

COAXICON Contacts

Size 1 Contacts

(For use in ARINC 404 and ARINC 600 Connectors)

Performance Characteristics

Nominal Impedance — 50 ohms

Frequency Range — 0 to 5 GHz

Operating Temperature —
-85°F to 329°F [-65°C to +165°C]

Operating Voltage (Rated) —
1000 VAC rms, 60 Hz at Sea Level

Contact Resistance (Milliohms) —
1.0 max. — Center Contact
0.2 max. — Outer Contact

Insulation Resistance — 5,000
megohms min. @500 vdc per MIL-STD-
1344, Method 3003 or MIL-STD-202,
Method 302, Cond. B

Dielectric Withstanding Voltage (60 Hz, rms) —

RG 214/U
2500 at Sea Level
RG 142/U
1900 at Sea Level

VSWR — 1.35 to 1.00 at 5 GHz

Insertion/Withdrawal Force —
Insertion (max.) 15 lb [66.72 N]
Withdrawal (min.) 1 lb [4.45 N]

Cable Retention —
RG 214/U
125 lb [556 N] min.
RG 142/U
60 lb [266.9 N] min.

Thermal Shock — per MIL-STD-1344,
Method 1003, Cond. A or MIL-STD-202,
Method 107, Cond. A

Physical Shock — per MIL-STD-
1344, Method 2004, Cond. D or MIL-
STD-202, Method 213, Cond. D except
300 G max.

Vibration — per MIL-STD-1344,
Method 2005, Cond. VI, Letter J or MIL-
STD-202, Method 204, Cond. E except
42 G max.

Humidity Temperature Cycling —
per MIL-STD-1344, Method 1002, Type
II, Cond. A or MIL-STD-202, Method 106

Salt Spray — per MIL-STD-1344,
Method 1001, Cond. B or MIL-STD-202,
Method 101, Cond. B

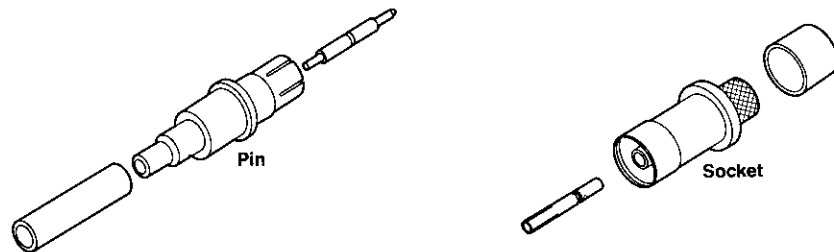
Temperature Life — per MIL-STD-
1344, Method 1005, Cond. D or MIL-
STD-202, Method 108, Cond. D

Material and Finish

Contact — Beryllium Copper per
ASTM-B-196/ASTM-B-197, Brass per
ASTM-B-16, TEFLON per ASTM-D-
1710, Silicon Rubber per ZZ-R-765,
Gold plate per MIL-G-45204, Nickel
plate per QQ-N-290

Ferrule — Copper per ASTM-B-188,
Tin plate per ASTM-B-545

Size 1 (Captivated)



Contact Size	RG/U Cable	Contact Part No.		"O" Crimp Tooling			Compression Crimp Tooling		
		Pin	Socket	Tool (M22520/)	Positioner/Die	Ferrule	Tool (M22520/)	Locator (M22520/)	Dies (M22520/)
1	402 Semi-Rigid .141 [3.58]	225837-1	—	601965-1 (2-01)	1-601966-9	91905-1*	—	—	—
	402 Semi-Rigid .141 [3.58]	222018-1	—	—	—	—	59980-1 (36-01)	220220-2 (36-06)	312253-1 (36-03)
	405 Semi-Rigid .086 [2.18]	222018-2	—	—	—	—	59980-1 (36-01)	220220-2 (36-06)	312253-2 (36-02)
	214	—	225831-1	220015-1	—	220015-1	—	—	—
	142, 142A, 142B	—	225831-3	91902-1*	—	91902-1*	—	—	—
393	—	225831-6	220015-1	—	220015-1	—	—	—	

* SDE die used with tool frame 354940-1