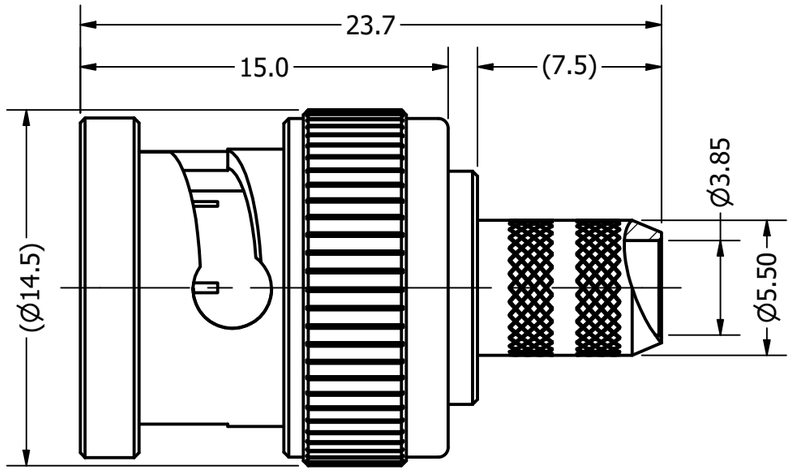
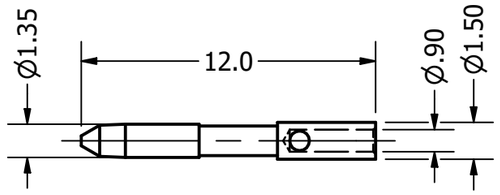
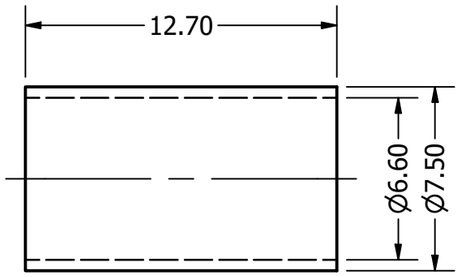
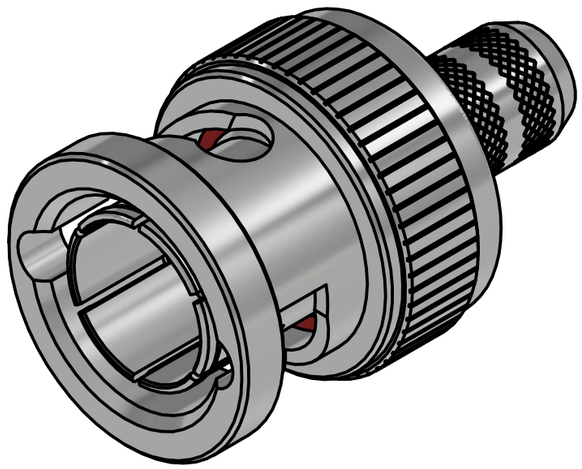
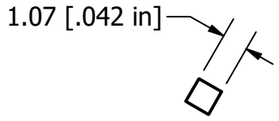


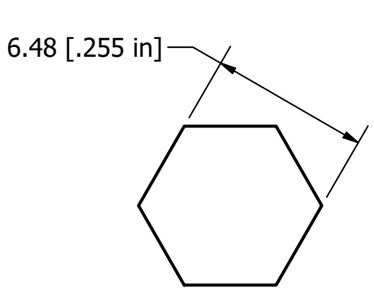




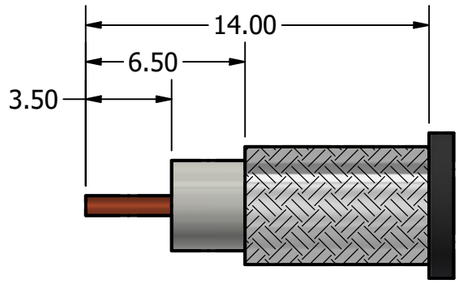




Recommended crimping dimension for contact



Recommended crimping dimension for ferrule



Recommended cable stripping dimensions

PARTS LIST			
ITEM	DESCRIPTION	MATERIAL	FINISH
1	Shell	Brass	Finish 1
2	Body	Brass	Finish 1
3	Insulator	PTFE	None
4	Centre Contact	Brass	Finish 1/2
5	Ferrule	Brass	Finish 1

REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
1.0	Origin	-	07/07/2015	Peter Fayers
1.1	Updated Format	FB / INT	30 Jul 2026	Peter Millard

Design Right Protected

Material:

Finish:

x.x ±0.20
x.xx ±0.10
x.xxx ±0.05
Angular ±1°

DO NOT SCALE

Unit of Measure: millimeters (mm)

Third Angle Projection

Designed by Peter Millard

Checked by Peter Millard

Approved by

©2026

Date 07 Jul 2015

A3

RoHS Compliant

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Description:
75Ω BNC Plug 12GHz Cable Mount for Cable Group AB

Part No: XBT-1069-NGAB Cust

Issue 1.1

Sheet 1 / 2

Source:E:\Cambridge Connectors\Live Products\Engineering Data\(B) BNC\XBT-1069-NGAB

Electrical:

Impedance	75Ω
Frequency range	DC ~ 12.0 GHz
Working voltage	500 VRMS
Dielectric withstanding voltage	1500 VRMS
Contact resistance	Centre contact ≤1.5 mΩ
Insulation resistance	≥5 GΩ

Environmental:

Temp ranges	-65 ~ +165°C
Vibration	N/A
Salt spray	N/A
Thermal shock	N/A
Mechanical	N/A

Finish:

1. Ni plating	50µ" MIN (Under Plating)
2. Au plating	1 ~ 2µ" MAX (Over Finish 1)

Processing:

Centre contact	Solder recommended & crimp capable
Ferrule	Crimp

Cable Group AB:

