

Precision 3G 1.0/2.3 co-axial connectors double wiring densities in 3G-SDI Serial Digital applications. Meet SMPTE 424M Standard.

Cambridge Connectors has completely re-engineered the 1.0/2.3 connector to operate in high speed 3G-SDI broadcast environments (SMPTE 424M). With a pitch of 8mm, up to twice as many of these compact connectors can be installed compared to traditional BNC connectors.

The secure latching mechanism combines high connection integrity with a simple push/pull operation. Styles include PCB edge mounting, right angle mounting and straight end launch types – with bulkhead mounting option.

Typical reflection factor performance (VSWR) for straight versions is between 1.02 (DC - 1.5GHZ) and 1.06 (1.5 – 3.0GHZ) ; the right angle version is between 1.22 (DC – 1.5GHz) and 1.28 (1.5 – 3.00GHZ).

The connector comes with gold plating finish as standard and is RoHS compliant. In addition to SDI, HDI and 3G-SDI digital broadcast use, this low profile 1.0/2.3 connector is ideal for industrial process control, data acquisition and high speed communication applications especially where high wiring densities and secure connections are crucial.

To complete the range compatible cable connectors; 1.0/2.3 to BNC adaptors; 1.0/2.3 to BNC adaptor leads and fully assembled BNC to BNC, 1.0/2.3 to BNC Patch Leads are also available.

Features

- Meet SMPTE 424M Standard
- 8mm pitch can double wiring densities
- Latching style provides added connection reliability

Specification -

Electrical

Nominal Impedance	75 Ohm
Frequency Range	0 - 3.0 GHz
Working Voltage	250Vrms
Dielectric Withstanding Voltage	750Vrms

Reflection Factor	DC-1.5GHz (VSWR)	1.5 - 3.0 GHz (VSWR)
Right Angle 1.0/2.3	1.22	1.28
PCB Edge Mount 1.0/2.3	1.02	1.05
Top Entry Bulkhead 1.0/2.3	1.03	1.06
Top Entry 1.0/2.3	1.03	1.06

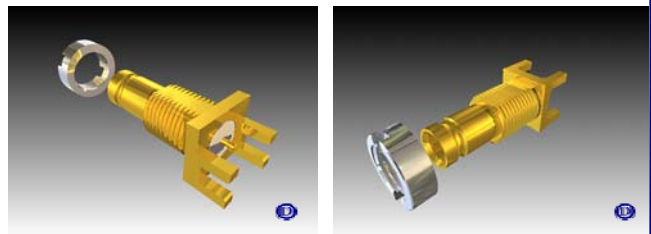
Contact Resistance	Centre Contact 4.0 m ohm
Insulation Resistance	> 1000 meg ohm

Materials

Centre Pin	BeCu / 10u" Au
Body finish	Standard — Brass/Au
Insulators	PTFE

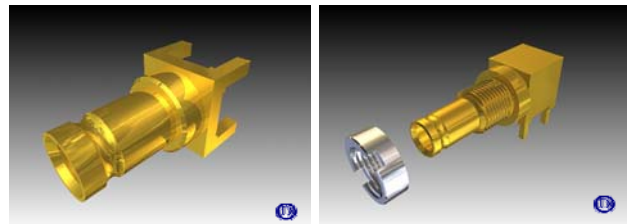
Environmental

Temperature Range	- 65 to +85° C
Mating Cycles	500



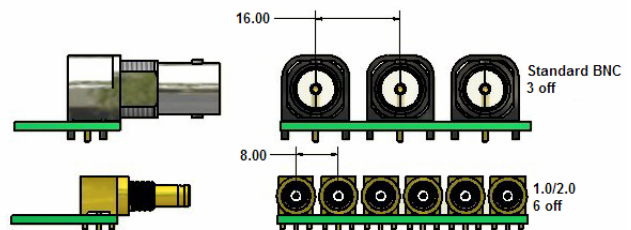
PCB Edge Mount 1.0/2.3

Top Entry Bulk Head 1.0/2.3



Top Entry 1.0/2.3

Right Angle PCB Mount 1.0/2.3



Comparison between BNC and 1.0/2.3 connectors

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Cable terminated Precision 3G 1.0/2.3 connectors and patch leads to meet SMPTE 424M Standard

To complement these products Cambridge Connectors also produces: -

- Precision 75 ohm cable terminated connectors for a variety of cable types
- 1.0/2.3 to BNC adaptors
- 1.0/2.3 to BNC adaptor leads
- Fully assembled Patch Cables in standard and custom lengths

