

Coax, Twinax & Triax PC Tail Contacts for Subminiature Cylindricals

general description, application data

Amphenol® Printed Circuit Tail 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 cylindrical connectors and also for ARINC 404, ARINC 600 and R27 rectangular connectors. The following pages (36 & 37) show the available PC Tail contact part numbers for Subminiature Cylindricals. See the Rectangular Section of this catalog 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.

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

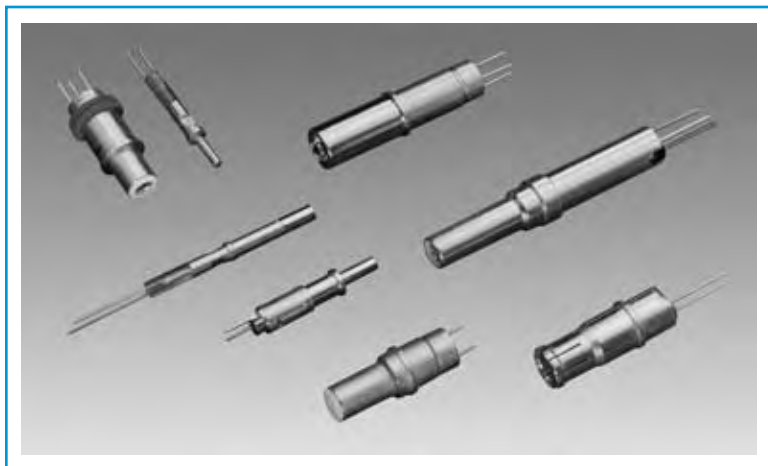
Dielectric Withstanding Voltage:

Center to Intermediate 500 VAC Rms @ Sea Level

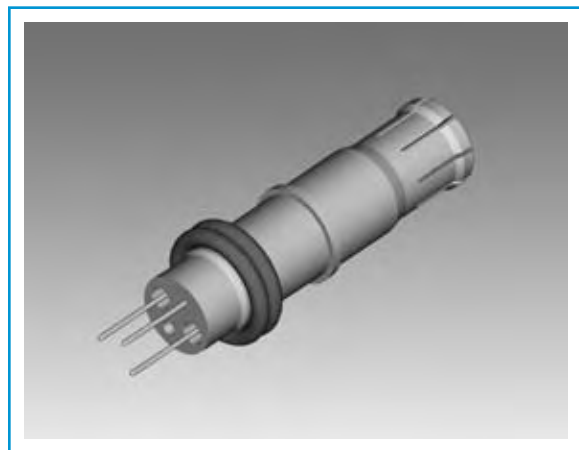
Intermediate to Outer 500 VAC Rms @ Sea Level

Insulation Resistance

1,000 megohms minimum @ 25°C



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



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 for Subminiature Cylindricals application data, cont.

PC TAIL COAX, TWINAX, AND TRIAX CONTACTS FOR USE IN D38999 SERIES I & III CONNECTORS					
Size	PC Tail Coax Contact Part Number	PC Tail Twinax Contact Part Number	PC Tail Triax Contact Part Number	Tails*	Comments
8 Pin	21-33733-7			PCB 2 tails	
8 Pin	21-33733-2			PCB 2 tails	For epoxy filled connector
8 Pin	21-33733-4			PCB 2 tails	For epoxy filled connector
8 Pin	21-33733-5			PCB 4 outer tails, 1 inner	
8 Pin	21-33733-9			PCB 2 tails	
8 Pin	21-33733-8			PCB 2 tails	
8 Socket	21-33426-1			PCB 2 tails	
8 Pin		21-33967-115		PCB 3 tails	M39029/90/91 Interface
8 Pin		21-33967-125		PCB 3 tails	
8 Pin		21-33967-15		PCB 3 tails	
8 Pin		21-33967-45		PCB 3 tails	
8 Pin		21-33967-55		PCB 3 tails	
8 Pin		21-33967-65		PCB 3 tails	
8 Pin		21-33967-85		PCB 3 tails	
8 Pin		21-33967-95		PCB 3 tails	
8 Pin		P-209550†		PCB 3 tails	
8 Pin		P-209532-1		PCB 9 tails	
8 Pin		P-209532-2		PCB 9 tails	
8 Socket		21-33921-15		PCB 3 tails	
8 Socket		21-33921-75		PCB 3 tails	
8 Socket		21-33921-35		PCB 3 tails	
8 Socket		21-33921-65		PCB 3 tails	
8 Socket		21-33921-115†		PCB 3 tails	
8 Socket		21-33921-105†		PCB 3 tails	M39029/90/91 Interface .040 dia. tails
8 Socket		DB-109002		PCB 2 tails	M39029/91 Interface Outer body grounded to shell
8 Socket		21-33919-15		PCB 2 tails	
8 Socket		21-33919-25		PCB 2 tails	
8 Pin			21-33828-1	PCB 3 tails	
8 Pin			21-33828-21	PCB 3 tails	
8 Pin			21-33828-41	PCB 3 tails	
8 Socket			21-33840-1	PCB 3 tails	
8 Socket			21-33840-21	PCB 2 tails	Outer body grounded to shell
8 Socket			21-33841-1	PCB 2 tails	Outer body grounded to shell
10 Pin		21-33844-2†		PCB 2 tails	Outer body grounded to shell

