



(2.54 mm) .100"



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 or www.samtec.com?HTSW

Insulator Material:
 TSW: Black Glass Filled Polyester
 HTSW: Natural Liquid Crystal Polymer
Terminal Material:
 Phosphor Bronze
Plating:
 Au or Sn over 50µ" (1.27 µm) 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
 400 VAC mated with CES
RoHS Compliant: Yes
Lead-Free Solderable:
 HTSW: Yes
 TSW: Wave Only

CURRENT RATING (PER PIN)						
TSW mated with						
ESW	SSW	SLW	SSQ	SSM	BCS	SNT
5.2 A	5.7 A	5.2 A	6.3 A	5.2 A	4.6 A	4.3 A
1 POSITION POWERED PER ROW						

TYPE STRIP	PIN CENTERS	NO. PINS PER ROW
<p>TSW = Standard Strip</p> <p>HTSW = Hi-Temp Strip</p>	<p>-1 = .100" (2.54 mm) Centers, All Positions Filled</p>	<p>-2 = .200" (5.08 mm) Centers, Every Other Position Filled</p>

Version	Pin Count	Pin Spacing	Pin Diameter
Straight Pin Versions	01 thru 50	.100" (2.54 mm)	.025" (0.635 mm)
	01 thru 99	.100" (2.54 mm)	.025" (0.635 mm)
	01 thru 148	.100" (2.54 mm)	.025" (0.635 mm)
	01 thru 150	.100" (2.54 mm)	.025" (0.635 mm)
Right Angle Versions	01 thru 50	.100" (2.54 mm)	.025" (0.635 mm)
	01 thru 99	.100" (2.54 mm)	.025" (0.635 mm)
	01 thru 148	.100" (2.54 mm)	.025" (0.635 mm)
	01 thru 150	.100" (2.54 mm)	.025" (0.635 mm)

01 thru 50
 = .100" (2.54 mm) Center Version

02 thru 25
 = .200" (5.08 mm) Center Version

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



ALSO AVAILABLE (MOQ Required)

- Other platings
- Contact Samtec.

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

TSW-109-10-F-D-RA



HTSW-120-13-T-D



TSW-114-16-G-S-RE

TSW-112-07-G-T



TSW, HTSW SERIES

LEAD STYLE

PLATING OPTION

ROW OPTION

OTHER OPTIONS

-F

= Gold flash on post, Matte Tin on tail

-L

= 10µ" (0.25 µm) Gold on post, Matte Tin on tail

-G

= 10µ" (0.25 µm) Gold on post, Gold flash on balance

-T

= Matte Tin

OTHER SOLUTIONS

- Elevated Right Angle option
- Shunts
- Contact Samtec

-S

= Single Row

-D

= Double Row

-T

= Triple Row

-Q

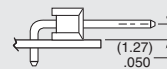
= Double Row (5.08 mm) .200" row space

-RA or -RE

= Right Angle

-NA

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



-LL

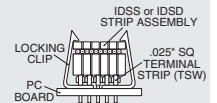
= Locking Lead



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 size (1.02 mm ± 0.03 mm) .040" ± .001"

-LC

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



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

-LA

= -RA Option with -LL Option

-"XXX"

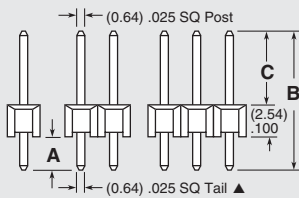
= Polarized Position

Straight Pin Versions

(Specify "LEAD STYLE" from chart)

STYLE	A	B	C
* -05	(3.30) .130	(8.51) .335	(2.67) .105
* -06	(2.41) .095	(7.62) .300	(2.67) .105
* -07	(2.54) .100	(10.92) .430	
* -08	(5.08) .200	(13.46) .530	
-09	(10.16) .400	(18.54) .730	(5.84) .230
-10	(12.70) .500	(21.08) .830	
-11	(15.24) .600	(23.62) .930	
-12	(17.78) .700	(26.16) 1.030	
-13	(22.86) .900	(31.24) 1.230	
-14	(2.79) .110	(13.46) .530	(8.13) .320
* -15	(7.87) .310	(18.54) .730	(13.21) .520
* -16	(7.87) .310	(18.54) .730	(8.13) .320
* -17	(2.79) .110	(21.08) .830	(15.74) .620

* Available with -LL (Locking Lead) Option



Specify -07 for best mate with IDXX Series IDC Cable

STYLE	A	B	C
* -18		(23.62) .930	(18.29) .720
* -19	(2.79) .110	(26.16) 1.030	(20.83) .820
* -20		(31.24) 1.230	(25.91) 1.020
* -21		(36.32) 1.430	(30.99) 1.220
* -22	(7.62) .300	(16.00) .630	(5.84) .230
* -23		(11.30) .445	
* -24	(2.92) .115	(12.15) .480	(6.73) .265
* -25	(5.33) .210	(16.00) .630	(8.13) .320
▲ -26	(3.20) .126	(11.58) .456	
-27	(25.40) 1.000	(33.78) 1.330	(5.84) .230
-28	(20.32) .800	(28.70) 1.130	
-29	(23.11) .910	(33.78) 1.330	(8.13) .320
-30	(18.03) .710	(28.70) 1.130	
+ -41	(0.89) .035	(9.27) .365	(5.84) .230
+ -42	(1.27) .050	(11.94) .470	(8.13) .320

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

▲ Except: Style -26 (0.46) .018 DIA Tail

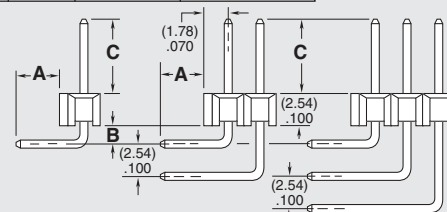
Right Angle Versions

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

-RA LEAD STYLE	SINGLE (-S)		DOUBLE (-D)	TRIPLE (-T & -Q)
	A	C	A	A
-08	(2.29) .090		(2.29) .090	(2.29) .090
-09	(7.37) .290		(7.37) .290	(7.37) .290
-10	(9.91) .390	(5.84) .230	(9.91) .390	(9.91) .390
-11	(12.45) .490		(12.45) .490	(12.45) .490
-12	(14.99) .590		(14.99) .590	(14.99) .590
-13	(20.07) .790		(20.07) .790	N/A
* -16	(5.08) .200	(8.13) .320	(5.08) .200	(5.08) .200
-21	(25.15) .990	(5.84) .230	N/A	N/A
* -22	(4.83) .190		(4.83) .190	(4.83) .190
* -25	(2.54) .100	(8.13) .320	(2.54) .100	(2.54) .100
-27	(22.61) .890	(5.84) .230	N/A	
-28	(17.53) .690		(17.53) .690	
-29	(20.32) .800	(8.13) .320	N/A	N/A
-30	(15.24) .600		(15.24) .600	

-RE LEAD STYLE	SINGLE A	C
-09	(4.83) .190	
-10	(7.37) .290	
-11	(9.91) .390	(5.84) .230
-12	(12.45) .490	
-13	(17.53) .690	
-16	(2.54) .100	(8.13) .320
-21	(22.61) .890	
-22	(2.29) .090	(5.84) .230
-27	(20.07) .790	
-28	(14.99) .590	

* Available with -LA (Locking Lead) Option



LEAD STYLE	B
-RA	(1.52) .060
-RE	(4.06) .160