Part # Search
GO

About Curtis
ISO Certified
Distributors
Reps
Competitor Cross Reference
Catalog PDF's
Contact Us
Sample Request
What's New
Shipment Track
FAQ's
Glossary
Check Stock
Terms and Conditions

An Introduction to Curtis Industries
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PDF Version

# Series SE/SEI .25” (1/4”) 6.35mm

Miniature Feed-Thru Printed Circuit and Surface Connection

## Features

**Superior Construction**

- Integrally mounted .116” diameter mounting holes
- External terminals available in two No. 2-56 screw designs 22 AWG to 16 AWG
- Internal terminals include .047" diameter printed circuit pin, and turret-type solder pins
- Barrier-type construction
- High-impact, break-resistant thermoplastic

**Versatility**

- SE Series offers all the compactness and versatility of the SEI Series without full feed-through insulation
- One through 26 terminals on 1/4" center-to-center spacing
- Two No. 2-56 screw designs

**UL Recognized**

**CSA Certified**

## Engineering Specifications

**Center-to-Center Spacing:** 1/4" (6.35mm)

**Wire Range:** UL recognized for No.22AWG to No.16AWG. Models SESX, SEIPX, SEIFX, SEPX and SEFX with standard No.2.56 plated steel screw are UL recongnized "for factory wiring only". Models SESCX, SEPCX, SEFCX, SEIPCX and SEIFCX are UL recognized "for field wiring" when ordered with special No.2-56 stainless steel screw.

**Number of Terminals:** 1 thru 26

**Voltage Rating:** UL & CSA

150 volts - General Industrial

250 volts - Commercial Appliance

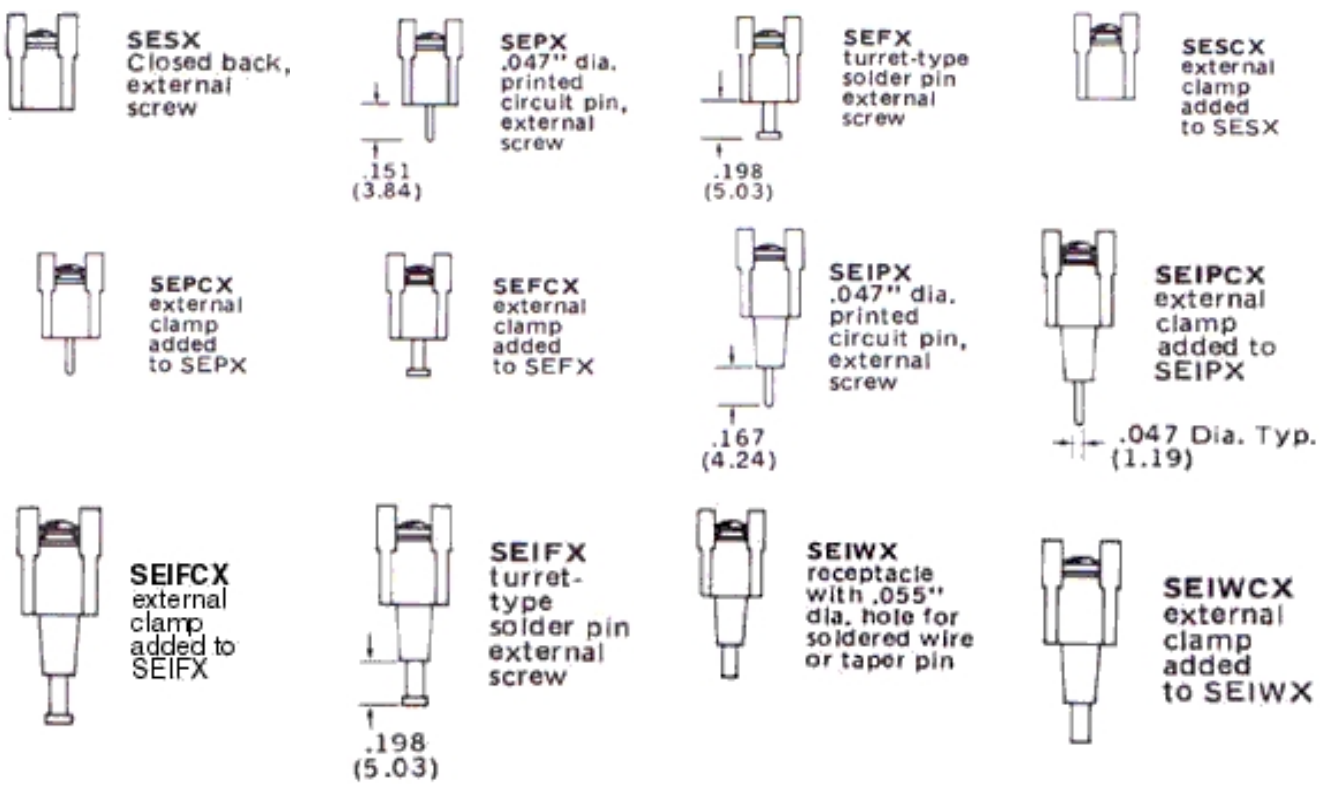
**Tighening Torque:** Wire clamp with stainless steel screw 3 in.-lbs.

**Current Rating:** 5 amps UL

| **Housing:** | **"X" Grade** |
|---|---|
| Material | Polyphenylene Oxide |
| Continuous Use Temp. (UL Index) | 110° C (230°F) |
| Flamability Rating | 94V-0 |
| Water Absorption (24hrs. % wt. gain) | .06% |
| Chemical Resistance | Resistant to inorganic basis and acids - for organic substances contact factory for specific resistance. |
| **Breakdown Voltage** | |
| Terminal - Terminal | 3,600V Typ. |
| Terminal - Terminal | 4,700V Typ. |

NOTE: Specifications contained herein are subject to change without notice.

