

# 12GHz Micro BNC Coaxial Connectors

## Micro BNC Right Angled Cable Terminated Plug for 12G Applications

### Part Number XPT-D005-NGBH

#### Issue 1.0

#### General Description

Our range of 12GHz Precision Micro BNC coaxial connectors are optimised for 4K/Quad HD and Ultra HD Broadcast applications and have been developed under the CoaxVision™ Brand name, while meeting the JIJA CoaXPress specification. These high performance connectors allow you to achieve a 12GHz channel in one single connection.

The Micro BNC connectors are mateable with any standard Micro BNC connector, but optimum performance is achieved when PCB mounted styles are interfaced with these Cambridge Connectors 12GHz Micro BNC plugs.

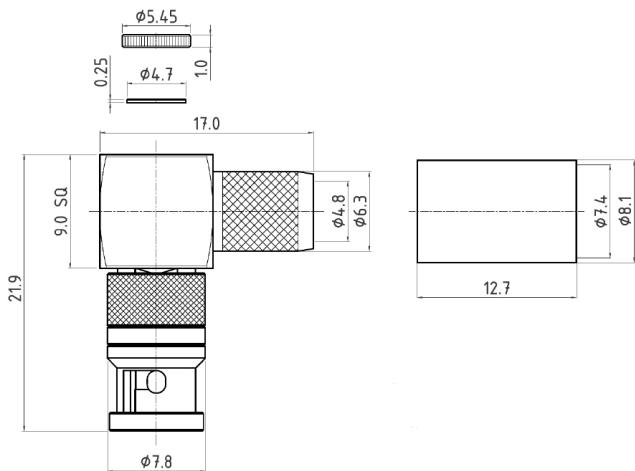
The XPT-D005-NGBH connector is a cable mounted right angle Micro BNC plug, designed for use with cable (such as Belden 1694A 4694R, RG6).

#### Electrical Specification

|                                  |   |
|----------------------------------|---|
| Impedance:                       | 75Ω                                     |
| Frequency Range:                 | 0-12GHz                                 |
| Working Voltage:                 | 250Vrms                                 |
| Dielectric Withstanding Voltage: | 1000Vrms                                |
| Reflection Factor (VSWR):        | 1.11(max)0 - 6GHz<br>1.28(max)6 - 12GHz |
| Contact Resistance:              |   |
| Centre Contact                   | $\leq 3\text{m}\Omega$                  |
| Outer Contact                    | $\leq 2.5\text{m}\Omega$                |
| Insulation Resistance:           | $\geq 5\text{G}\Omega$                  |
| Connector Type:                  | Male                                    |
| Materials                        |   |
| Centre Pin:                      | BeCu/ Ni / Au                           |
| Metal Parts:                     | Brass / Ni                              |
| Insulators:                      | PTFE                                    |
| Environmental                    |   |
| Temp Range:                      | -55 to +125°C                           |

#### Features

- Precision 12GHz 75Ω Micro BNC range
- Right Angle Cable Mounted connector
- 12G-SDI Compliant

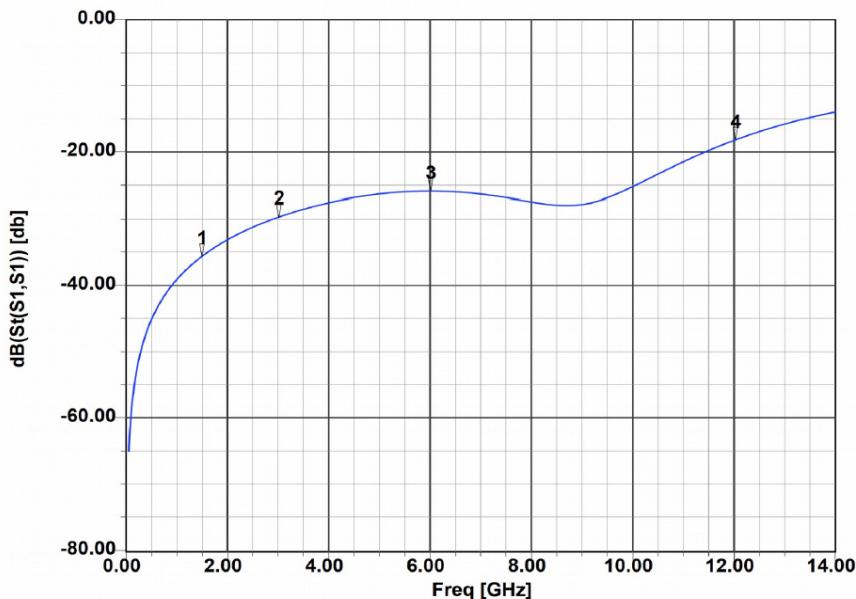


08 Dec 2020

Ansoft Corporation  
XY Plot 4  
HFSSDesign1

11:53:46

dB(S<sub>11</sub>(S1,S1)) [db]  
Setup1 : Sweep1



X1= 1.50GHz      X2= 3.01GHz      X3= 6.01GHz      X4= 12.03GHz  
Y1= -35.51      Y2= -29.60      Y3= -25.82      Y4= -18.12

Drawing Issue 1.0



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