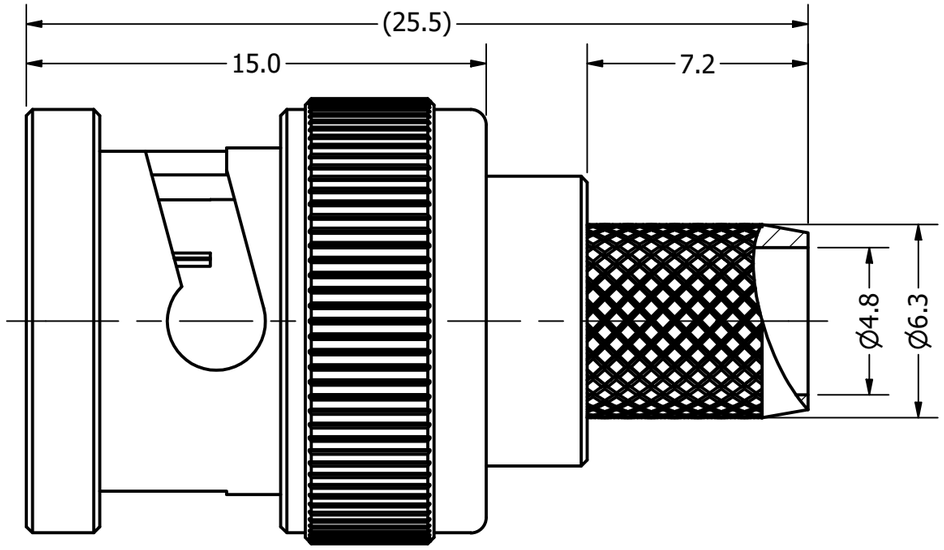
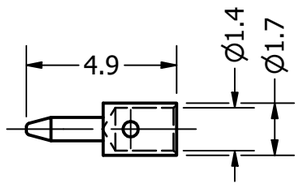
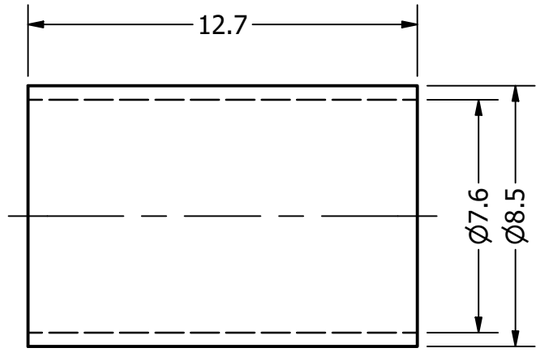
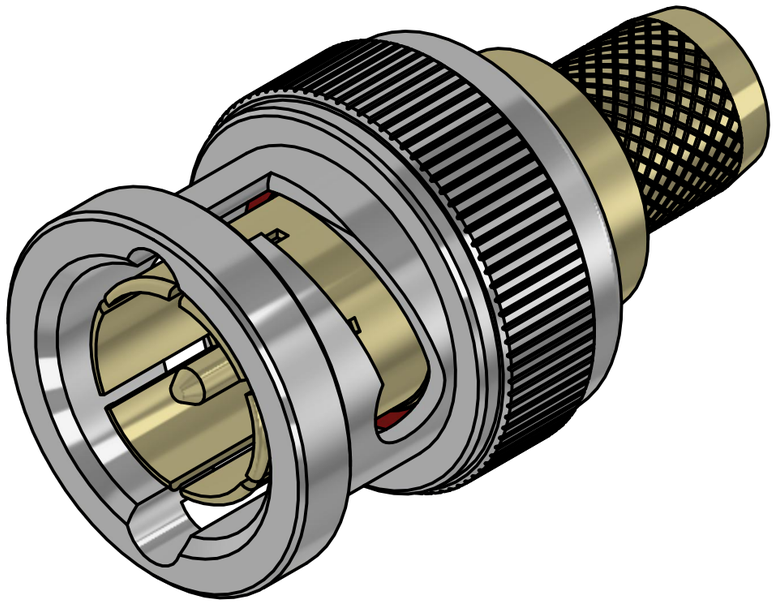
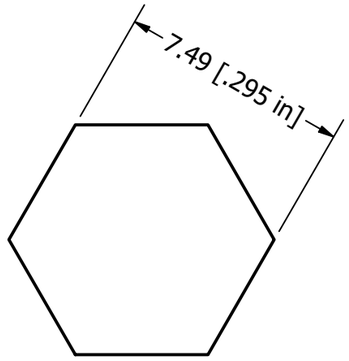


