

PIC Wire & Cable ARINC 404/600 & M39029 RF COAXIAL CONTACTS

The table below lists PIC ARINC 404/600 and M39029 (MIL-DTL-38999 Series I, III Connector) RF Coaxial contacts for flexible RF coaxial cable, which are available from stock. All of PIC Connectors are made from high quality materials and exhibit excellent electrical properties such as low VSWR. Virtually all of PIC Connectors are manufactured to include a weather-proofing ferrule to deter moisture ingress into the connector body. ARINC Size 1 contacts are provided with a piece of adhesive heat shrink tubing which provides additional weather proofing and acts as a strain relief.

Applicable Standards

ARINC SPECIFICATION 600, AIR TRANSPORT AVIONICS EQUIPMENT INTERFACES
ARINC SPECIFICATION 404, CONNECTORS, RACK AND PANEL, RECTANGULAR REAR RELEASE CRIMP CONTACTS
MIL-C-39029, CONTACTS, ELECTRICAL CONNECTOR, GENERAL SPECIFICATION FOR

SPECIFICATIONS

(Per ARINC or MIL-C-39029 Specifications)

ELECTRICAL (Unless Otherwise Noted on Individual Specification Sheet)

Conn. Type	600 SIZE 1	600 MOD SIZE 1	SIZE 5	SIZE 8	SIZE 9	SIZE 16	404 SIZE 1	M39029 SIZE 8	M39029 SIZE 16
Frequency Range	0 – 5 GHz	0 – 5 GHz	0 – 2 GHz	0 – 2 GHz	0 – 2 GHz	0 – 2 GHz	0 – 5 GHz	0 – 2 GHz	0 – 2 GHz
Voltage Rating	1000 VRMS	1000 VRMS	325 VRMS	325 VRMS	325 VRMS	325 VRMS	1000 VRMS	325 VRMS	325 VRMS
Insulation Resistance (Min.)	5000 Megohms	5000 Megohms	5000 Megohms	5000 Megohms	5000 Megohms	5000 Megohms	5000 Megohms	5000 Megohms	5000 Megohms
Dielectric Withstanding Voltage	2500 VRMS	2500 VRMS	750 VRMS	1000 VRMS	750 VRMS	750 VRMS	2500 VRMS	750 VRMS	750 VRMS
VSWR (Max)	1.7:1 @ 5 GHz	1.7:1 @ 5 GHz	1.5:1 @ 2 GHz	1.3:1 @ 2 GHz	1.3:1 @ 2 GHz	1.3:1 @ 2 GHz	1.7:1 @ 5 GHz	1.3:1 @ 2 GHz	1.3:1 @ 2 GHz
Insertion loss (Max)	0.3 dB @ 5 GHz	0.3 dB @ 5 GHz	0.3 dB @ 2 GHz	0.3 dB @ 2 GHz	0.3 dB @ 2 GHz	0.3 dB @ 2 GHz	0.3 dB Max @ 5 GHz	0.3 dB @ 2 GHz	0.3 dB @ 2 GHz

MATERIAL (Unless Otherwise Noted on Individual Specification Sheet)

Conn. Type	600 SIZE 1	600 MOD SIZE 1	SIZE 5	SIZE 8	SIZE 9*	SIZE 16	404 SIZE 1	M39029 SIZE 8	M39029 SIZE 16
Body	Brass ASTM-B16	Brass ASTM-B16	Brass ASTM-B16	Brass ASTM-B16	Brass ASTM-B16	Brass ASTM-16	Brass ASTM-B16	Brass ASTM-B16	Brass ASTM-B16
Ferrule	Brass ASTM-B16	Brass ASTM-B16	Brass ASTM-B16	Brass ASTM-B16	Brass ASTM-B16	Brass ASTM-B16	Brass ASTM-B16	Brass ASTM-B16	Brass ASTM-B16
Dielectric	TFE ASTM-D1710	TFE ASTM-D1710	TFE ASTM-D1710	TFE ASTM-D1710	TFE ASTM-D1710	TFE ASTM-D1710	TFE ASTM-D1710	TFE ASTM-D1710	TFE ASTM-D1710
Center Contact (Pin)	N/A	N/A	Brass ASTM-B16	Brass ASTM-B16	Brass ASTM-B16	Brass ASTM-B16	N/A	Brass ASTM-B16	Brass ASTM-B16
Center Contact (Socket)	Beryllium Copper ASTM-196	Beryllium Copper ASTM-196	Beryllium Copper ASTM-196	Beryllium Copper ASTM-196	N/A	N/A	Beryllium Copper ASTM-196	Beryllium Copper ASTM-196	N/A

All center contacts are gold plated per MIL-G-45204B

* Fits MIL-C-81659 Insert