Belden 1505A

Belden 4505R

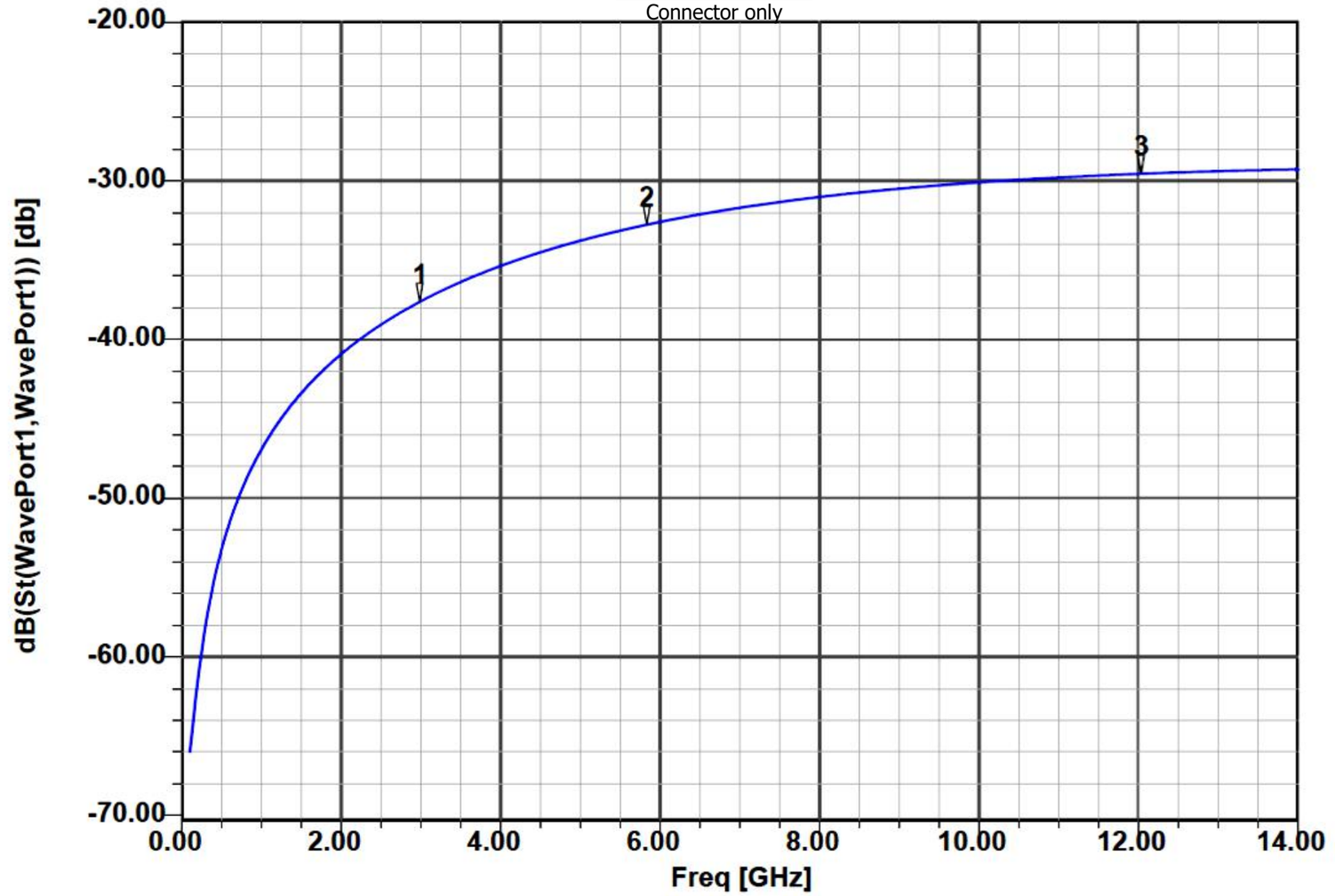
RG140/U

RG59

RG59B/U

URM 90

Simulation results:
Connector only

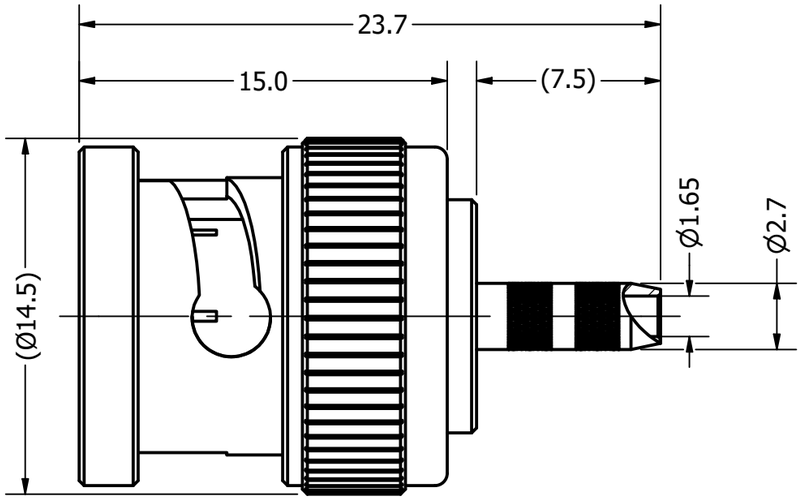


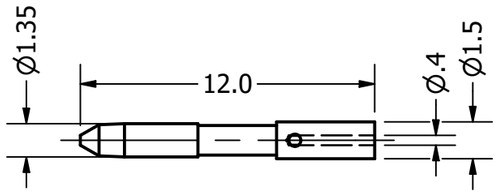
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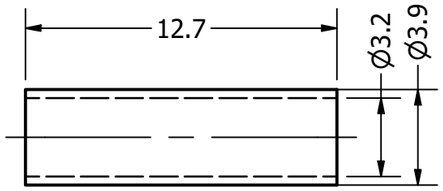
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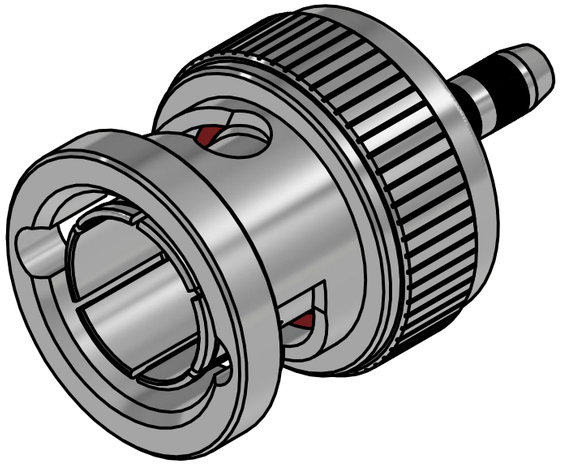
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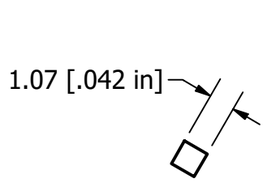
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Third Angle Projection	Designed by Peter Millard	Checked by Peter Millard	Approved by	©2026	Date 07 Jul 2015	A3
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			Part No: XBT-1069-NGAB Cust		Issue 1.1	Sheet 2 / 2



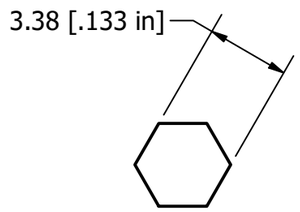




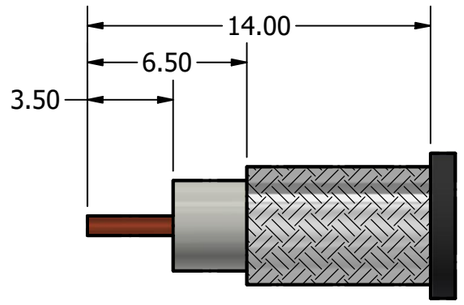




Recommended crimping dimension for contact



Recommended crimping dimension for ferrule



Recommended cable stripping dimensions

PARTS LIST			
ITEM	DESCRIPTION	MATERIAL	FINISH
1	Shell	Brass	Finish 1
2	Body	Brass	Finish 1
3	Insulator	PTFE	None
4	Centre Contact	Brass	Finish 1/2
5	Ferrule	Brass	Finish 1

REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
1.0	Origin	-	15 Apr 2026	Peter Millard

Design Right Protected

Third Angle Projection

RoHS Compliant

Material:

Finish:

X ±0.2
.XX ±0.1
.XXX ±0.05
Angular ±1°

DO NOT SCALE

Unit of Measure: millimeters (mm)

Designed by Peter Millard

Checked by Peter Millard

Approved by

©2026

Date 15/04/2026

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Description: 75Ω BNC Plug 12GHz Cable Mount for Cable Group AF

Part No: XBT-1069-NGAF Cust

Issue 1.0

Sheet 1 / 2

Source:E:\Cambridge Connectors\Live Products\Engineering Data\(B) BNC\XBT-1069-NGAF

Electrical:

Impedance	75Ω
Frequency range	DC ~ 12.0 GHz
Working voltage	500 V_{RMS}
Dielectric withstanding voltage	1500 V_{RMS}
Contact resistance	Centre contact ≤1.5 mΩ
Insulation resistance	≥5 GΩ

Environmental:

Temp ranges	-65 ~ +165°C
Vibration	N/A
Salt spray	N/A
Thermal shock	N/A
Mechanical	N/A

Finish:

1.	Ni plating	50µ" MIN (Under Plating)
2.	Au plating	1 ~ 2µ" MAX (Over Finish 1)

Processing:

Centre contact	Solder recommended & crimp capable
Ferrule	Crimp

Cable Group AF:

