

Coax, Twinax & Triax PC Tail Contacts

General Description, Application Data

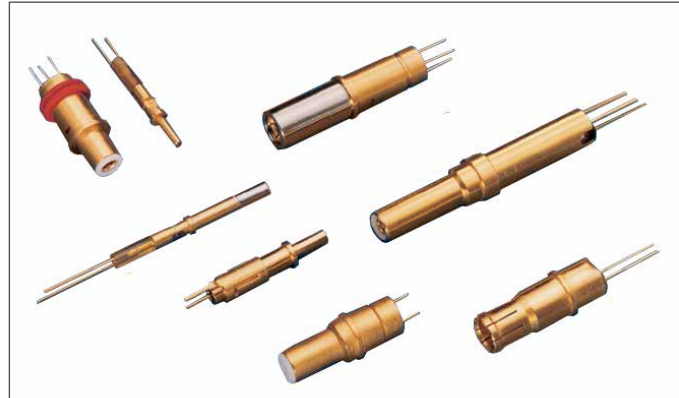
AMPHENOL PRINTED CIRCUIT TAIL CONTACTS

Contacts are currently supplied as follows:

- 8, 12 and 16 Coax
- 8, 10 and 12 Twinax
- 8 Triax (socket only)

PC Tail shielded contacts provide a cost effective packaging solution for limited space applications where connectors are attached to printed circuit boards. High reliability is assured with factory pre-assembled contacts and standardization termination to the board.

PC Tail contacts are available for MIL-DTL-38999 Series I and III circular connectors and also for ARINC 404, ARINC 600 and R27 rectangular connectors. The following pages show the available PC Tail contact part numbers for 38999 Circular connectors. See page 41 for information on twinax contacts for ARINC Rectangular connectors along with compatible cable terminations. Consult Amphenol Aerospace for further information on the applicable tooling for these contacts.



PC Tail Coax and Twinax Contacts for Attachment to Printed Circuit Boards

TYPICAL ELECTRICAL PERFORMANCE

Size 8, 12 & 16 PC Tail Coax Contacts

Contact Resistance:

- Center @ 1 Amp, 55 millivolts max. voltage drop @ 25°C
- Outer @ 1 Amp, 55 millivolts max. voltage drop @ 25°C
- Operating Frequency: 0–500 MHz

Dielectric Withstanding Voltage:

- Center to Outer 500 VAC Rms @ Sea Level

Insulation Resistance:

- 1,000 megohms minimum @ 25°C

TYPICAL ELECTRICAL PERFORMANCE

Size 8, 10 & 12 PC Tail Twinax Contacts

Contact Resistance:

- Center @ 1 Amp, 55 millivolts max. voltage drop @ 25°C
- Intermediate @ 1 Amp, 55 millivolts max. voltage drop @ 25°C
- Outer @ 1 Amp, 55 millivolts max. voltage drop @ 25°C
- Operating Frequency: 0–20 MHz

Dielectric Withstanding Voltage:

- Center to Intermediate 500 VAC Rms @ Sea Level
- Intermediate to Outer 500 VAC Rms @ Sea Level

Insulation Resistance:

- 1,000 megohms minimum @ 25°C

TYPICAL ELECTRICAL PERFORMANCE

Size 8 PC Tail Triax Contacts

Contact Resistance:

- Center @ 1 Amp, 55 millivolts max. voltage drop @ 25°C
- Intermediate @ 1 Amp, 55 millivolts max. voltage drop @ 25°C
- Outer @ 1 Amp, 55 millivolts max. voltage drop @ 25°C
- Operating Frequency: 0–500 MHz

Dielectric Withstanding Voltage:

- Center to Intermediate 500 VAC Rms @ Sea Level
- Intermediate to Outer 500 VAC Rms @ Sea Level

Insulation Resistance:

- 1,000 megohms minimum @ 25°C



Size 8, PC Tail Twinax Socket Contact for use in D38999 Connectors



D38999 Connector with PC Tail Coax Contacts, Sealing Plugs in unused contact cavities and PC Tail Alignment Disc