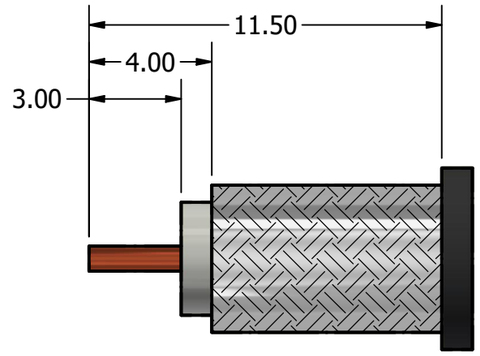








Recommended crimping dimension for ferrule



Recommended cable stripping dimensions

REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
1.0	Origin		05/09/2012	Peter Fayers
1.1	Assembly Inst Added		12/08/2015	Peter Fayers
1.2	Spec Added		26/10/2015	Peter Fayers
1.3	Format Updated	FB / INT	28 Jul 2026	Peter Millard

Design Right Protected	Material:	Finish:	Gen Tol ±0.10 Angular ±2°	DO NOT SCALE		
				Unit of Measure: millimeters (mm)		
Third Angle Projection	Designed by Peter Fayers	Checked by Peter Millard	Approved by	©2026	Date 18/12/2013	A3
RoHS Compliant	CAMBRIDGE ELECTRONIC INDUSTIRES	This document and all the data contained herein is and shall remain the property of Cambridge Electronic Industries Ltd and may not be used or copied for any purpose whatsoever without the written permission of Cambridge Electronic Industries Ltd.	Description: 75Ω BNC Plug 12GHz Cable Mount for Cable Group AS			
			Part No: XBT-1068-BGAS Cust		Issue 1.3	Sheet 1 / 2

Electrical:

Impedance	75Ω
Frequency range	DC ~ 12.0 GHz
Working voltage	500 V_{RMS}
Dielectric withstanding voltage	1500 V_{RMS}
Reflection factor (VSWR)	1.09 MAX DC ~ 6.0 GHz
	1.25 MAX DC ~ 12.0 GHz
Contact resistance	Centre contact ≤1.5 mΩ
	Outer contact ≤1.0 mΩ
Insulation resistance	≥5000 MΩ

Mechanical:

Coupling Nut Retention	100 lbs
Cable Retention	40 lbs MIN

Materials:

Centre contact	Phosphor Bronze / Au plated
Metal parts	Brass / Ni plated
Insulators	Polytetrafluoroethylene

Environmental:

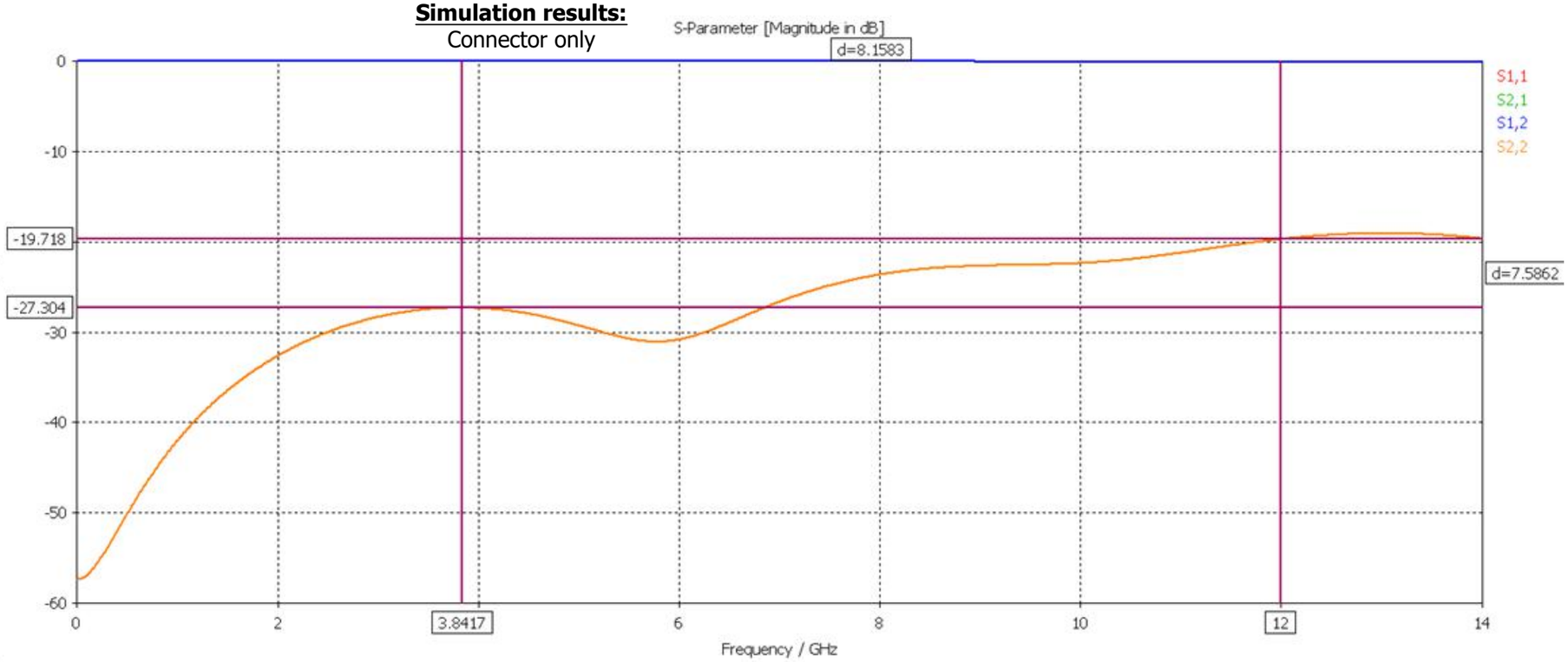
Temp ranges	-65 ~ +85°C
Mating cycles	250
Vibration	N/A
Salt spray	N/A

