

# Switchcraft®

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## 1/4" RIGHT-ANGLE PHONE JACKS

SERIES - RA and RN

1. Series RN110
2. Series RA

[click here to download a schematic drawing](#)

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**SERIES - RA and RNSERIES RA** - 2- and 3-conductor RA Jax® are designed with split terminals which provide two distinct advantages over contemporary jacks:

1. Positive retention of jack in PC board during wave soldering.
2. Split terminal permits additional solder flow paths up the terminal for better mechanical/electrical connection

Tip spring design facilitates positive retention of differing mating plug tip shapes (industry standard and others).

**SERIES RN** - Right-angle Hi-D Jax® permits space-saving mounting on PC boards. Available in 2- and 3-conductor types with or without shunt circuits, which can mate with .25 inch diameter COMMERCIAL or TELEPHONE/MIL plug fingers. Right-angle jack permits tip of mating plug to be inserted parallel with PC board. Can be mounted on PC boards or combined PC board and panel/chassis.

Mounted through .375 inch diameter holes (locknut and washer supplied) in panels and chassis up to .141 inches thick. Minimum mounting centers are .625 inches. If insulated mount is desired, mounting with flat, non-conductive washer (not supplied) is recommended.

PC terminals mount on boards up to .125 inches thick, and hand dip or wave soldering, is recommended. Three separate standoffs fit through board to provide stable mounting. Threaded bushing permits optional fastening to panel or chassis.

**SERIES RN110** - 2- and 3-conductor right-angle types mount in PC boards or panel/chassis. Bushing is .278 inches long.

## **SPECIFICATIONS**

**Housing:** Thermoplastic.

**Bushing:** Integral with housing.

**Springs:** Copper alloy, silver-plated (also available with

selectively gold-plated contact points and selectively tin-plated terminals).

**Contacts:** Integral, part of shunt springs.

**NOTE:** Specifications for Mechanical, Electrical and Environmental are the same for Hi-D<sup>®</sup> Jax. (page 87)

<b>1/4" RA/SN Jack Part Numbering System</b>		
<b>Series</b>	<b>Bushing Option</b>	<b>Circuitry<sup>1</sup></b>
1/4" Right-Angle PC mount jack with bifurcated PC terminals.	11 - (RN only) Insulated, threaded bushing, .375" Height Off Board.	1 - I
1/4" Right-Angle PC mount jack Housing snaps to PC board.	37A - (SN only) Insulated, nonthreaded bushing, .375" Height Off Board.	2A - III
1/4" Right-Angle PC mount jack that accepts commercial or Mil plugs	49A - (SN only) Insulated, nonthreaded bushing, .492" Height Off Board.	2B - IV
	49B - (RA or SN only) Insulated, threaded bushing, .492" Height Off Board.	3B - VII *
	49C - (RA or SN only) Metal, threaded bushing, .492" Height Off Board.	3F - XXVIII *
	70B - (RA or SN only) Insulated, threaded bushing, .708" Height Off Board.	4B - XII
	70C - (RA or SN only) Metal, threaded bushing, .708" Height Off Board.	

\* - These circuits are only available in RN11 series jacks.  
<sup>1</sup> see pages 65 and 66

<b>ORDERING INFORMATION</b>			
<b>SERIES SN Part Numbers</b>	<b>Description</b>	<b>Jack<sup>2</sup> Schematic</b>	<b>Typical Mating Plug<sup>3</sup></b>
SN37A11 <sup>1</sup>	2-cond., open circuit	I	250
SN37A12A <sup>1</sup>	2-cond., single closed circuit	III	
SN37A12B <sup>1</sup>	3-cond., double open circuit	IV	

