

Coax Contacts with High Frequency Range

DC to 40 GHz

Overview

HIGH FREQUENCY COAX CONTACTS WITH "FLOAT MOUNT" TECHNOLOGY

Amphenol Aerospace now offers DC to 40 GHz size 8 coaxial contacts for the D38999 housing and standard inserts. These contacts can be terminated to a multiple of cable types depending on the application.

By using standard interfaces that are based on MIL-STD-348 and can be installed in any D38999 size 8 insert, Amphenol has transformed the circular connector industry. This technology expands the use of D38999 connectors to include the microwave transmission lines within the multi-port configuration without change to a custom connector.

The high frequencies are maintained by Amphenol's unique "Float Mount" technology. This technology allows for consistent microwave performance while maintaining tight mechanical tolerances. This consistency provides superior electrical performance and, unlike other blindmate connectors, will maintain an accurate phase length when mated. See page 250 for specifications, performances and ordering of this contact.



High Frequency Size 8 Coax Contacts with "Float Mount" Technology

HF38999 - D38999 Connectors with High Frequency Coax Contacts



Twinax Contacts for Printed Circuit Board Applications

PC TAIL TWINAX CONTACTS

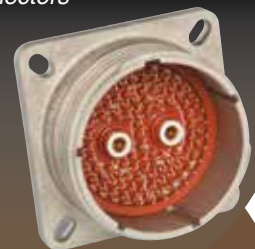
Amphenol provides Printed Circuit Tail Twinax contacts for MIL-DTL-38999 Series I and III circular connectors and also for ARINC 404 and ARINC 600 rectangular connectors. High reliability is assured with factory pre-assembled contacts and standardized termination to the board.



Variety of PC Tail Twinax Contacts

See pages 255-257 for performance data and ordering of PC tail twinax contacts, and consult Amphenol Aerospace for further information needed. Also see the Printed Circuit Board and the Series I, II, III section for MIL-DTL-38999 connectors.

D38999 Connectors with PC Tail Twinax Contacts



Printed Circuit Twinax Contacts provide a cost effective packaging solution for limited space applications where connectors are attached to printed circuit boards.

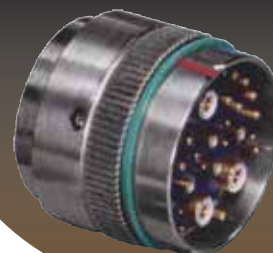
TRIAx CONTACTS WITH THREE CONDUCTORS FOR USE WITH TRIAX CABLE

Amphenol supplies sizes 8, 10 and 12 triax contacts for use in MIL-DTL-38999 Series I, II and III connectors. Triax contacts provide additional shielding when terminated to triax cable having solid or stranded center conductors. See cable compatibility in the Cable Usage Guide and performance data and ordering of triax contacts on pages 254-257. Each of the three conductors of the triax contact is separated by dielectric insulation to isolate ground planes and to improve shielding effectiveness. All conductors are crimp terminated for high reliability and ease of assembly. Triax contacts may be specified for direct connection to printed circuit boards. For maximum system flexibility, triax contacts may be mixed with coax, twinax and power contacts in a single connector.



Triax Contacts

Rail Launch MIL-STD-1760 Connector with Triax Contacts



38999

III
HD
Duallok
II
I
SJT
Accessories
Aquacon
Herm/Seal
PCB

HIGH SPEED
Fiber Optics
Contacts Connectors Cables

EMI Filter Transient

26482 Matrix 2

83723 III Matrix | Pyle

26500 Pyle

5015 Crimp Rear Release Matrix

22992 Class I

Back-Shell

Options Others