## Variations



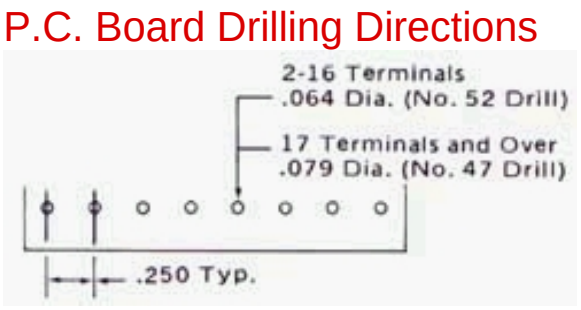

## Internal Terminal Designations

| | |
|---|---|
| SESX | Closed-back design which can be mounted on metal surface with no additional insulation required. |
| SEPX, SEIPX | Printed circuit board design with .047" tin-plated brass pin. |
| SEFX, SEIFX | Tin-plated brass turret-type solder pin. |

## External Terminal Designations

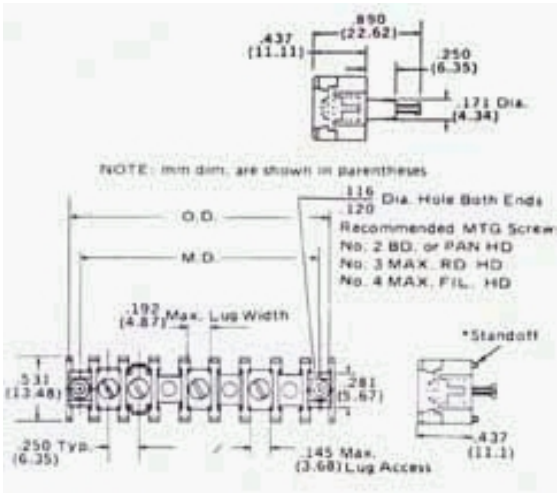
| | |
|---|---|
| SESX,SEPX, SEFX,SEIPX, SEIFX | No. 2-56 plated steel* terminal screw accepting up to No. 16AWG wire. |
| SESCX,SEPCX, SEFCX,SEIPCX, SEIFCX | Nickel-plated brass surface clamp with No.2-56 plated steel* screw to eliminate lugging. Accepts wire up to No.16AWG. |

## P.C. Board Drilling Directions




| No. of Terminals | Mounting Dimensions | | Overall Dimensions | | Less Mounting Positions | |
|---|---|---|---|---|---|---|
| | Inches | Metric (mm) | inches | Metric (mm) | Inches | Metric (mm) |
| 1 | .500 | 12.70 | .781 | 19.84 | .375 | 9.52 |
| 2 | .750 | 19.05 | 1.031 | 26.19 | .625 | 15.87 |
| 3 | 1.000 | 25.40 | 1.281 | 32.54 | .875 | 22.22 |
| 4 | 1.250 | 31.75 | 1.531 | 38.89 | 1.125 | 28.57 |
| 5 | 1.500 | 38.10 | 1.781 | 45.24 | 1.375 | 34.92 |
| 6 | 1.750 | 44.45 | 2.031 | 51.59 | 1.625 | 41.27 |
| 7 | 2.000 | 50.80 | 2.281 | 57.94 | 1.875 | 47.62 |
| 8 | 2.250 | 57.15 | 2.531 | 64.29 | 2.125 | 53.97 |
| 9 | 2.500 | 63.50 | 2.781 | 70.64 | 2.375 | 60.32 |
| 10 | 2.750 | 69.85 | 3.031 | 76.99 | 2.625 | 66.67 |
| 11 | 3.000 | 76.20 | 3.281 | 83.34 | 2.875 | 73.37 |
| 12 | 3.250 | 82.55 | 3.531 | 89.69 | 3.125 | 79.37 |
| 13 | 3.500 | 88.90 | 3.781 | 96.04 | 3.375 | 85.72 |
| 14 | 3.750 | 95.25 | 4.031 | 102.39 | 3.625 | 92.07 |
| 15 | 4.000 | 101.60 | 4.281 | 108.74 | 3.875 | 98.42 |
| 16 | 4.250 | 107.95 | 4.531 | 115.09 | 4.125 | 104.77 |
| 17 | 4.500 | 114.30 | 4.781 | 121.44 | 4.375 | 111.12 |
| 18 | 4.750 | 120.65 | 5.031 | 127.79 | 4.625 | 117.47 |
| 19 | 5.000 | 127.00 | 5.281 | 134.14 | 4.875 | 123.82 |
| 20 | 5.250 | 133.35 | 5.531 | 140.49 | 5.125 | 130.17 |
| 21 | 5.500 | 139.70 | 5.781 | 146.84 | 5.375 | 136.52 |
| 22 | 5.750 | 146.05 | 6.031 | 153.19 | 5.625 | 142.87 |
| 23 | 6.000 | 152.40 | 6.281 | 159.54 | 5.875 | 149.22 |
| 24 | 6.250 | 158.75 | 6.531 | 165.89 | 6.125 | 155.57 |
| 25 | 6.500 | 165.10 | 6.781 | 172.24 | 6.375 | 161.92 |
| 26 | 6.750 | 171.45 | 7.031 | 178.59 | 6.625 | 168.27 |

## Dimensions




## How to Order

SEI and SE Series terminal blocks are ordered by listing a composite number made up of the model designation followed by the number of poles required for the application.

Suffixes are used as follows:
R - denotes model less mounting positions

*The SEPX and SEFX are made with .020" standoffs for ease in cleaning after the soldering operation.