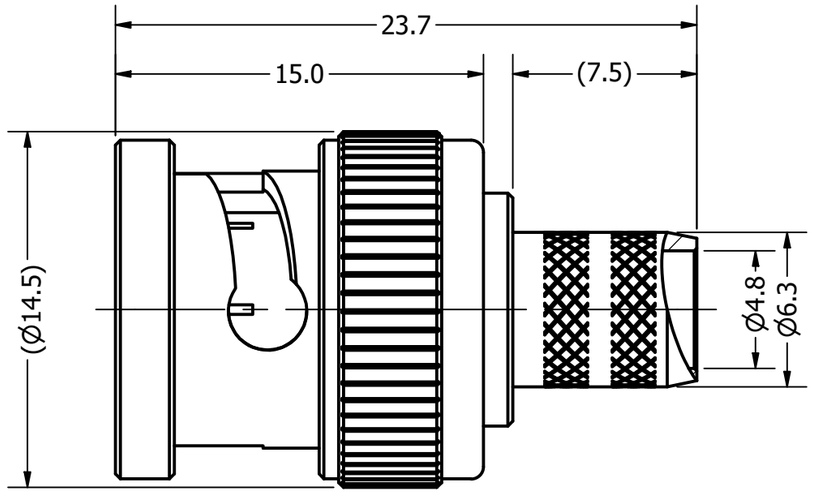
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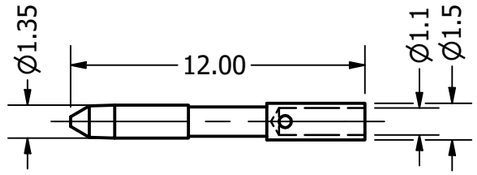
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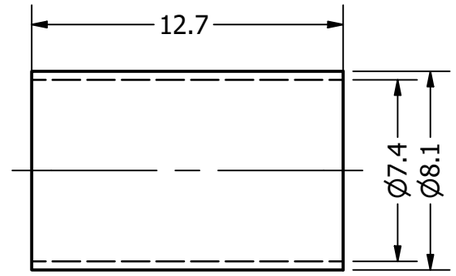
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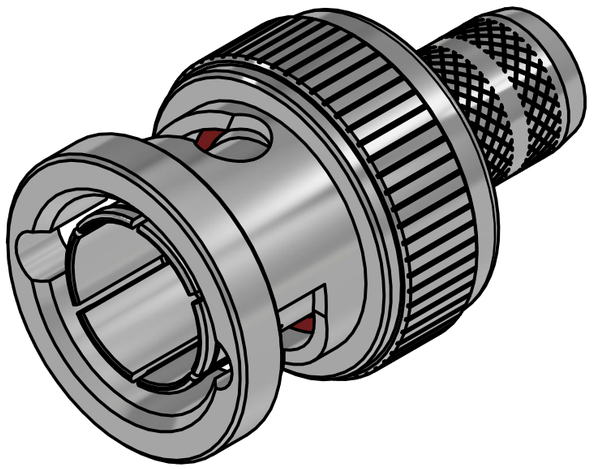
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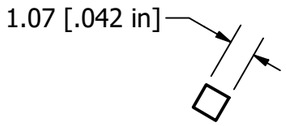
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Third Angle Projection	Designed by Peter Millard	Checked by Peter Millard	Approved by	©2026	Date 15/04/2026	A3
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			Part No: XBT-1069-NGAF Cust		Issue 1.0	Sheet 2 / 2



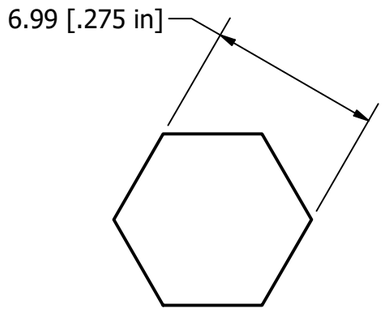




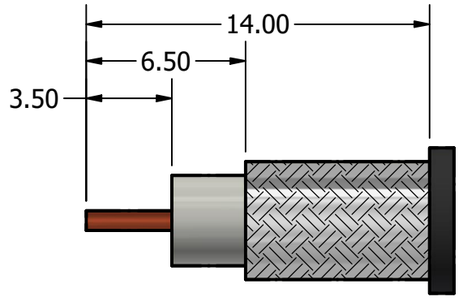




Recommended crimping dimension for contact



Recommended crimping dimension for ferrule



Recommended cable stripping dimensions

PARTS LIST			
ITEM	DESCRIPTION	MATERIAL	FINISH
1	Shell	Brass	Finish 1
2	Body	Brass	Finish 1
3	Insulator	PTFE	None
4	Centre Contact	Brass	Finish 1/2
5	Ferrule	Brass	Finish 1

REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
1.0	Origin		13/10/2016	P. Fayers
1.1	Updated Format	FB / INT	29/07/2026	Martin Smith

Design Right Protected

Material:

Finish:

x.x ±0.20
x.xx ±0.10
x.xxx ±0.05
Angular ±1°

DO NOT SCALE

Unit of Measure: millimeters (mm)

Third Angle Projection

Designed by P. Fayers

Checked by Peter Millard

Approved by

©2026

Date 13 Oct 2016

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Description: 75Ω BNC Plug 12GHz Cable Mount for Cable Group AS

Part No: XBT-1069-NGAS Cust

Issue 1.1

Sheet 1 / 2

Source:E:\Cambridge Connectors\Live Products\Engineering Data\(B) BNC\XBT-1069-NGAS

Electrical:

Impedance	75Ω
Frequency range	DC ~ 12.0 GHz
Working voltage	500 VRMS
Dielectric withstanding voltage	1500 VRMS
Contact resistance	Centre contact ≤1.5 mΩ
Insulation resistance	≥5 GΩ

Environmental:

Temp ranges	-65 ~ +165°C
Vibration	N/A
Salt spray	N/A
Thermal shock	N/A
Mechanical	N/A

Finish:

1.	Ni plating	50µ" MIN (Under Plating)
2.	Au plating	1 ~ 2µ" MAX (Over Finish 1)

Processing:

Centre contact	Solder recommended & crimp capable
Ferrule	Crimp

Cable Group AS:

Belden 1694A

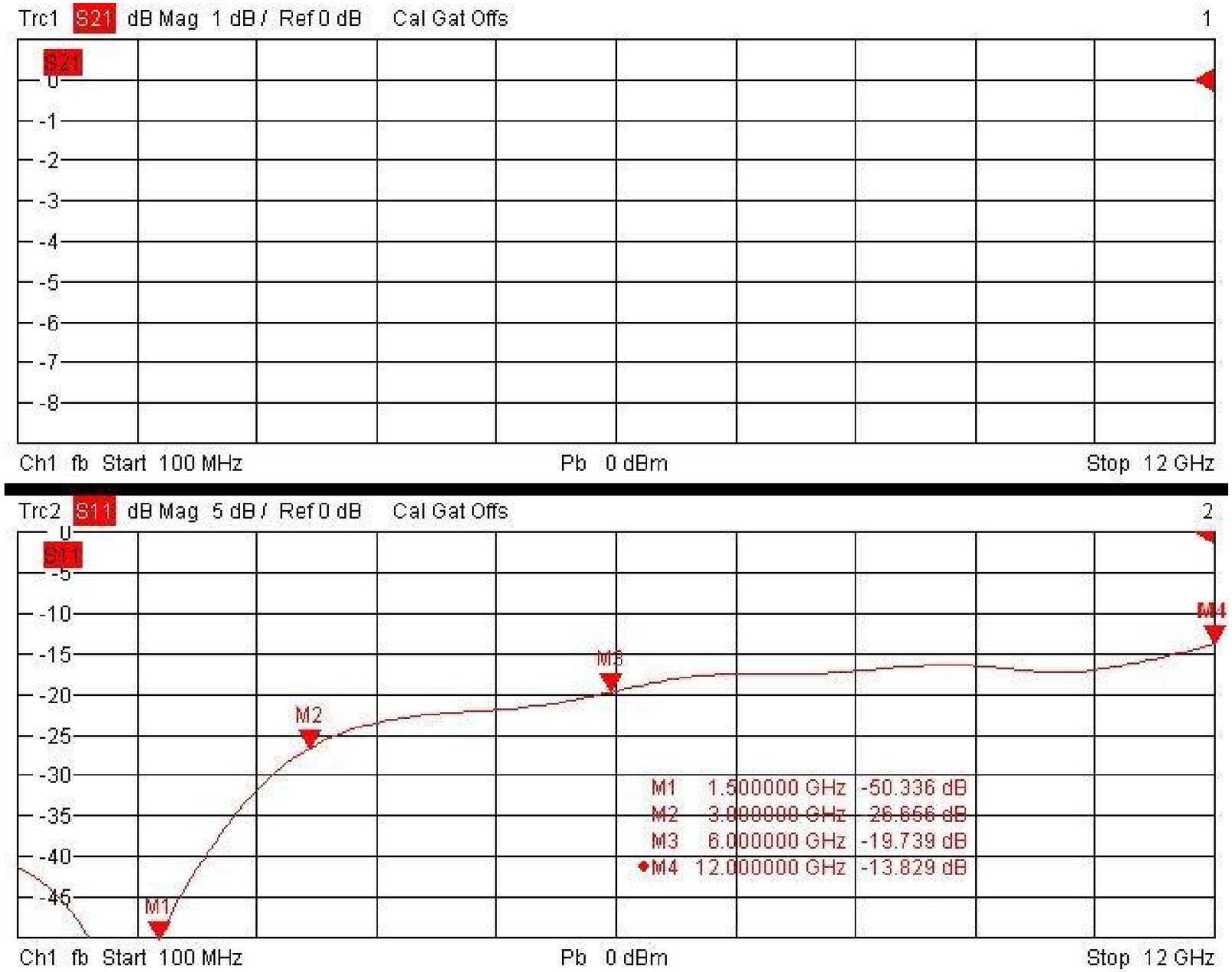
Belden 1694F

Belden 4694R

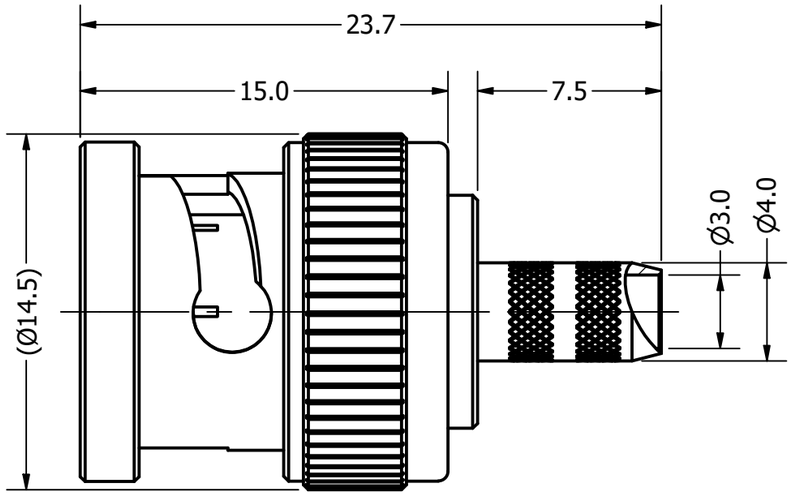
Canford SDV-F-R

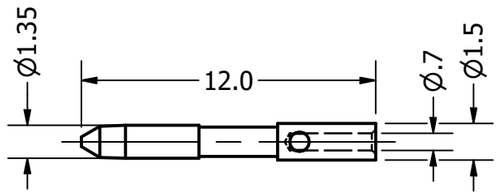
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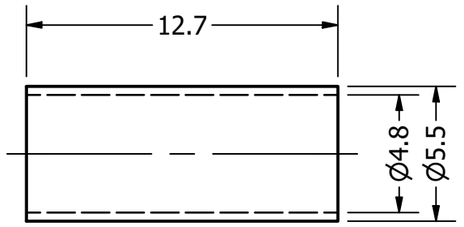
RG6

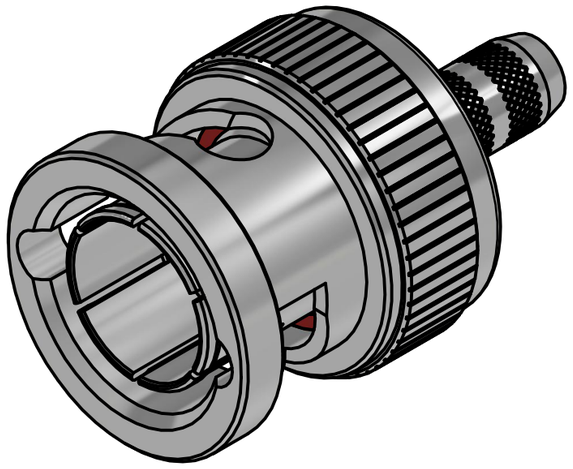


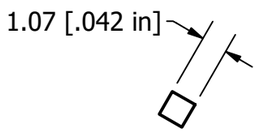
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Third Angle Projection	Designed by P. Fayers	Checked by Peter Millard	Approved by	©2026	Date 13 Oct 2016	A3
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			Part No: XBT-1069-NGAS Cust	Issue 1.1	Sheet 2 / 2	



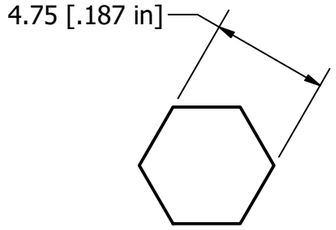




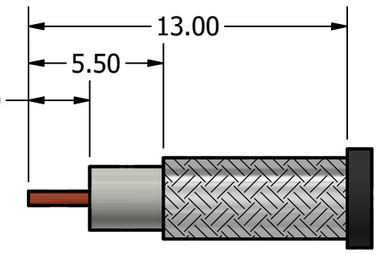




Recommended crimping dimension for contact



Recommended crimping dimension for ferrule



Recommended cable stripping dimensions

PARTS LIST			
ITEM	DESCRIPTION	MATERIAL	FINISH
1	Shell	Brass	Finish 1
2	Body	Brass	Finish 1
3	Insulator	PTFE	None
4	Centre Contact	Brass	Finish 1/2
5	Ferrule	Brass	Finish 1

REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
1.0	Origin	-	05 Feb 2015	Peter Fayers
1.1	RL Graph Added	-	21 Nov 2015	Peter Fayers
1.2	Updated Format	FB / INT	30 Jul 2026	Peter Millard

Design Right Protected

Material:

Finish:

x.x ±0.20
x.xx ±0.10
x.xxx ±0.05
Angular ±1°

DO NOT SCALE

Unit of Measure: millimeters (mm)

Third Angle Projection

Designed by Peter Fayers

Checked by Peter Millard

Approved by

©2026

Date 05 Feb 2015

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Description:
75Ω BNC Plug 12GHz Cable Mount for Cable Group BA

Part No: XBT-1069-NGBA Cust

Issue 1.2

Sheet 1 / 2

Source:E:\Cambridge Connectors\Live Products\Engineering Data\(B) BNC\XBT-1069-NGBA (HB101P0N01-AT-R)\BDY.ipt

Electrical:

Impedance	75Ω
Frequency range	DC ~ 12.0 GHz
Working voltage	500 V_{RMS}
Dielectric withstanding voltage	1500 V_{RMS}
Contact resistance	Centre contact ≤1.5 mΩ
Insulation resistance	≥5 GΩ

Environmental:

Temp ranges	-65 ~ +165°C
Vibration	N/A
Salt spray	N/A
Thermal shock	N/A
Mechanical	N/A

Finish:

1.	Ni plating	50µ" MIN (Under Plating)
2.	Au plating	1 ~ 2µ" MAX (Over Finish 1)

Processing:

Centre contact	Solder recommended & crimp capable
Ferrule	Crimp

Cable Group BA:

