

Precision 75 ohm 1.0/2.3 co-axial connectors double wiring densities in 3G-HDI Serial Digital applications.

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

An additional benefit is the latching mechanism which provides high connection integrity. 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

- For use in SDI, HDI, 3G-SDI digital broadcast applications
- 8mm pitch can double wiring densities
- Latching style provides added connection reliability

Specification -

Electrical

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

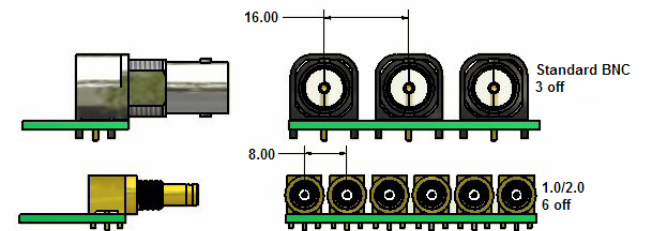
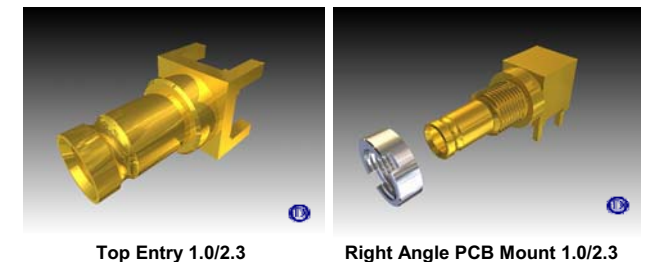
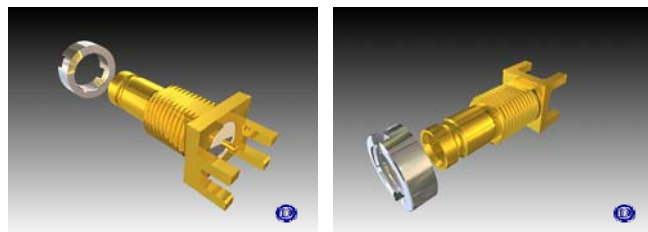
Contact Resistance	Centre Contact 4.0 m ohm
Insulation Resistance	> 1000 meg ohm

Materials

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

Environmental

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



Comparison between BNC and 1.0/2.3 connectors

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Cable terminated Precision 75 ohm 1.0/2.3 connectors and patch leads

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

