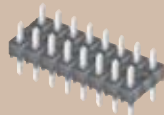




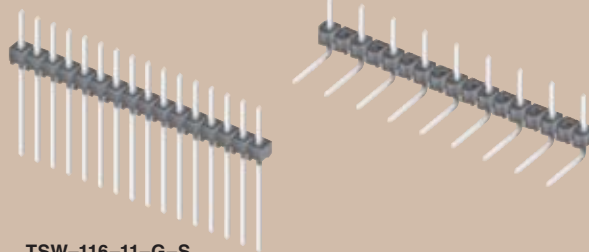
(2,54mm) .100"

TSW, HTSW SERIES

TSW-108-05-L-Q



TSW-116-11-G-S



# THROUGH-HOLE .025" SQ POST HEADER

## Mates with:

SSW, SSQ, SSM, ESW, ESQ,  
BCS, BSW, CES, SLW, IDSD,  
IDSS, SMSD, SMSS

## SPECIFICATIONS

For complete specifications  
see [www.samtec.com?TSW](http://www.samtec.com?TSW)

### TSW

#### Insulator Material:

Black Glass Filled  
Polyester

#### Terminal Material:

Phosphor Bronze

#### Plating:

Au or Sn over 50µ" (1,27µm) Ni

#### Operating Temp Range:

-55°C to +125°C with Gold

-55°C to +105°C with Tin

#### Voltage Rating:

550 VAC mated with SSW;

500 VAC mated with

BCS or ESQ;

450 VAC -RA/-RE mated with

BCS or SSM

#### RoHS Compliant:

Yes

#### Lead-Free Solderable:

Wave Only



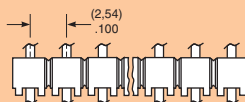
## TYPE STRIP

TSW = Standard Strip

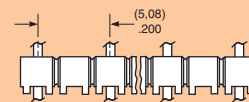
HTSW = Hi-Temp Strip

## PIN CENTERS

-1 = .100" (2,54mm) Centers,  
All Positions Filled



-2 = .200" (5,08mm) Centers,  
Every Other Position Filled



## NO. PINS PER ROW

| CURRENT RATING |                |      |      |      |      |      |
|----------------|----------------|------|------|------|------|------|
| AMBIENT TEMP   | TSW mated with |      |      |      |      |      |
|                | ESW            | SSW  | SLW  | SSQ  | SSM  | BCS  |
| 20°C           | 6.9A           | 6.9A | 7.1A | 7.6A | 6.9A | 5.9A |
| 40°C           | 6A             | 6.1A | 6.2A | 6.9A | 6A   | 5.2A |
| 60°C           | 5.3A           | 5.3A | 5.8A | 5.9A | 5.3A | 4.7A |
| 95°C           | 3.5A           | 3.5A | 3.7A | 3.9A | 3.5A | 3A   |

6 POSITIONS (2x3) POWERED

## SPECIFICATIONS

For complete specifications  
see [www.samtec.com?HTSW](http://www.samtec.com?HTSW)

### HTSW

Same as TSW

except:

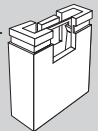
#### Insulator Material:

Natural Liquid Crystal  
Polymer



ALSO  
AVAILABLE

Shunts.  
See  
SNT  
Series



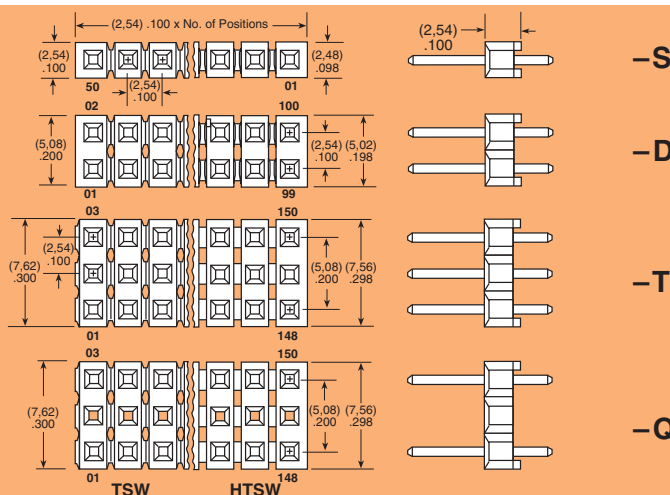
Note: Some lengths,  
styles and options are  
non-standard, non-returnable.

