

Printed Circuit Board Disconnects

Product Facts

- Quick connect or disconnect
- Automatic or semiautomatic application of strip form receptacles to wire
- Receptacles for wire size range 28 AWG [0.08] thru 17 AWG [1.0] and tinsel wire
- Automatic or semiautomatic insertion of strip form pins to printed circuit boards
- Solid or formed pins, single- or double-sided printed circuit board capability
- Choice of materials and platings

Technical Documents

Product Specification

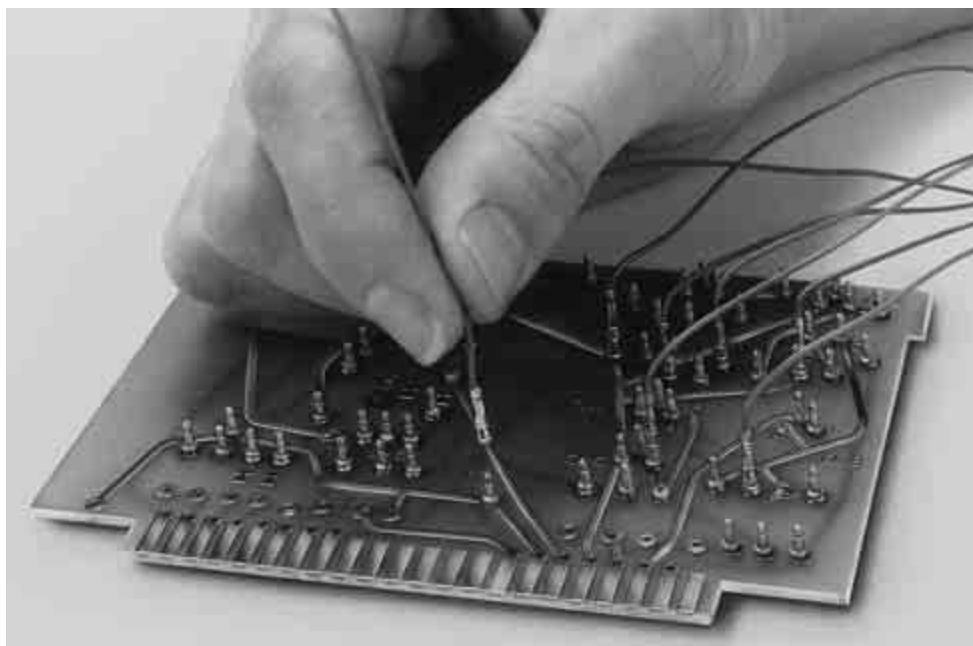
108-1025
108-1059

Application Specification

114-1008

Instruction Sheets

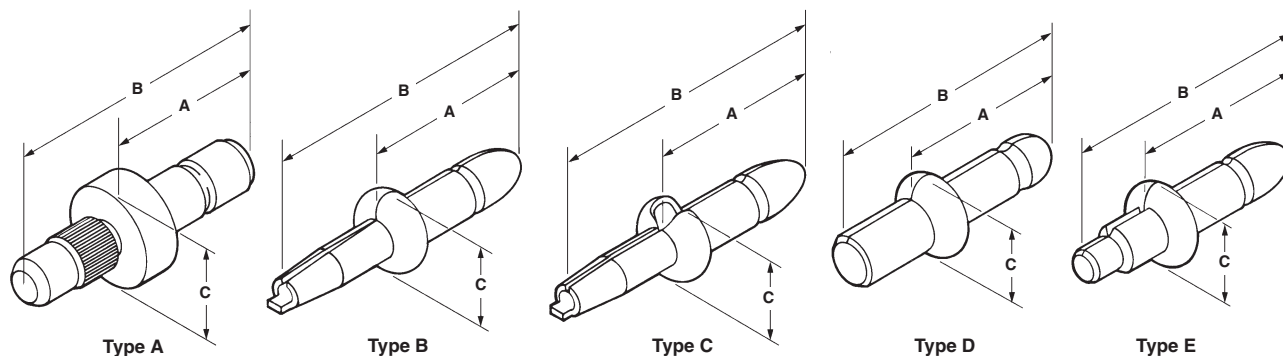
408-7850
408-7951
408-7963
408-7698
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408-7377
408-7345



Tyco Electronics printed circuit disconnect embodies the dual features of automation and the ability to make quick wiring changes. The special formed pins, available in .058 [1.47] and .093 [2.36] diameters, can be inserted in a printed circuit board quickly and reliably by fully automatic or semiautomatic machinery. The solid pin family, in .058 [1.47] diameter, is attached manually; its knurled edge retains it mechanically in the board until soldering is complete. All pins must be soldered to insure mechanical and electrical reliability. Pins may be used for either single or double-sided pc boards. The receptacles are applied quickly and efficiently to wire using semiautomatic AMP-O-LECTRIC or fully automatic AMPOMATOR machines.

