CAMBRIDGE ELECTRONIC INDUSTRIES

75Ω BNC Plug 12GHz Cable Mount for Cable Group AS and BD

Part Number XBT-1068-BGXX
Issue 1.0

General Description

The XBT-1068-BGAS is a 12 GHz cable-mounted professional plug designed for high-frequency broadcast applications, supporting 4K/Quad HD and Ultra HD video transmission in accordance with SMPTE ST 2082 and CoaXPress CXP12 standards.



For optimum high-frequency electrical performance, the centre contact is recommended to be soldered to the cable, providing a reliable low-loss signal connection. The rear ferrule is crimped onto the cable to provide a secure and mechanically robust cable termination suitable for professional broadcast applications.

The connector is available for a number of different cable sizes including:

- XBT-1068-NGAS - Belden 1694A, 1694F, & 4694R, Canford SDV-F-R, Canford SDV-XF, RG6
- XBT-1068-NGBD - Belden 1794A, 4794R

Electrical

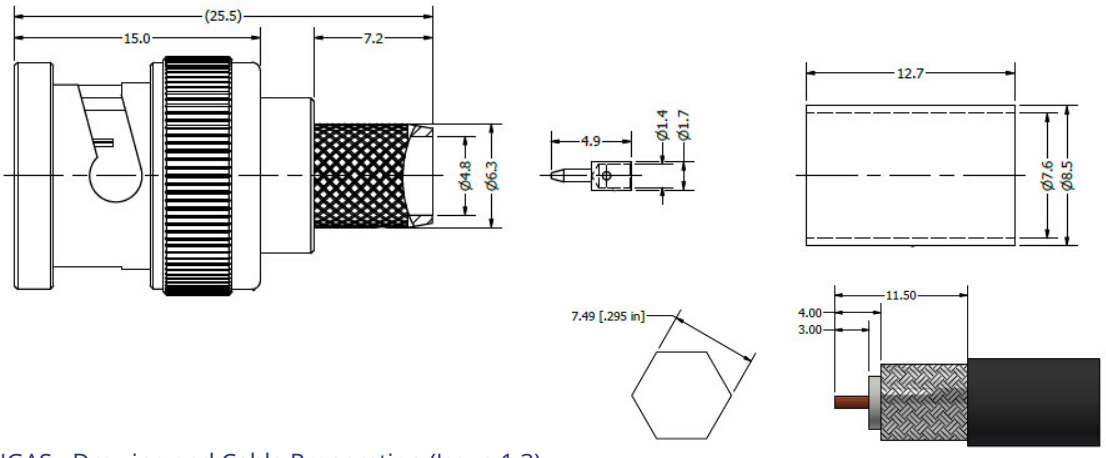
Impedance		75Ω
Frequency Range		0-12GHz
Working Voltage		500Vrms
Reflection Factor (VSWR)		1.09 (max) 0-6GHz 1.25 (max) 6-12GHz
Dielectric Withstanding Voltage		1500Vrms
Insulation Resistance		≥5000MΩ
Contact Resistance	Centre Contact	≤ 1.5mΩ
	Outer Contact	≤ 2.5mΩ

Materials

Centre Pin	PhosBronze / Au
Metal Parts	Brass/Ni
Insulators	PTFE

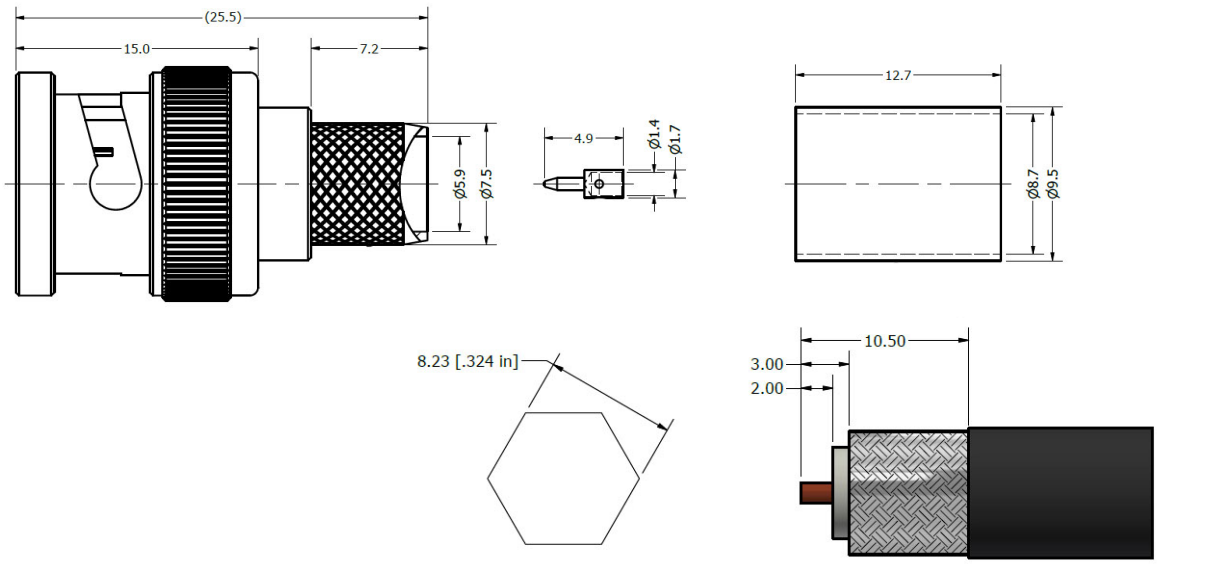
Environmental

Connector Type	BNC Male
Temp Range	-65 to +85°C
Mating Cycles	250



XBT-1068-NGAS - Drawing and Cable Preparation (Issue 1.3)

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XBT-1068-NGBD - Drawing and Cable Preparation (Issue 1.3)

Return Loss Graph