## APPLICATIONS

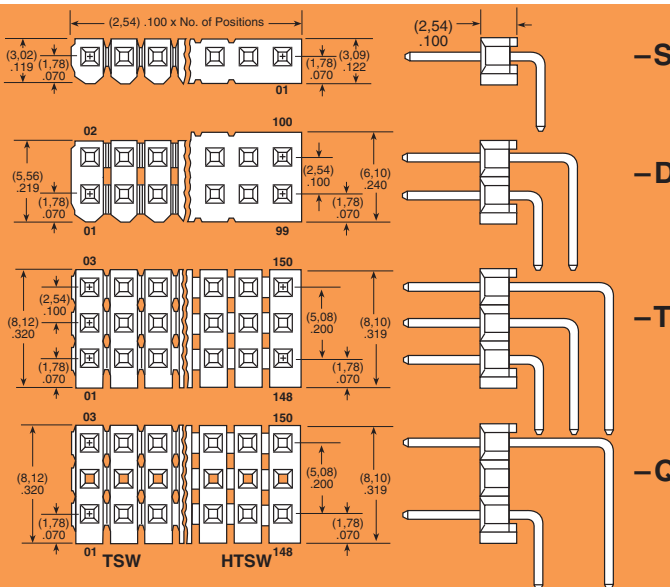


HORIZONTAL

## Straight Pin Versions



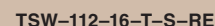
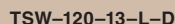
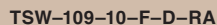
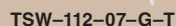
## Right Angle Versions



Due to technical progress, all designs, specifications and components are subject to change without notice.

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## PLATING OPTION

## ROW OPTION

## OTHER OPTIONS

**= Gold flash on post, Matte Tin on tail**

**= 10μ" (0,25μm) Gold on post, Matte Tin on tail**

**= 10μ" (0,25μm) Gold on post, Gold flash on balance**

= Matte Tin

**Gold stripe on contact area,  
Gold flash to tip, Matte Tin on tail  
(Mates with SSW, SSQ, SSM, ESW, ESQ, BCS only)  
(Straight lead styles -07, -08, -09 and Right Angle (-RA) -08 only)**

**Note:** Other Gold plating options available. Contact Samtec.

–S  
= Single  
Row

**-D**  
= Double Bow

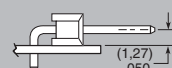
**-T**  
= Triple  
Row

**-Q**  
= Double  
Row

**-Q**  
= Double  
Row  
(5,08mm)  
.200"  
row  
space

– RA or –RE  
= Right Angle

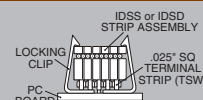
**-NA**  
= Right Angle  
(using straight body for coplanar mating with SSW-RA series)



**-LL**  
**Locking Lead**

 Two leads per strip crimped in opposite directions on or near centerline. See charts for available styles. N/A with single row 1 or 2 positions. Recommended hole sizes: (1.02mm + 0.03mm), .040" + .001"

**= Locking Clip**  
(Styles -08 thru  
-13 & -22 only)



Requires 4 pin minimum  
(NA with -T,-Q,-RA or -RE)

**= -RA Option  
with -LL Option**

– “XXX”  
= Polarized Position

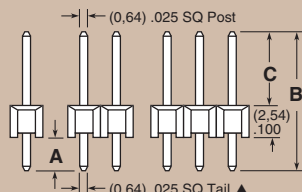
**Specify  
-SS for  
cost-effective  
heavy Gold  
where it  
counts!**

## Straight Pin Versions

(Specify "LEAD STYLE" from chart)

|   | STYLE | A               | B                | C               |
|---|-------|-----------------|------------------|-----------------|
| * | -05   | (3,30)<br>.130  | (8,51)<br>.335   | (2,67)<br>.105  |
| * | -06   | (2,41)<br>.095  | (7,62)<br>.300   | (2,67)<br>.105  |
| * | -07   | (2,54)<br>.100  | (10,92)<br>.430  |                 |
| * | -08   | (5,08)<br>.200  | (13,46)<br>.530  |                 |
|   | -09   | (10,16)<br>.400 | (18,54)<br>.790  |                 |
|   | -10   | (12,70)<br>.500 | (21,08)<br>.830  | (5,84)<br>.230  |
|   | -11   | (6,24)<br>.160  | (23,62)<br>.930  |                 |
|   | -12   | (17,78)<br>.700 | (26,16)<br>1.030 |                 |
|   | -13   | (22,86)<br>.900 | (31,24)<br>1.230 |                 |
|   | -14   | (2,79)<br>.110  | (13,46)<br>.530  | (8,13)<br>.320  |
| * | -15   |                 | (18,54)<br>.730  | (13,21)<br>.520 |
| * | -16   | (7,87)<br>.310  |                  | (8,13)<br>.320  |
| * | -17   | (2,79)<br>.110  | (21,08)<br>.830  | (15,74)<br>.620 |