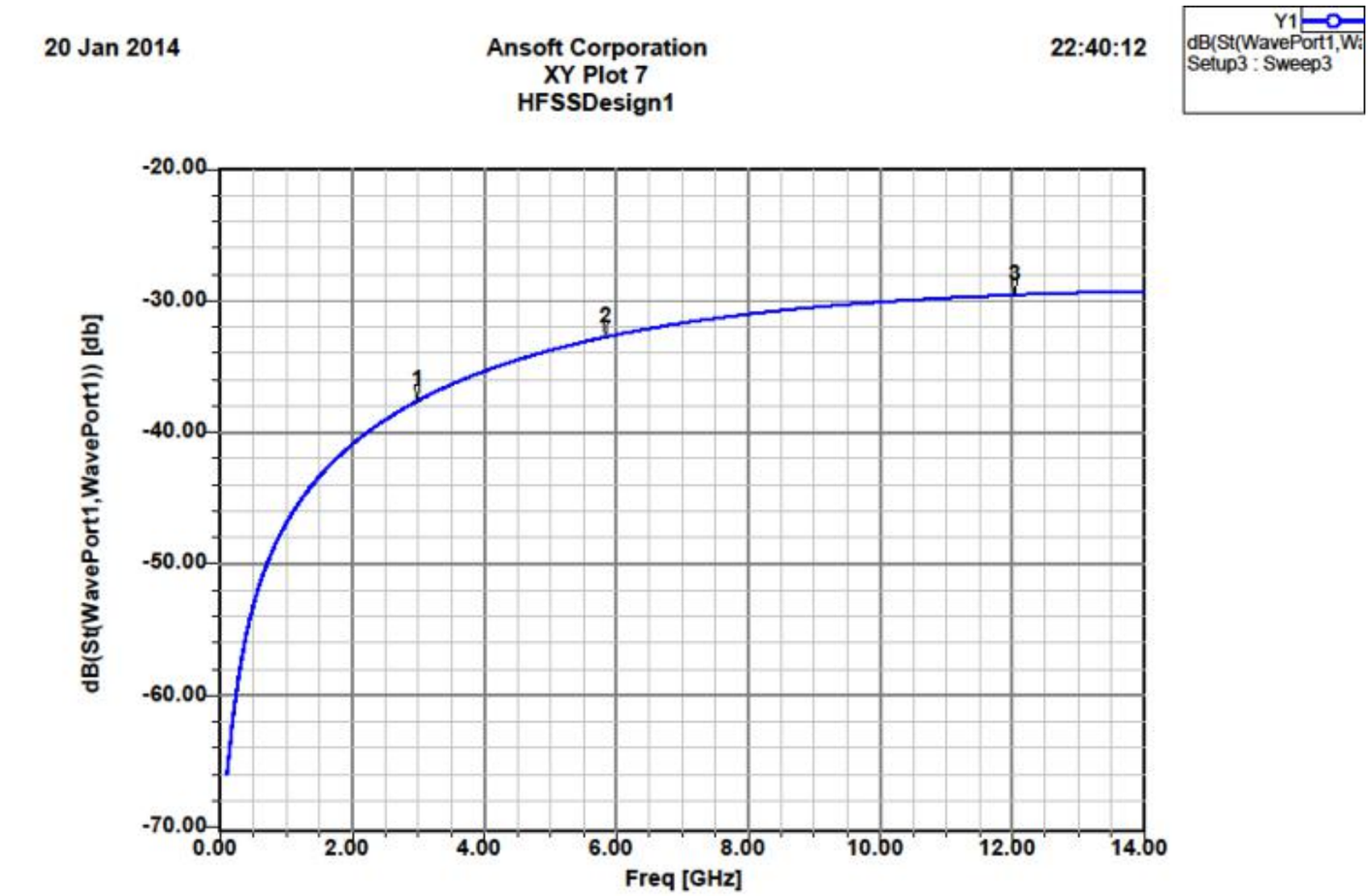
Belden 1855A

Belden 4855R

Mini RG59

Simulation results:

Connector only

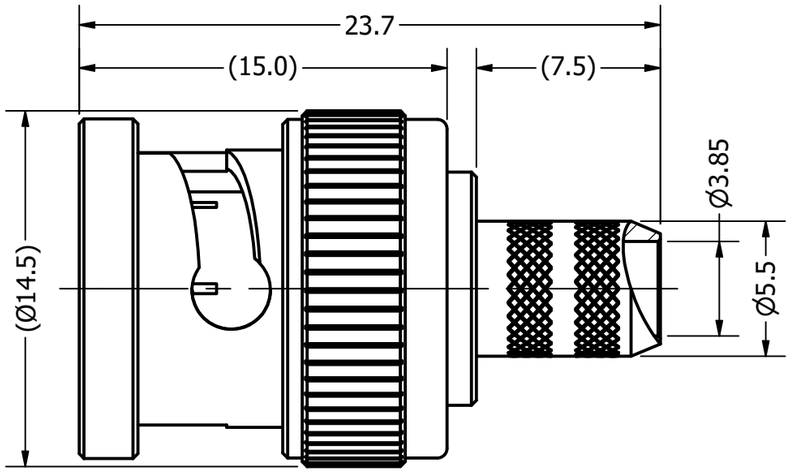


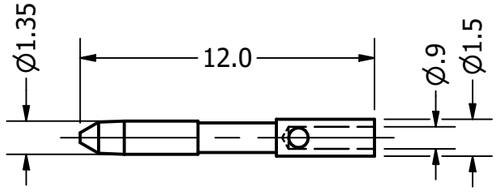
X1= 2.98GHz Y1= -37.53

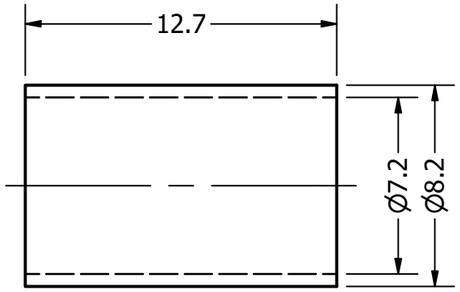
X2= 5.83GHz Y2= -32.70

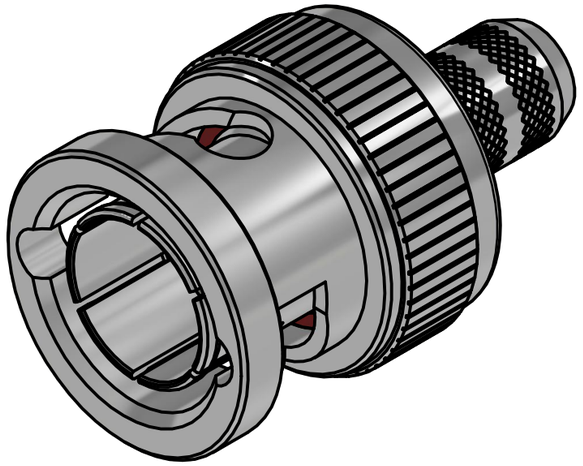
X3= 12.04GHz Y3= -29.51

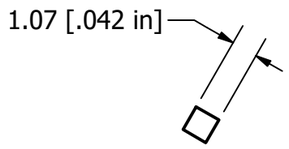
Design Right Protected	Material:	Finish:	x.x ±0.20 x.xx ±0.10 x.xxx ±0.05 Angular ±1°	DO NOT SCALE Unit of Measure: millimeters (mm)		
Third Angle Projection	Designed by Peter Fayers	Checked by Peter Millard	Approved by	©2026	Date 05 Feb 2015	A3
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			Part No: XBT-1069-NGBA Cust	Issue 1.2	Sheet 2 / 2	