Processing:

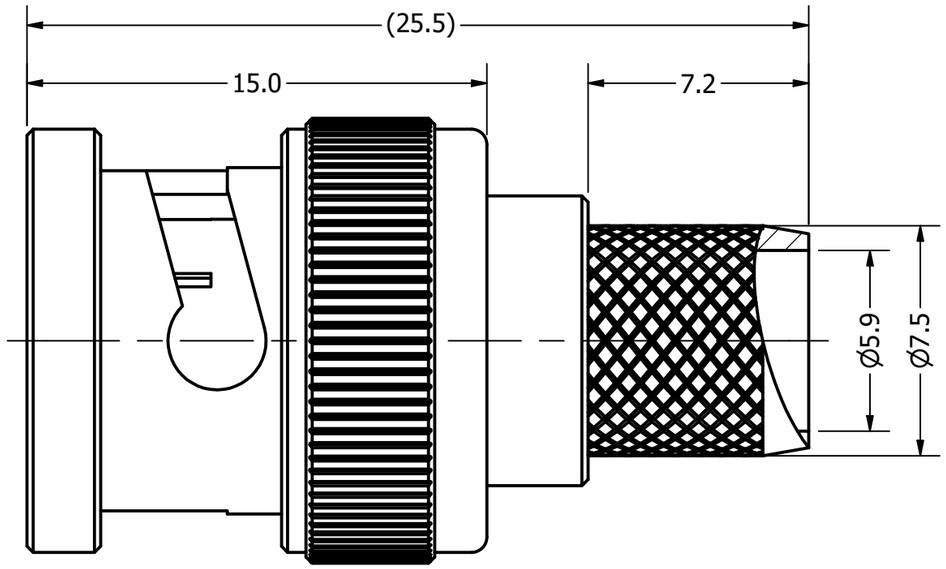
Centre contact	Solder
Ferrule	Crimp

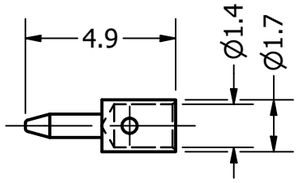
Cable Group AS:	Belden 1694A
	Belden 1694F
	Belden 4694R
	Canford SDV-F-R
	Canford SDV-XF
	RG6