All receptacles feature a precision wire crimp with an insulation crimp for high mechanical strength. A variety of wire and insulation ranges are available as listed. The combination of the pin and receptacle enables users to bring a variety of wires to a printed circuit board and offers the capability of a quick connect or disconnect. The product is ideal for use in prototype and production applications, particularly where wiring changes or rapid pc board interconnections are required. Specific users include radio, television, test equipment, computer and business machine industries.

Printed Circuit Board Disconnects (Continued)



.058 [1.47] Diameter Solid Pins

Type	Hole Diameter	Pc Board Thickness	Dimensions			Material and Finish	Part Nos. Loose Piece
			A	B	C		
A	.062-.059 1.57-1.50	.125 3.18	.195 4.95	.385 9.78	.110 2.79	Brass, Tin	3-60753-2
A	.062-.059 1.57-1.50	.0312 0.79	.195 4.95	.260 6.60	.110 2.79	Brass, Tin	3-60839-1

.058 [1.47] Diameter Formed Pins

Type	Hole Diameter	Pc Board Thickness	Dimensions			Material and Finish	Part Nos.		Insertion Head
			A	B	C		Strip Form	Loose Piece ¹	
B	.050-.046 1.27-1.17	.063 or .094 1.60 or 2.39	.210 5.33	.360 9.14	.095 2.41	Phos. Brz., Pre-Tin	60802-2	60803-2	904554-1
						Phos. Brz., Gold ²	3-60802-1	3-60803-1	904554-1
B	.062-.058 1.57-1.47	.063 or .094 1.60 or 2.39	.210 5.33	.360 9.14	.095 2.41	Phos. Brz., Pre-Tin	60809-1	60874-1	904554-1
						Phos. Brz., Gold ²	3-60809-2	3-60874-2	904554-1
						Phos. Brz., Tin	60809-4	—	904554-1
B	.070-.066 1.78-1.68	.063 or .094 1.60 or 2.39	.210 5.33	.360 9.14	.095 2.41	Phos. Brz., Pre-Tin	60813-1	61018-1	904554-1
C	.050-.046 1.27-1.17	.063 or .094 1.60 or 2.39	.210 5.33	.360 9.14	.095 2.41	Phos. Brz., Gold ³	61038-1	61067-1	904554-1
D	.073-.067 1.85-1.70	.063 1.60	.210 5.33	.310 7.87	.095 2.41	Phos. Brz., Pre-Tin	60824-1	61097-1	904554-2
						Phos. Brz., Gold ²	3-60824-2	3-61097-2	904554-2
E	.050-.046 1.27-1.17	.063 1.60	.210 5.33	.310 7.87	.095 2.41	Phos. Brz., Gold ³	640967-2	—	904554-2
E	.061-.055 1.55-1.40	.047 1.19	.210 5.33	.310 7.87	.095 2.41	Phos. Brz., Pre-Tin	641944-1	—	—
E	.061-.055 1.55-1.40	.063 1.60	.210 5.33	.310 7.87	.095 2.41	Phos. Brz., Pre-Tin	60973-1	640394-1	904554-2
						Phos. Brz., Gold ²	3-60973-2	—	904554-2

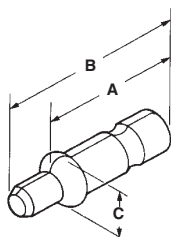
¹Use Insertion Tool Part No. 689141-1 for Loose Piece Pins