* Consult Amphenol Aerospace for tail configurations and tail diameters.

† Consult Amphenol Aerospace for current release of this contact.

CONTACT ORDERING: Example number given in chart 21-33733-7 should be ordered as 21-033733-007; example number given in chart 21-33967-115 should be ordered as 21-033967-115; example number given in chart 21-33840-21 should be ordered as 21-033840-021. Adding Zeros is necessary for Amphenol ordering process on all contact numbers.

Coax, Twinax & Triax PC Tail Contacts for Subminiature Cylindricals application data, cont.

PC TAIL COAX, TWINAX, AND TRIAX CONTACTS FOR USE IN D38999 SERIES I & III CONNECTORS					
Size	PC Tail Coax Contact Part Number	PC Tail Twinax Contact Part Number	PC Tail Triax Contact Part Number	Tails*	Comments
12 Pin	21-33686-8			PCB 2 tails	
12 Pin	21-33686-9			PCB 2 tails	Outer tail clip type
12 Pin	21-33686-5			PCB 2 tails	
12 Pin	21-33686-10			PCB 2 tails	
12 Pin	21-33686-13			PCB 2 tails	Outer tail clip type
12 Pin	21-33687-6			PCB 2 tails	For epoxy filled connector
12 Pin	21-33687-7			PCB 2 tails	
12 Pin	21-33686-16†			PCB 2 tails	
12 Socket	21-33614-1			PCB 2 tails	
12 Socket	21-33614-21			PCB 2 tails	
12 Socket	21-33614-41			PCB 2 tails	
12 Socket	21-33611-3			PCB 2 tails	Outer tail clip type
12 Socket	21-33440-1			PCB 3 tails	
12 Socket	21-33430-1			PCB 2 tails	Outer tail clip type, M38999 Series II
12 Socket	21-33430-21			PCB 2 tails	M38999 Series II
12 Pin		21-33633-1†**		PCB 4 tails	JN1104 Interface
12 Pin		21-33633-2**		PCB 4 tails	
12 Pin		21-33633-6**		PCB 4 tails	
12 Pin		21-33633-7**		PCB 4 tails	
12 Socket		21-33393-6**		PCB 4 tails	
12 Socket		21-33393-5**		PCB 4 tails	
12 Socket		21-33433-1**		PCB 4 tails	M38999 Series II, JN1104 Interface
16 Pin	21-33856-15			PCB 2 tails	
16 Pin	21-33856-25			PCB 90 degree, 2 tails	
16 Pin	21-33856-65			PCB 2 tails	
16 Pin	21-33634-15			PCB 1 tail	Outer body grounded to shell
16 Pin	21-33634-35			PCB 1 tail	Outer body grounded to shell
16 Pin	21-33634-45			PCB 1 tail	
16 Pin	21-33386-1			PCB 2 tails	
16 Socket	21-33857-1			PCB 2 tails	
16 Socket	21-33857-8			PCB 2 tails	
16 Socket	21-33857-7			PCB 2 tails	
16 Socket	21-33610-1			PCB 2 tails	
16 Socket	21-33610-2			PCB 2 tails	
16 Socket	21-33441-1			PCB 2 tails	M38999 Series II
16 Socket	21-33606-1			PCB 2 tails	
16 Socket	21-33606-21†			PCB 2 tails	
16 Socket	21-33606-31†			PCB 2 tails	
16 Socket	21-33610-3			PCB 2 tails	
16 Socket	21-33857-3			PCB 2 tails	

* 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.

CONTACT ORDERING: Example number given in chart 21-33633-7 should be ordered as 21-033633-007; example number given in chart 21-33686-10 should be ordered as 21-033686-010. Adding Zeros is necessary for Amphenol ordering process on all contact numbers.