

# ELEVATED SOCKETS ESW & ESQ SERIES

**Mates with:**  
TSW, MTSW, EW, MTLW,  
TSS, ZSS,  
TSM, DW, ZW, HW

## SPECIFICATIONS

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

**Insulator Material:**  
Black Glass Filled Polyester



**Contact Material:**  
Phosphor Bronze



**Plating:**  
Au or Sn over

50µ" (1,27µm) Ni

**Current Rating:**  
3A continuous

**Voltage Rating:**  
550 VAC mated with

TSW or ESQ

**Operating Temp Range:**  
-55°C to +125°C with Gold

-55°C to +105°C with Tin

**Contact Resistance:**  
10 mΩ max

**Insertion Depth:**  
(3,68mm) .145" to

(6,35mm) .250"

**Insertion Force:**  
(Single contact only)

(-S plating)

Standard = 6oz (1,67N) avg.

((0,64mm) .025" SQ pin);

ESW Low Insertion Force=

3oz (0,83N) avg.

ESQ Low Insertion Force=

3.3oz (0,92N) avg.

**Normal Force:**

Standard = 125 grams (4,4N)

**Withdrawal Force:**  
(Single contact only)

(-S plating)

Standard = 5oz (1,39N) avg.

((0,64mm) .025" SQ pin);

ESW Low Insertion Force=

2.6oz (0,72N) avg.

ESQ Low Insertion Force=

2.9oz (0,81N) avg.

**Max Cycles:**

100 with 10µ" (0,25µm) Au

**RoHS Compliant:**

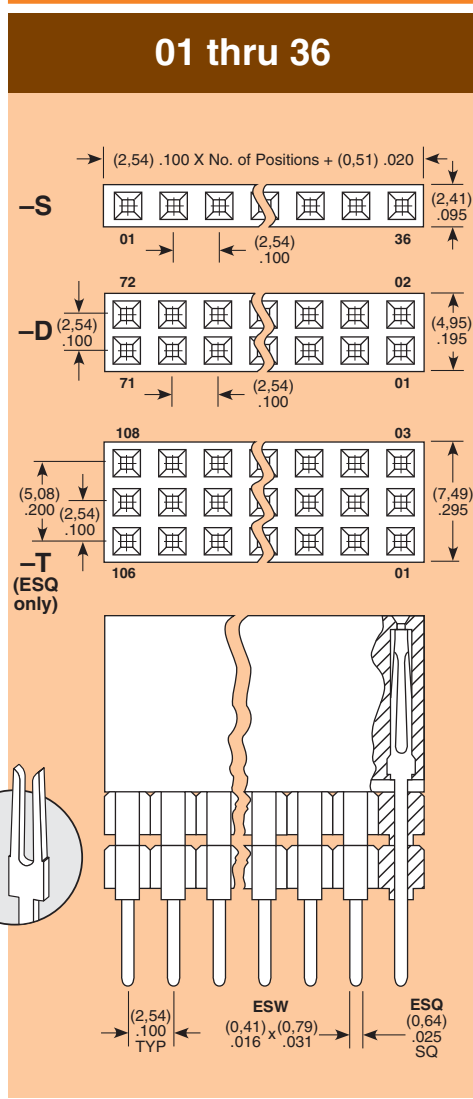
Yes

**Lead-Free Solderable:**

Wave only



TYPE STRIP	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	OTHER OPTION
<b>ESW</b> = Solder Tail				<b>-L</b> = 10µ" (0,25µm) Gold contact, Matte Tin on tail (ESQ only)	<b>-S</b> = Single Row	<b>-LL</b> = Locking Lead
<b>ESQ</b> = Square Tail			<b>-G</b> = 20µ" (0,51µm) Gold contact, Gold Flash on Balance	<b>-D</b> = Double Row		
			<b>-S</b> = 30µ" (0,76µm) Gold contact, Matte Tin on Tail	<b>-T</b> = Triple Row (ESQ only)		
			<b>-T</b> = Matte Tin (N/A w/LIF contact)			



**Note:** Other Gold plating options available. Contact Samtec.  
**Note:** Some lengths, styles and options are non-standard, non-returnable.

## Specify LEAD STYLE from chart below.

STANDARD INSERTION FORCE	LOW INSERTION FORCE	A	B
- 12	- 37	(2,29) .090	(11,05) .435
- 13	- 38	(7,36) .290	
- 23	- 48	(4,83) .190	(13,59) .535
- 33	- 58	(2,29) .090	(16,13) .635
- 14	- 39	(12,19) .480	(11,05) .435
- 24	- 49	(9,65) .380	(13,59) .535
- 34	- 59	(7,11) .280	(16,13) .635
- 44	- 69	(4,57) .180	(18,67) .735

## APPLICATIONS

*Self Nesting Sockets*

(ESQ Series)

PC/104 J1/P1 "Stackthrough" Connectors	
Standard Insertion Force	ESQ-132-14-G-D
Low Insertion Force	ESQ-132-39-G-D
PC/104 J1 "Non-Stackthrough" Connectors	
Standard Insertion Force	ESQ-132-12-G-D
Low Insertion Force	ESQ-132-37-G-D
PC/104 J2/P2 "Stackthrough" Connectors	
Standard Insertion Force	ESQ-120-14-G-D
Low Insertion Force	ESQ-120-39-G-D

PC/104 is a trademark of the PC/104 Consortium.

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

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)