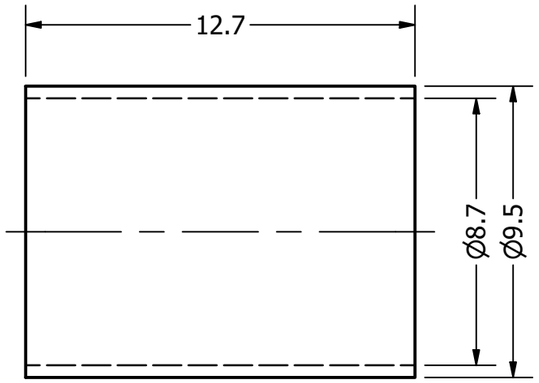
Simulation results:
Connector only

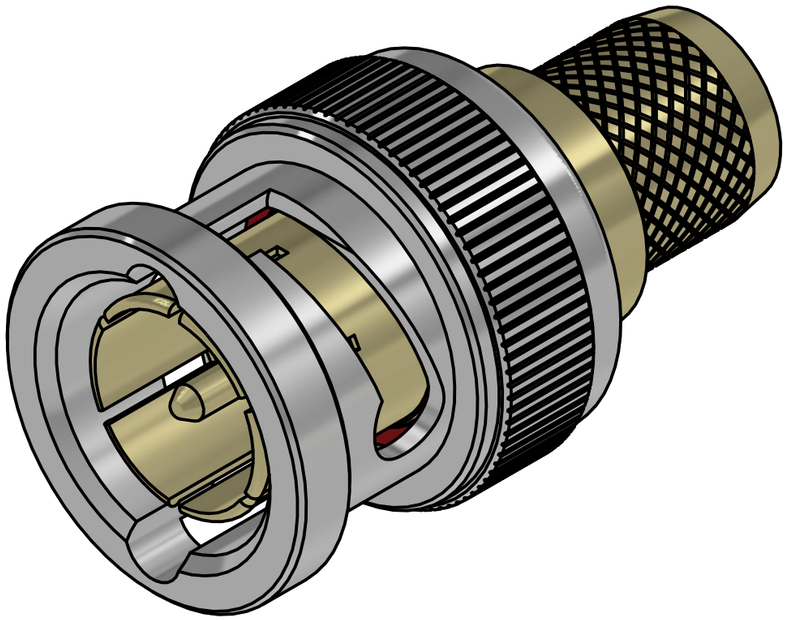


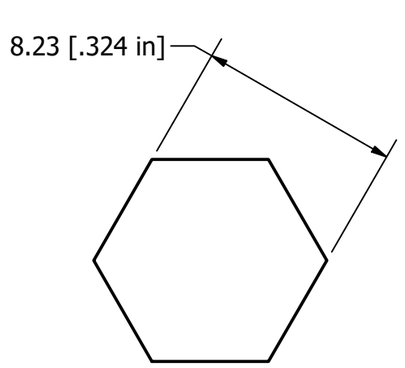
Design Right Protected	Material:	Finish:		Gen Tol ±0.10 Angular ±2°	DO NOT SCALE	
					Unit of Measure: millimeters (mm)	
Third Angle Projection	Designed by Peter Fayers	Checked by Peter Millard	Approved by	©2026	Date 18 Dec 2013	A3
RoHS Compliant	CAMBRIDGE ELECTRONIC INDUSTRIES	This document and all the data contained herein is and shall remain the property of Cambridge Electronic Industries Ltd and may not be used or copied for any purpose whatsoever without the written permission of Cambridge Electronic Industries Ltd.	Description: 75Ω BNC Plug 12GHz Cable Mount for Cable Group AS			
			Part No: XBT-1068-BGAS Cust	Issue 1.3	Sheet 2 / 2	