².000030 [0.00076] gold plated

³.000030 [0.00076] gold plated in disconnect area

Note: All above formed pins are made from .010 [0.25] thick material

.093 [2.36] Diameter Formed Pins

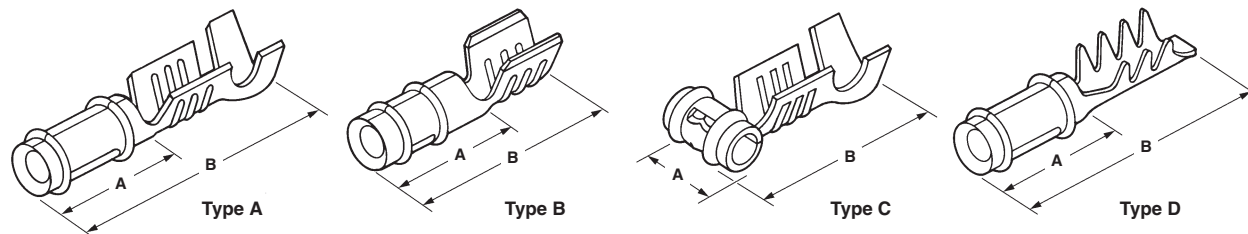


Hole Diameter	Pc Board Thickness	Dimensions			Material and Finish	Part Nos.		Insertion Machine
		A	B	C		Strip Form	Loose Piece	
.073-.067 1.85-1.70	.063 1.60	.305 7.75	.410 10.41	.115 2.92	Phos. Brz., Pre-Tin	61137-1	350491-1	904558-1

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

Printed Circuit Board Disconnects (Continued)

Receptacles



.058 [1.47] Diameter

Type	Wire Size Range		Insulation Diameter	Dimensions		Material and Finish	Part Nos.			
	AWG	mm ²		A	B		Strip Form ³	Loose Piece	Hand Tool	Insertion ⁵ Head
A	28-26	0.08-0.15	.035-.045 0.89-1.14	.155 3.94	.380 9.65	Phos. Brz., Pre-Tin	60354-7	—	—	452383-1
A	26-22	0.15-0.4	.035-.065 0.89-1.65	.155 3.94	.380 9.65	Phos. Brz., Gold ¹	60888-2	60983-1	90131-4	
						Phos. Brz., Pre-Tin	60888-1	60983-2		
						Be. Cu., Tin	60888-3	60983-4		
						Be. Cu., Gold ¹	60888-4	60983-3		
A	26-20	0.15-0.6	.040-.110 1.02-2.79	.155 3.94	.395 10.03	Be. Cu., Tin	350196-1 ⁴	—	—	—
A	24-20	0.2-0.6	.045-.070 1.14-1.78	.155 3.94	.380 9.65	Phos. Brz., Pre-Tin	60598-3	60789-1	91507-1	452383-1
						Be. Cu., Tin	60598-4	60789-2		
						Phos. Brz., Gold	60598-7	60789-3		
						Be. Cu., Gold ²	60598-9	60789-8		
A	24-20	0.2-0.6	.060-.090 1.52-2.29	.155 3.94	.395 10.03	Phos. Brz., Pre-Tin	60940-1	60986-1	90221-2	—
						Be. Cu., Tin	60940-2	—		
B	22-17	0.4-1.0	—	.155 3.94	.300 7.62	Be. Cu., Tin	640259-1	640024-1	90314-1	453850-1
C	26-22	0.15-0.4	.035-.065 0.89-1.65	.160 4.06	.330 8.38	Be. Cu., Gold ²	61513-1	350189-2	90131-4	
						Phos. Brz., Pre-Tin	61513-2	350189-1		
C	24-20	0.2-0.6	.045-.070 1.14-1.78	.160 4.06	.330 8.38	Be. Cu., Gold ²	61119-1	61276-1	91507-1	453850-1
						Phos. Brz., Pre-Tin	61119-2	61276-2		
						Be. Cu., Tin	61119-3	61276-3		
D	Tinsel Wire		.030-.040 0.76-1.02	.155 3.94	.380 9.65	Phos. Brz., Pre-Tin	350393-1	—	—	

.093 [2.36] Diameter

Type	Wire Size Range		Insulation Diameter	Dimensions		Material and Finish	Part Nos.			
	AWG	mm ²		A	B		Strip Form ³	Loose Piece	Hand Tool	Insertion Head
A	28-26	0.08-0.15	.032-.057 0.81-1.45	.255 6.48	.545 13.84	Phos. Brz., Tin	35022-1	—	—	452383-1
A	22-18	0.4-0.8	.060-.110 1.52-2.79	.255 6.48	.550 13.97	Phos. Brz., Tin	61291-1	61260-1	90135-2	452383-3
B	22-18	0.3-0.9	—	.255 6.48	.435 11.05	Phos. Brz., Tin	350015-2	—	—	435850-1

¹0.000030 [0.00076] gold plated

²0.000015 [0.00038] gold plated

³Machine applied; applicator required. For machine and applicator part numbers, call the Tooling Assistance Center at 1-800-722-1111.

⁴These receptacles have an overlap insulation crimp.

⁵Use the listed insertion head with either the Comp-U-Sert or II Insertion Machine No. 122300-1 or MIS Bench Machine No. 66280-4.

Note: Part Nos. 350221-1, 61291-1 and 61260-1 are made from .012 [0.30] thick material. All other receptacles are made from .010 [0.25] thick material.

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.