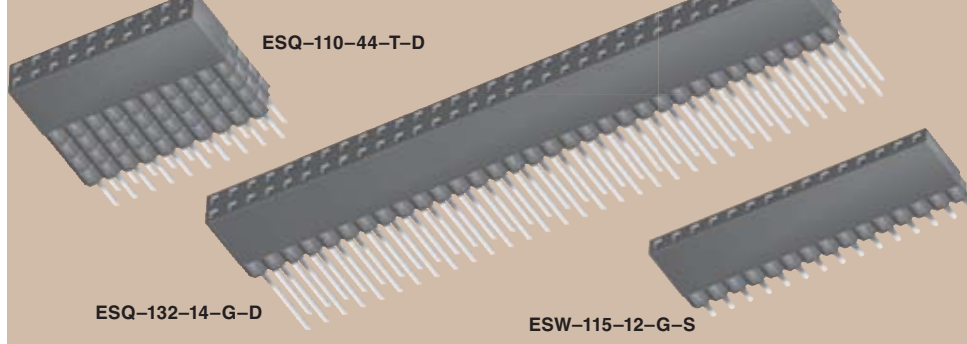




(2,54mm) .100"

ESW, ESQ SERIES



# ELEVATED SOCKET

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

**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)  
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)  
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



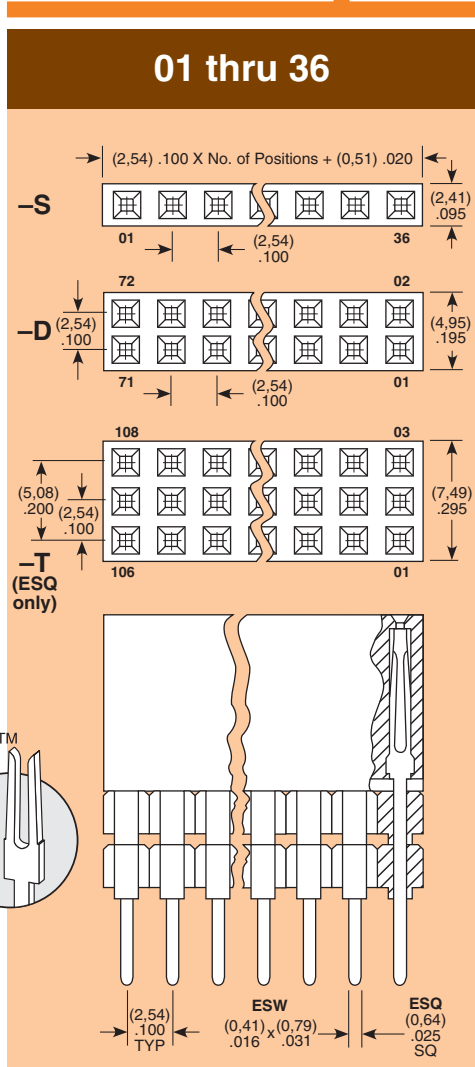
<b>TYPE STRIP</b>	<b>1</b>	<b>NO. PINS PER ROW</b>	<b>LEAD STYLE</b>	<b>PLATING OPTION</b>	<b>ROW OPTION</b>	<b>OTHER OPTION</b>
<b>ESW</b> = Solder Tail			<b>-L</b> = 10µ" (0,25µm) Gold contact, Matte Tin on tail	<b>-S</b> = Single Row	<b>-LL</b> = Locking Lead	
<b>ESQ</b> = Square Tail			<b>-G</b>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

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

**"XXX"**  
= Polarized

CURRENT RATING	
AMBIENT TEMP	ESW mated with TSW
20°C	6.9A
40°C	6.0A
60°C	5.3A
95°C	3.5A

6 POSITIONS (2x3) POWERED



**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.

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