



SIC

Small Inline Connector

SIMPLIFICATION IS OUR INNOVATION

Radiall 

INSERT ARRANGEMENTS

- 2 contacts size 22
- 2 contacts size 20
- 2 contacts size 16

CODINGS

A, B, C, D, E, F (per size)

PLUG CONNECTORS

PART NUMBER	CODING #						DESCRIPTION	CONTACT	RADIALL CONTACT	SEAL PLUG
69175010#	0	1	2	3	4	5	SIC Plug 2 Contacts # 16 PIN Not Included	M39029/58-364	Not Included	691750930 (Not Included)
69175011#	0	1	2	3	4	5	SIC Plug 2 Contacts # 20 PIN Not Included	M39029/58-363	Not Included	691750931 (Not Included)
69175012#	0	1	2	3	4	5	SIC Plug 2 Contacts # 22 PIN Not included	M39029/58-360	Not Included	691750932 (Not Included)
69175013#	0	1	2	3	4	5	SIC Plug 2 Contacts # 16 PIN Included	M39029/58-364	670230	691750930
69175014#	0	1	2	3	4	5	SIC Plug 2 Contacts # 20 PIN Included	M39029/58-363	670220	691750931
69175015#	0	1	2	3	4	5	SIC Plug 2 Contacts # 22 PIN Included	M39029/58-360	670200	691750932

RECEPTACLE CONNECTORS

PART NUMBER	CODING #						DESCRIPTION	CONTACT	RADIALL CONTACT	SEAL PLUG
	A	B	C	D	E	F				
69175060#	0	1	2	3	4	5	SIC Receptacle 2 Contacts # 16 Socket, Not Included	M39029/57-358	Not Included	691750930 (Not Included)
69175061#	0	1	2	3	4	5	SIC Receptacle 2 Contacts # 20 Socket, Not Included	M39029/57-357	Not Included	691750931 (Not Included)
69175062#	0	1	2	3	4	5	SIC Receptacle 2 Contacts # 22 Socket, Not Included	M39029/57-354	Not Included	691750932 (Not Included)
69175063#	0	1	2	3	4	5	SIC Receptacle 2 Contacts # 16 Socket, Included	M39029/57-358	670380	691750930
69175064#	0	1	2	3	4	5	SIC Receptacle 2 Contacts # 20 Socket, Included	M39029/57-357	670370	691750931
69175065#	0	1	2	3	4	5	SIC Receptacle 2 Contacts # 22 Socket, Included	M39029/57-354	670350	691750932

ACCESSORIES

PART NUMBER	DESCRIPTION
691750902	Platform to Receive the Mated SIC Connectors
691750936	O-Ring for SIC Plug
691750920	Fly Away Cap for SIC Plug
691750911	Fly Away Cap for SIC Receptacle

CABLE USAGE

- **Wire AWG20:** Diam. 0.047 to 0.057 inch (1.19-1.45 mm)
- **Wires AWG16-18:** Diam. 0.056 to 0.070 inch (1.42-1.78 mm)
- **Wires AWG22-24:** Diam. 0.033 to 0.048 inch (0.84 -1.22 mm)
- **Mounting instruction:** MICT9100000

INTRODUCTION

Designed for aerospace OEMs, MROs and aircraft manufacturers, Radiall's SIC connector enables fast, certified modifications or repairs to EWIS harnesses—without compromising airworthiness or requiring a full harness redesign.

This compact, sealed and shielded 2-pin inline connector delivers robust EMI protection and a fully qualified wire-to-wire connection. Its crimped design offers a safer and more reliable alternative to traditional splices, making it ideal for efficient and airworthy harness modifications.

Radiall's SIC connector is a small, sealed and shielded inline aerospace grade connector for two pins, ensuring a wire to wire connection fully airworthiness qualified.



APPLICATION

Ideal for harness modifications, SIC connector eliminates the need to alter the original harness design.

- *Unlike standard splices, it is simple to disconnect, offering greater flexible.*
- *Eliminates the need for soldering.*
- *Securely fits into its dedicated cradle, preventing cable damage.*





ADVANTAGES

FUNCTION	ADVANTAGE	BENEFIT FOR CUSTOMER
Wiring	Full Crimp Solution	No Soldering Process Better Reliability
Wiring	Shielded Cable Compatible	EMI Protection Grounding Continuity
Installation	Perfectly Seated in its Cradle	No Cable Injury
360° Shielded	Protected Against Lightning Strikes	High Airworthiness Grade Compatibility
Sealing	Altitude Immersion	-





MECHANICAL CHARACTERISTICS

- **Vibrations:** no discontinuity > 1 μ sec
- **Contact retention:** 20 pds for #16 / 15 pds for #20 / 12 pds for #22 (EIA/ECA-364-29)
- **Fluid immersion:** per standard EIA/ECA-364-10
- **Durability:** 50 mating cycles (EIA/ECA 364-09)
- **Bundle flexing:** R=8 inches

ENVIRONMENTAL CHARACTERISTICS

- **Flammability:** per standard BSS 7230
- **Smoke:** per standard BSS 7238
- **Temperature cycling:** -65 °C +150 °C (EIA-364-32 Method A test cond IV)
- **Temperature life:** +150 °C (EIA/ECA 364-17 method A 1000 hours)
- **Salt spray:** 48 hours (EIA/ECA-364-26 test condition B)
- **Altitude immersion:** 25,000 ft / 375 mbar (EIA-364-03)
- **Humidity:** 24 days (EIA-364-31 Method IV)

ELECTRICAL CHARACTERISTICS

- **Current rating:** from 1 to 15 A for use with wire size from AWG28 to 16
- **Insulation resistance at elevated T°:** > 200 Mohms (EIA/ECA-364-21 - Temperature +150 °C)
- **Insulation resistance at ambient T°:** > 5,000 Mohms (EIA/ECA-364-21)
- **Dielectric withstanding voltage:** 1500 Vac (EIA/ECA-364-20)
- **Contact resistance:** see contacts M39029/57 and M39029/58
- **Shielding effectiveness:** > 69 dB @ 500 Mhz (IEC 62 153-4-7)
- **Shell-to-shell conductivity:** < 4 Mohms
- **Resistance to indirect lightning strikes:** type B Ipk 3.6 kA (EIA-364-75)
- **Arc track resistance:** 150 Vac (ASTM D3638)
- **EMI shielding level:** > 69 dB @ 500 Mhz

SIMPLIFICATION is our INNOVATION

We advance the design and engineering process for innovators, groundbreakers and pioneers of technology. We reduce weight, improve durability and streamline installation to provide leading-edge connectors that drive product performance.

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GLOBAL PRESENCE

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