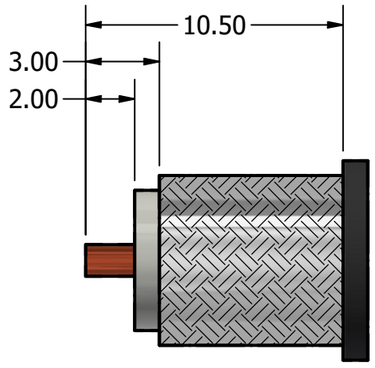








Recommended crimping dimension for ferrule



Recommended cable stripping dimensions

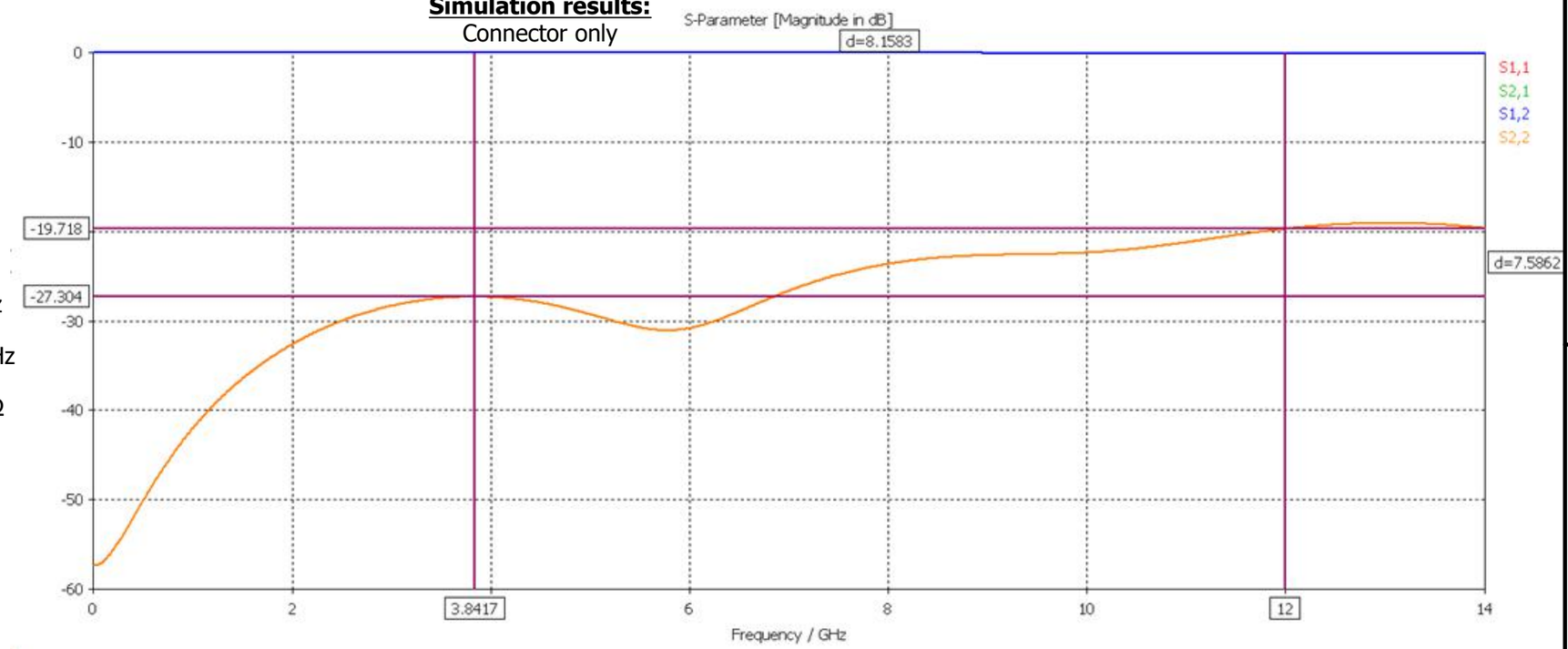
REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
1.0	Origin		25/04/2016	Peter Fayers
1.3	Updated Format	FB / INT	30 Jul 2026	Peter Millard

Design Right Protected	Material:	Finish:	Gen Tol ±0.10 Angular ±2°	DO NOT SCALE		
				Unit of Measure: millimeters (mm)		
Third Angle Projection	Designed by Peter Fayers	Checked by Peter Millard	Approved by	©2026	Date 25/04/2016	A3
RoHS Compliant	CAMBRIDGE ELECTRONIC INDUSTRIES	This document and all the data contained herein is and shall remain the property of Cambridge Electronic Industries Ltd and may not be used or copied for any purpose whatsoever without the written permission of Cambridge Electronic Industries Ltd.	Description: 75Ω BNC Plug 12GHz Cable Mount for Cable Group BD			
			Part No: XBT-1068-BGBD Cust		Issue 1.3	Sheet 1 / 2

Electrical:

Impedance	75Ω
Frequency range	DC ~ 12.0 GHz
Working voltage	500 VRMS
Dielectric withstanding voltage	1500 VRMS
Reflection factor (VSWR)	1.09 MAX DC ~ 6.0 GHz
	1.25 MAX DC ~ 12.0 GHz
Contact resistance	Centre contact ≤1.5 mΩ
	Outer contact ≤1.0 mΩ
Insulation resistance	≥5000 MΩ

Simulation results:
Connector only



Materials:

Centre contact	Phosphor Bronze / Au plated
Metal parts	Brass / Ni plated
Insulators	Polytetrafluoroethylene

Environmental:

Temp ranges	-65 ~ +85°C
Mating cycles	250
Vibration	N/A
Salt spray	N/A

Processing:

Centre contact	Solder
Ferrule	Crimp

Cable Group BD:	Belden 1794A

Design Right Protected	Material:	Finish:		Gen Tol ±0.10 Angular ±2°	DO NOT SCALE	
Third Angle Projection	Designed by Peter Fayers	Checked by Peter Millard	Approved by	©2026	Date 25 Apr 2016	A3
RoHS Compliant	CAMBRIDGE ELECTRONIC INDUSTIRES	This document and all the data contained herein is and shall remain the property of Cambridge Electronic Industries Ltd and may not be used or copied for any purpose whatsoever without the written permission of Cambridge Electronic Industries Ltd.	Description: 75Ω BNC Plug 12GHz Cable Mount for Cable Group BD			
			Part No: XBT-1068-BGBD Cust	Issue 1.3	Sheet 2 / 2	