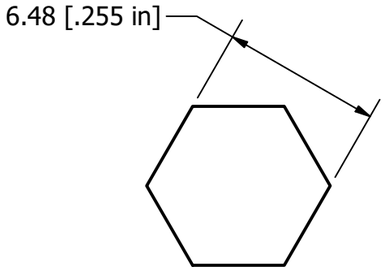




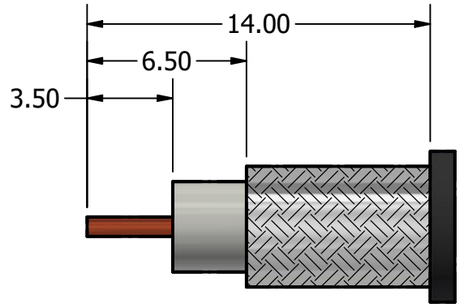




Recommended crimping dimension for contact



Recommended crimping dimension for ferrule



Recommended cable stripping dimensions

REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
1.0	Origin	-	07 Jul 2015	Peter Fayers
1.1	Updated Format	FB / INT	20 Aug 2026	Martin Smith

PARTS LIST			
ITEM	DESCRIPTION	MATERIAL	FINISH
1	Shell	Brass	Finish 1
2	Body	Brass	Finish 1
3	Insulator	PTFE	None
4	Centre Contact	Brass	Finish 1/2
5	Ferrule	Brass	Finish 1

Design Right Protected

Material:

Finish:

.X ±.20
.XX ±.10
.XXX ±.05
Angular ±1°

DO NOT SCALE

Unit of Measure: millimeters (mm)

Third Angle Projection

Designed by Peter Fayers

Checked by Peter Millard

Approved by

©2026

Date 07 Jul 2015

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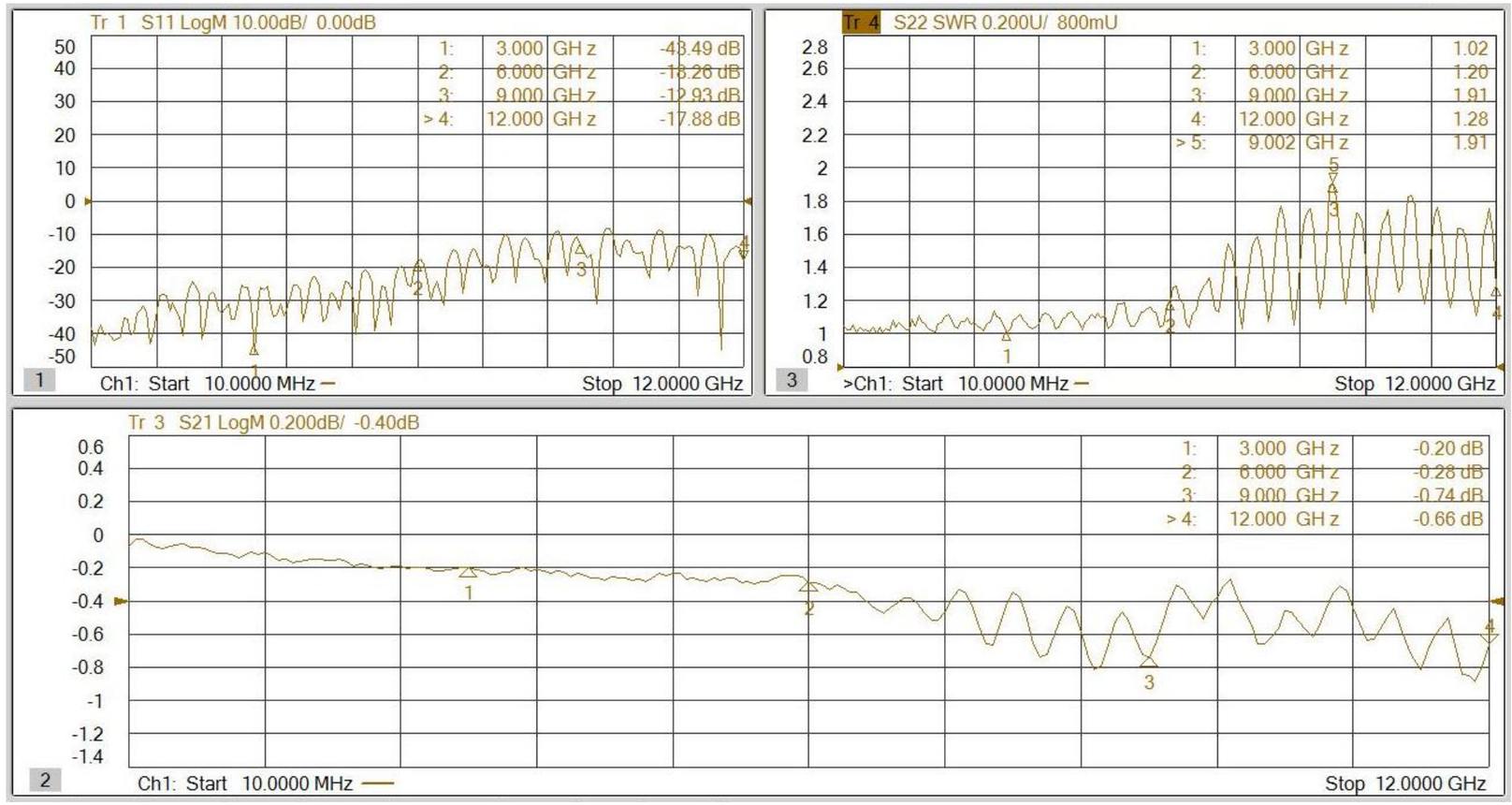
Description:
75Ω BNC Plug 12GHz Cable Mount for Cable Group BC

Part No: XBT-1069-NGBC Cust

Issue 1.1

Sheet 1 / 2

Including cable assembly



Electrical:

Impedance	75Ω
Frequency range	DC ~ 12.0 GHz
Working Voltage	500 Vrms
Dielectric withstanding voltage	1500 Vrms
Contact Resistance	Centre Contact ≦ 1.5 mOhm
Insulation Resistance	≧ 5 GOhm

Mechanical:

Engagement Force	0.6~2.5 lbs
Coupling Nut Retention Force	≧ 101.2 lbs

Environmental:

Temp Ranges	-65 to +165°C
Corrosion	MIL-STD-202, Method 101, Cond. B
Vibration	MIL-STD-202, Method 204, Cond. B
Thermal Shock	MIL-STD-202, Method 107, Cond. B
Mechanical Shock	MIL-STD-202, Method 213, Cond. G

Finish:

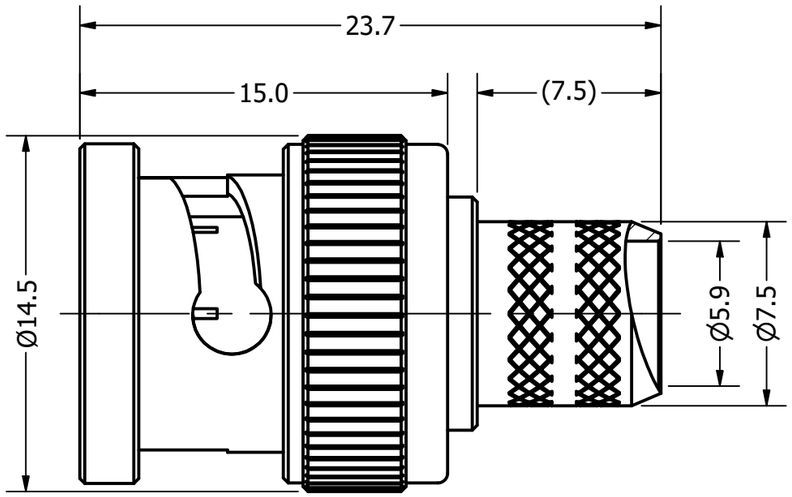
1. Ni plating	50µ" MIN (Under Plating)
2. Au plating	1 ~ 2µ" MAX (Over Finish 1)