Coax, Twinax & Triax PC Tail Contacts

Contact Part Number Guide

PC TAIL COAX, TWINAX, AND TRIAX CONTACTS FOR USE IN D38999 SERIES I & III CONNECTORS						
Size	Tails*	Comments	PC Tail Coax Contact Part Number	PC Tail Twinax Contact Part Number	PC Tail Triax Contact Part Number	
8 Pin	PCB 2 tails		21-033733-007			
		For epoxy filled connector	21-033733-002			
		For epoxy filled connector	21-033733-004			
			21-033733-009			
			21-033733-008			
	PCB 4 outer tails, 1 inner		21-033733-005			
	PCB 3 tails	M39029/90/91 Interface			21-033967-115	
					21-033967-125	
					21-033967-015	
					21-033967-045	
					21-033967-055	
					21-033967-065	
					21-033967-085	
					21-033967-095	
	PCB 9 tails				P-209550†	
					P-209532-1	
					P-209532-2	
	PCB 3 tails					21-033828-001
					21-033828-021	
					21-033828-041	
8 Socket	PCB 2 tails		21-033426-001			
		M39029/91 Interface Outer body grounded to shell			DB-109002	
					21-033919-015	
					21-033919-025	
	PCB 3 tails				21-033921-015	
					21-033921-045	
					21-033921-035	
					21-033921-065	
					21-033921-075	
					21-033921-115†	
		AS39029/114 Type (with hood)			21-033479-001	
		AS39029/114 Type (with hood)			21-033479-021	
	M39029/90/91 Interface .040 dia. tails			21-033921-105†		
	PCB 2 tails	Outer body grounded to shell				21-033840-021
		Outer body grounded to shell				21-033841-001
PCB 3 tails					21-033840-001	
10 Pin	PCB 2 tails	Outer body grounded to shell		21-033844-002†		

* Consult Amphenol Aerospace for tail configurations and tail diameters.

† Consult Amphenol Aerospace for current release of this contact.

Coax, Twinax & Triax PC Tail Contacts

Contact Part Number Guide

PC TAIL COAX, TWINAX, AND TRIAX CONTACTS FOR USE IN D38999 SERIES I & III CONNECTORS				
Size	Tails*	Comments	PC Tail Coax Contact Part Number	PC Tail Twinax Contact Part Number
12 Pin	PCB 2 tails		21-033686-008	
		Outer tail clip type	21-033686-009	
			21-033686-005	
		Outer tail clip type	21-033686-010	
			21-033686-013	
		For epoxy filled connector	21-033687-006	
			21-033687-007	
	21-033686-016†			
12 Socket	PCB 2 tails		21-033614-001	
			21-033614-021	
			21-033614-041	
		Outer tail clip type	21-033611-003	
	Outer tail clip type, M38999 Series II	21-033430-001		
	M38999 Series II	21-033430-021		
PCB 3 tails		21-033440-001		
	M38999 Series II	21-033430-041		
16 Pin	PCB 1 tail	Outer body grounded to shell	21-033634-015	
		Outer body grounded to shell	21-033634-035	
			21-033634-045	
	PCB 2 tails		21-033856-015	
			21-033856-065	
			21-033386-001	
PCB 90 degree, 2 tails		21-033856-025		
16 Socket	PCB 2 tails		21-033857-001	
			21-033857-008	
			21-033857-007	
			21-033610-001	
			21-033610-002	
			21-033441-001	
		M38999 Series II	21-033606-001	
			21-033606-021†	
			21-033606-031†	
				21-033610-003
		21-033857-003		
12 Pin	PCB 4 tails	JN1104 Interface		21-033633-001†**
				21-033633-002**
				21-033633-006**
				21-033633-007**
12 Socket	PCB 4 tails	M38999 Series II, JN1104 Interface		21-033393-006**
				21-033393-005**
				21-033433-001**

* Consult Amphenol Aerospace for tail configurations and tail diameters.

** Size 12 twinax and triax contacts are intermatable.

† Consult Amphenol Aerospace for current release of this contact.