SN37A14B <sup>1</sup>	3-cond., double closed circuit	XII	267
SN49A11 <sup>1</sup>	2-cond., open circuit	I	250
SN49A12A <sup>1</sup>	2-cond., single closed circuit	III	
SN49A12B <sup>1</sup>	3-cond., double open circuit	IV	267
SN49A14B <sup>1</sup>	3-cond., double closed	XII	
SN49B11 <sup>1</sup>	circuit2-cond., open circuit	I	250
SN49B12A <sup>1</sup>	2-cond., single closed circuit	III	
SN49B12B <sup>1</sup>	3-cond., double open circuit	IV	267
SN49B14B <sup>1</sup>	3-cond., double closed	XII	
SN49C11	circuit2-cond., open circuit	I	250
SN49C12A	2-cond., single closed circuit	III	
SN49C12B	3-cond., double open circuit	IV	267
SN49C14B	3-cond., double closed	XII	
SN70B11	circuit2-cond., open circuit	I	250
SN70B12A	2-cond., single closed circuit	III	
SN70B12B	3-cond., double open circuit	IV	267
SN70B14B	3-cond., double closed	XII	
SN70C11	circuit2-cond., open circuit	I	250
SN70C12A	2-cond., single closed circuit	III	
SN70C12B	3-cond., double open circuit	IV	267
SN70C14B	3-cond., double closed circuit	XII	

<sup>1</sup> Series SN37A supplied with Part Number P2993 cover. Series SN49A and SN49B can be supplied with Part Number P2994 cover on special order. Contact Switchcraft.

<b>SERIES RA Part Numbers</b>	<b>Description</b>	<b>Jack<sup>2</sup> Schematic</b>	<b>Typical Mating Plug<sup>3</sup></b>
RA49B11	2-cond., open circuit	I	250
RA49B12A	2-cond., single closed circuit	III	
RA49B12B	3-cond., double open circuit	IV	267
RA49B14B	3-cond., double closed circuit	XII	
RA49C11	2-cond., open circuit	I	250
RA49C12A	2-cond., single closed circuit	III	
RA49C12B	3-cond., double open circuit	IV	267
RA49C14B	3-cond., double closed	XII	
RA70B11	circuit2-cond., open circuit	I	250
RA70B12A	2-cond., single closed circuit	III	
RA70B12B	3-cond., double open circuit	IV	267
RA70B14B	3-cond., double closed	XII	
RA70C11	circuit2-cond., open circuit	I	250
RA70C12A	2-cond., single closed circuit	III	
RA70C12B	3-cond., double open circuit	IV	267
RA70C14B	3-cond., double closed circuit	XII	
<b>SERIES RN Part Numbers</b>			
RN111PC	2-cond., single open circuit	I	250
RN112APC	2-cond., single closed circuit	III	250
RN112BPC	3-cond., double open circuit	IV	267
RN113BPC	3-cond., tip closed, ring open	VII	267
ý RN113FPC	3-cond., tip open, ring closed	XXVIII	267
RN114BPC	3-cond., double closed circuit	XII	267

<sup>2</sup> See pages 65 and 66.

<sup>3</sup> Other mating plugs are available.

ý Special order only. Contact Switchcraft.

MM Conversions					
Series	Catalog Dimensions	+ tol/- tol	Range	mm equiv.	Use
(SN37A)	0.253	0.0015	0.2545	6.4643	6.46
		0.0010	0.2540	6.4516	6.45
	0.590			14.986	14.99
	0.375			9.525	9.53
	0.625			15.875	15.88
	0.015			0.381	0.38
	1.342			34.0868	43.09
	0.254			6.4516	6.45
	0.125			3.175	3.18
	0.145			3.683	3.68
	0.062			1.5748	1.57
	1.162			29.5148	29.51
	0.762			19.3548	19.35
	0.433			10.9982	11.00
	0.462			11.7348	11.73
	0.500			12.7	12.70
	0.187			4.7498	4.75
	0.390			9.906	9.91
(diff only)					
(SN49A)	0.708			17.9832	17.98
	0.492			12.4968	12.50
(SN49C)				0.016	0.4064 0.41
	0.375			9.525	9.53
	0.238			6.0452	6.05
(SN70B)	0.958			24.3332	24.33

	0.708			17.9832	17.98
(SN 70C)					
PC LAYOUT	0.700			17.78	17.78
	0.500			12.7	12.70
	0.300			7.62	7.62
	0.253			6.4262	6.43
	0.057			1.4478	1.45
	0.187			4.7498	4.75
	0.390			9.906	9.91
	0.128			3.2512	3.25
PC LAYOUT	0.050			1.27	1.27
	0.450			11.43	11.43

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