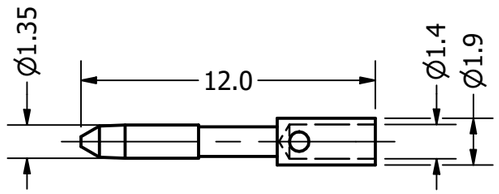
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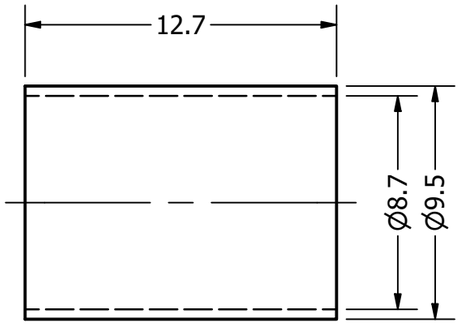
Centre contact	Solder recommended & crimp capable
Ferrule	Crimp

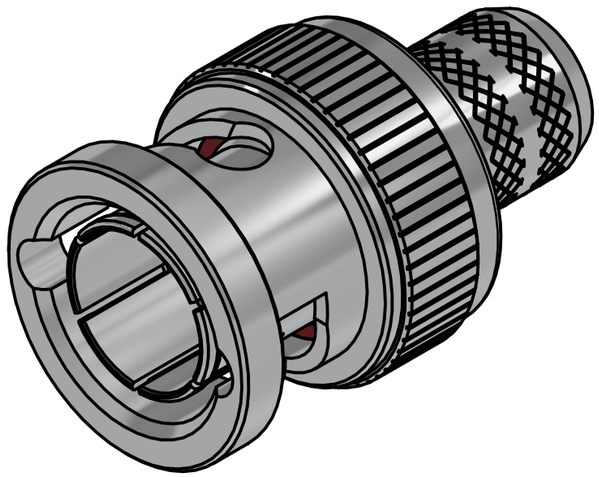
Cable Group BC: Belden 1505F

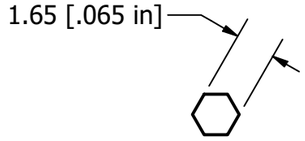
Design Right Protected	Material:	Finish:	.X ±.20 .XX ±.10 .XXX ±.05 Angular ±1°	DO NOT SCALE	
				Unit of Measure: millimeters (mm)	
Third Angle Projection	Designed by Peter Fayers	Checked by Peter Millard	Approved by	©2026	Date 07 Jul 2015	A3
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			Part No: XBT-1069-NGBC Cust	Issue 1.1	Sheet 2 / 2



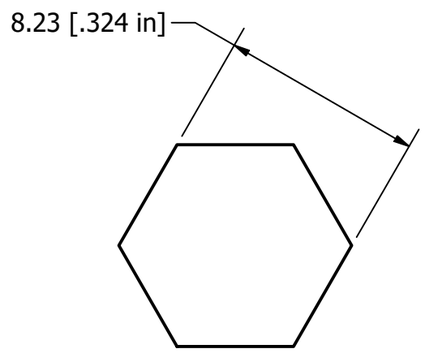




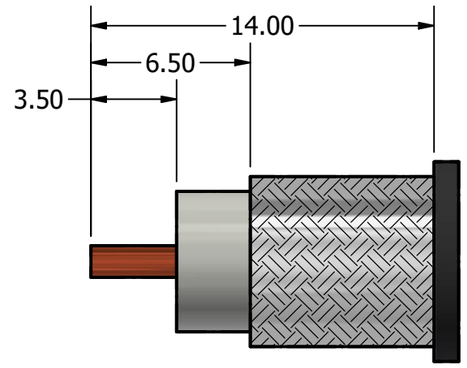




Recommended crimping dimension for contact



Recommended crimping dimension for ferrule



Recommended cable stripping dimensions

PARTS LIST			
ITEM	DESCRIPTION	MATERIAL	FINISH
1	Shell	Brass	Finish 1
2	Body	Brass	Finish 1/2
3	Insulator	PTFE	None
4	Centre Contact	Brass	Finish 1
5	Ferrule	Brass	Finish 1

REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
1.0	Origin	-	25 Jun 2026	Peter Millard

Design Right Protected

Material:

Finish:

.X ±.20
.XX ±.10
.XXX ±.05
Angular ±1°

DO NOT SCALE

Unit of Measure: millimeters (mm)

Third Angle Projection

Designed by Peter Millard

Checked by Peter Millard

Approved by

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Date 25 Jun 2026

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Description:
75Ω BNC Plug 12GHz Cable Mount for Cable Group BD

Part No: XBT-1069-NGBD Cust

Issue 1.0

Sheet 1 / 2

Source:E:\Cambridge Connectors\Live Products\Engineering Data\(B) BNC\XBT-1069-NGBD (HB101P0N01-BC-R)\BDY.ipt

Electrical:

Impedance	75Ω
Frequency range	DC ~ 12.0 GHz
Working voltage	500 V_{RMS}
Dielectric withstanding voltage	1500 V_{RMS}
Contact resistance	Centre contact ≤1.5 mΩ
Insulation resistance	≥5 GΩ

Environmental:

Temp ranges	-65 ~ +165°C
Vibration	N/A
Salt spray	N/A
Thermal shock	N/A
Mechanical	N/A

Finish:

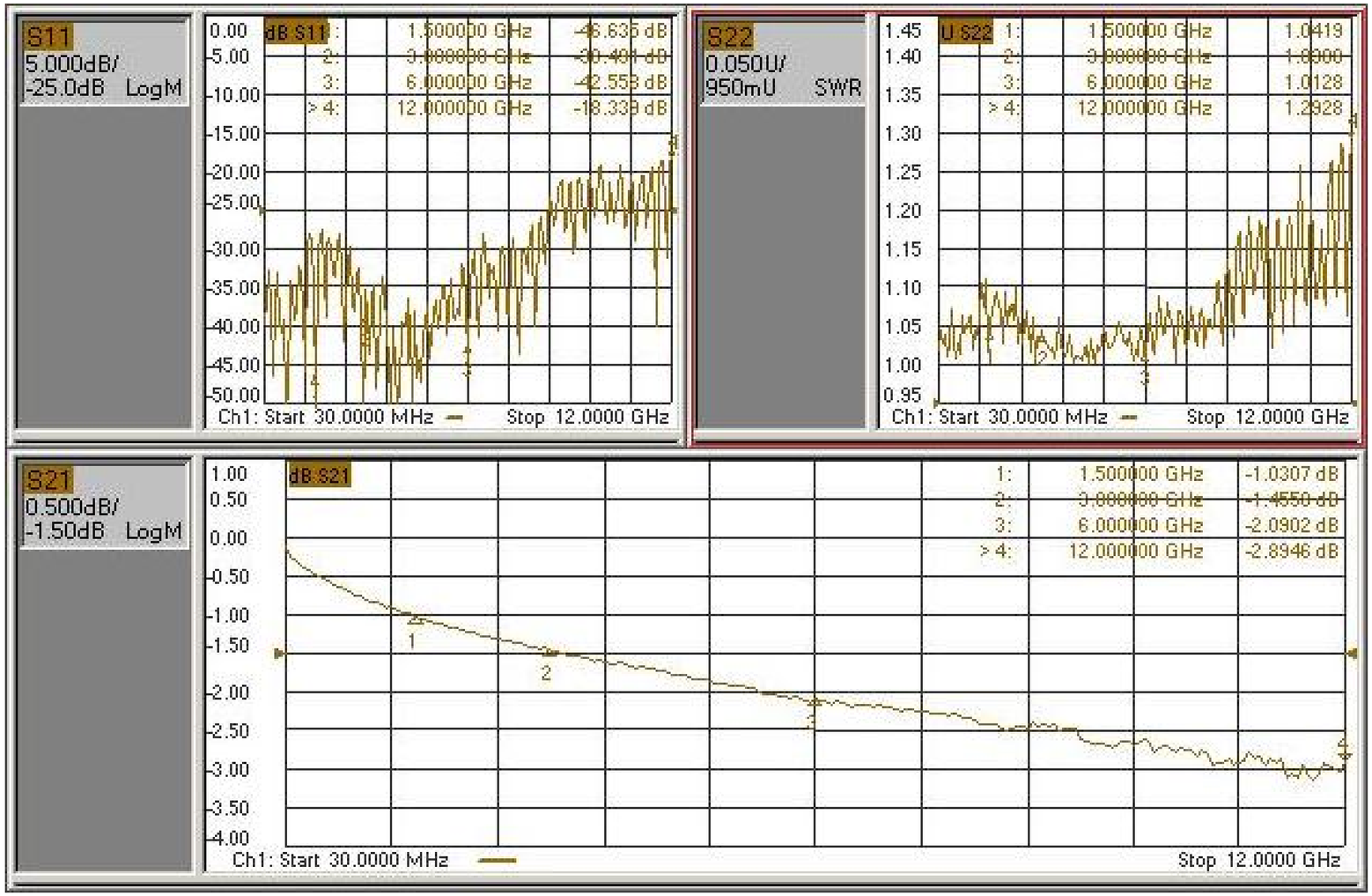
1.	Ni plating	50µ" MIN (Under Plating)
2.	Au plating	1 ~ 2µ" MAX (Over Finish 1)