\* Available with -LL  
(Locking Lead) Option



Specify -07 for best mate with IDXX Series IDC Cable

|   | STYLE | A                | B                | C                |
|---|-------|------------------|------------------|------------------|
| ★ | —18   | (2,79)<br>.110   | (23,62)<br>.930  | (18,29)<br>.720  |
| ★ | —19   |                  | (26,16)<br>1.030 | (20,83)<br>.820  |
| ★ | —20   |                  | (31,24)<br>1.230 | (25,91)<br>1.020 |
| ★ | —21   |                  | (36,32)<br>1.430 | (30,99)<br>1.220 |
| ★ | —22   |                  | (7,62)<br>.300   | (16,00)<br>.630  |
| ★ | —23   | (2,92)<br>.115   | (11,30)<br>.445  |                  |
| ★ | —24   |                  | (12,15)<br>.480  | (6,73)<br>.265   |
| ★ | —25   | (5,33)<br>.210   | (16,00)<br>.630  | (8,13)<br>.320   |
| ▲ | —26   | (3,20)<br>.126   | (11,58)<br>.456  | (5,84)<br>.230   |
|   | —27   | (25,40)<br>1.000 | (33,78)<br>1.330 |                  |
|   | —28   | (20,32)<br>.800  | (28,70)<br>1.130 |                  |
|   | —29   | (23,11)<br>.910  | (33,78)<br>1.330 | (8,13)<br>.320   |
|   | —30   | (18,03)<br>.710  | (28,70)<br>1.130 |                  |
|   | —41+  | (0,89)<br>.035   | (9,27)<br>.365   | (5,84)<br>.230   |
|   | —42+  | (1,27)<br>.035   | (11,94)<br>.365  | (8,13)<br>.320   |

+ Style -41 & -42 available with HTSW only.

▲Except: Style –26  
(0,46) .018 DIA Tail

## Right Angle Versions

(Specify "LEAD STYLE" from chart and select -RA or -RE from other options)

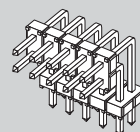
|   | - RA LEAD<br>STYLE | SINGLE (- S)    |                 | DOUBLE (- D)    | TRIPLE (- T & - O) | - RE LEAD<br>STYLE                           | SINGLE<br>A     | C              |                 |                |
|---|--------------------|-----------------|-----------------|-----------------|--------------------|----------------------------------------------|-----------------|----------------|-----------------|----------------|
|   |                    | A               | C               |                 |                    |                                              |                 |                |                 |                |
| ★ | -08                | (2,29)<br>.090  | (5,84)<br>.230  | (2,29)<br>.090  | (2,29)<br>.090     | -09                                          | (4,83)<br>.190  | (5,84)<br>.230 |                 |                |
|   | -09                | (7,37)<br>.290  |                 | (7,37)<br>.290  | (7,37)<br>.290     | -10                                          | (7,37)<br>.290  |                |                 |                |
|   | -10                | (9,91)<br>.390  |                 | (9,91)<br>.390  | (9,91)<br>.390     | -11                                          | (9,91)<br>.390  |                |                 |                |
|   | -11                | (12,45)<br>.490 |                 | (12,45)<br>.490 | (12,45)<br>.490    | -12                                          | (12,45)<br>.490 |                |                 |                |
|   | -12                | (14,99)<br>.590 |                 | (14,99)<br>.590 | (14,99)<br>.590    | -13                                          | (17,53)<br>.690 |                |                 |                |
|   | -13                | (20,07)<br>.790 |                 | (20,07)<br>.790 | N/A                | -16                                          | (2,54)<br>.100  |                | (8,13)<br>.320  |                |
|   | -16                | (5,08)<br>.200  |                 | (8,13)<br>.320  | (5,08)<br>.200     | (5,08)<br>.200                               | -21             |                | (22,61)<br>.890 | (5,84)<br>.230 |
|   | -21                | (25,15)<br>.990 |                 | (5,84)<br>.230  | N/A                | N/A                                          | -22             |                | (2,29)<br>.090  |                |
|   | -22                | (4,83)<br>.190  |                 | (8,13)<br>.320  | (4,83)<br>.190     | (4,83)<br>.190                               | -27             |                | (20,07)<br>.790 |                |
|   | -25                | (2,54)<br>.100  |                 | (8,13)<br>.320  | (2,54)<br>.100     | (2,54)<br>.100                               | -28             |                | (14,99)<br>.590 |                |
| ★ | -27                | (22,61)<br>.890 | (5,84)<br>.230  | N/A             | N/A                | *Available with -LA<br>(Locking Lead) Option |                 |                |                 |                |
|   | -28                | (17,53)<br>.690 | (17,53)<br>.690 |                 |                    |                                              |                 |                |                 |                |
|   | -29                | (20,32)<br>.800 | N/A             |                 |                    |                                              |                 |                |                 |                |
|   | -30                | (15,24)<br>.600 | (8,13)<br>.320  | (15,24)<br>.600 |                    |                                              |                 |                |                 |                |

ALSO  
AVAILABLE

\*Available with –LA  
(Locking Lead) Option

**ALSO  
AVAILABLE**

Elevated Right  
Angle option.  
Call Samtec.



*Due to technical progress, all designs, specifications and components are subject to change without notice*

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