female, are offered with a coplanarity of max. 0,10mm. They are adapted to all modern SMT soldering processes and they can be handled easily with all currently existing placing techniques. Customers may choose between various packaging options, such as tray, tube and tape & reel.

### **GENERAL POLICY**

All information contained in this catalog, including illustrations, specifications and dimensions are accurate to the best of our knowledge, and reflect the status as at the date of publication. Due to technical progress, it is subject to change without notice. Application information is informational in nature and shall not be construed to warrant suitability of products for any particular purpose as performance may vary depending on the conditions to which a product is subjected. Unless otherwise confirmed at the time of order, all E-tec products are non cancellable and non returnable items (NCNR). E-tec products are warranted for 30 days and the warranty is limited strictly to replacement of products. This warranty does not cover any claims for natural wear and tear, nor for any compensations, such as loss of production, loss of use, loss of orders, loss of profit, nor any other direct or indirect damages.