Processing:

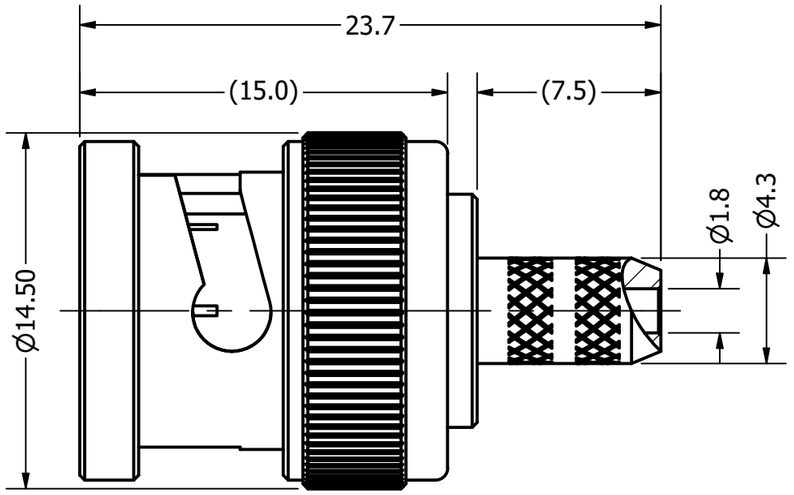
Centre contact	Solder recommended & crimp capable
Ferrule	Crimp

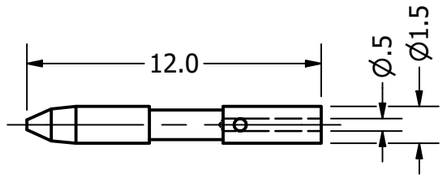
Cable Group BD: Belden 1794A

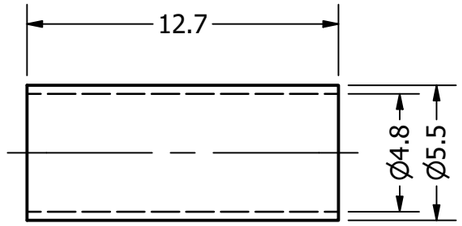
Including cable assembly

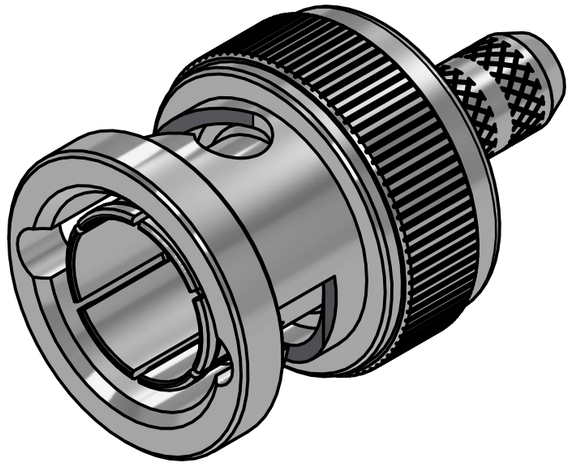


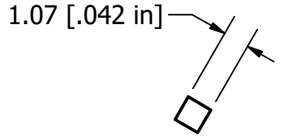
Design Right Protected	Material:	Finish:	.X ±.20 .XX ±.10 .XXX ±.05 Angular ±1°	DO NOT SCALE		
Third Angle Projection	Designed by Peter Millard	Checked by Peter Millard	Approved by	©2026	Date 25 Jun 2026	A3
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			Part No: XBT-1069-NGBD Cust	Issue 1.0	Sheet 2 / 2	



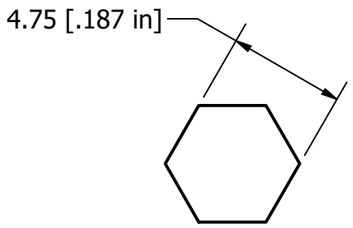




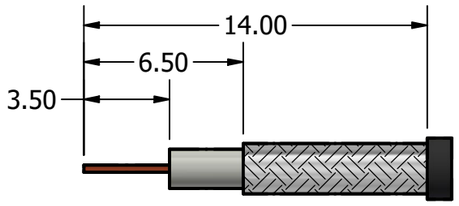




Recommended crimping dimension for contact



Recommended crimping dimension for ferrule



Recommended cable stripping dimensions

REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
1.0	Origin		19/2/2016	P. Fayers
1.1	Removed crimp info for centre pin	FB / INT	28/4/2016	P. Fayers
1.2	Pin hole chg to 0.5	FB / INT	1/4/2022	P. Fayers
1.3	Updated Format	FB / INT	19/08/2026	Martin Smith

PARTS LIST			
ITEM	DESCRIPTION	MATERIAL	FINISH
1	Shell	Brass	Finish 1
2	Body	Brass	Finish 1
3	Insulator	PTFE	None
4	Centre Contact	Brass	Finish1/2
5	Ferrule	Brass	Finish 1

Design Right Protected

Material:

Finish:

X.X ±0.20
X.XX ±0.10
X.XXX ±0.05
Angular ±1°

DO NOT SCALE

Unit of Measure: millimeters (mm)

Third Angle Projection

Designed by Peter Fayers

Checked by Peter Millard

Approved by

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Date 19 Feb 2016

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Description:
75Ω BNC Plug 12GHz Cable Mount for Cable Group DE

Part No: XBT-1069-NGDE Cust

Issue 1.3

Sheet 1 / 2

Source:E:\Cambridge Connectors\Live Products\Engineering Data\(B) BNC\XBT-1069-NGDE

Electrical:

Impedance	75Ω
Frequency range	DC ~ 12.0 GHz
Working voltage	500 V_{RMS}
Dielectric withstanding voltage	1500 V_{RMS}
Contact resistance	Centre contact ≤1.5 mΩ
Insulation resistance	≥5 GΩ

Environmental:

Temp ranges	-65 ~ +165°C
Vibration	N/A
Salt spray	N/A
Thermal shock	N/A
Mechanical	N/A

Finish:

1.	Ni plating	50µ" MIN (Under Plating)
2.	Au plating	1 ~ 2µ" MAX (Over Finish 1)

Processing:

Centre contact	Solder recommended & crimp capable
Ferrule	Crimp

Cable Group DE: RG179

CFKOAX1 HF75-0.3/1.6

Design Right Protected	Material:	Finish:		X.X ±0.20 X.XX ±0.10 X.XXX ±0.05 Angular ±1°	DO NOT SCALE Unit of Measure: millimeters (mm)	
Third Angle Projection	Designed by Peter Fayers	Checked by Peter Millard	Approved by	©2026	Date 19/02/2016	A3
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			Part No: XBT-1069-NGDE Cust		Issue 1.3	Sheet 2 / 2