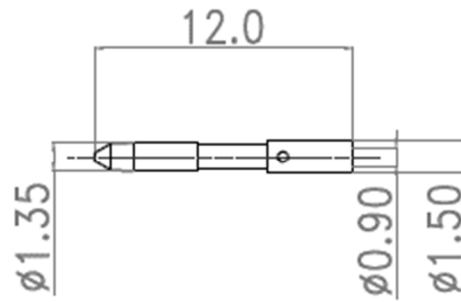
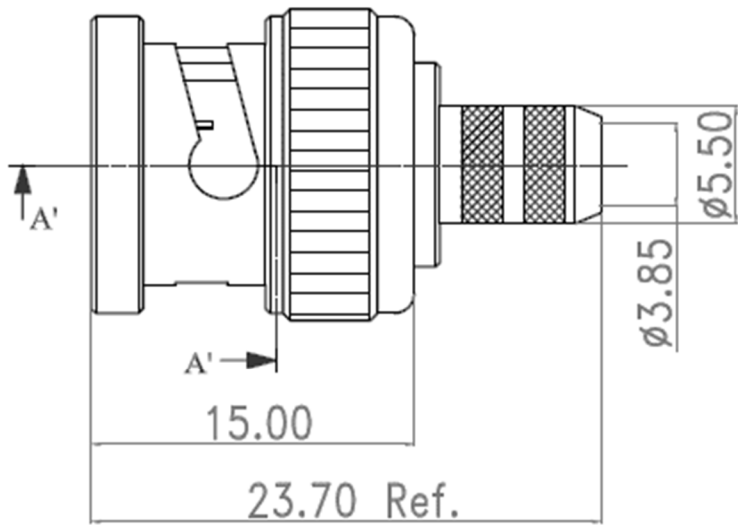
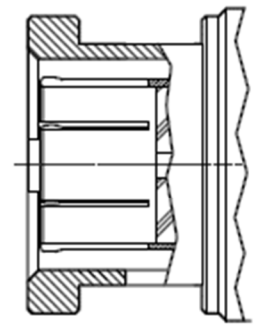
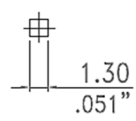


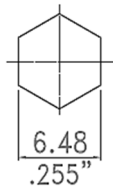
Recommended Cable Stripping Dimensions



Section A'-A' 75 ohm



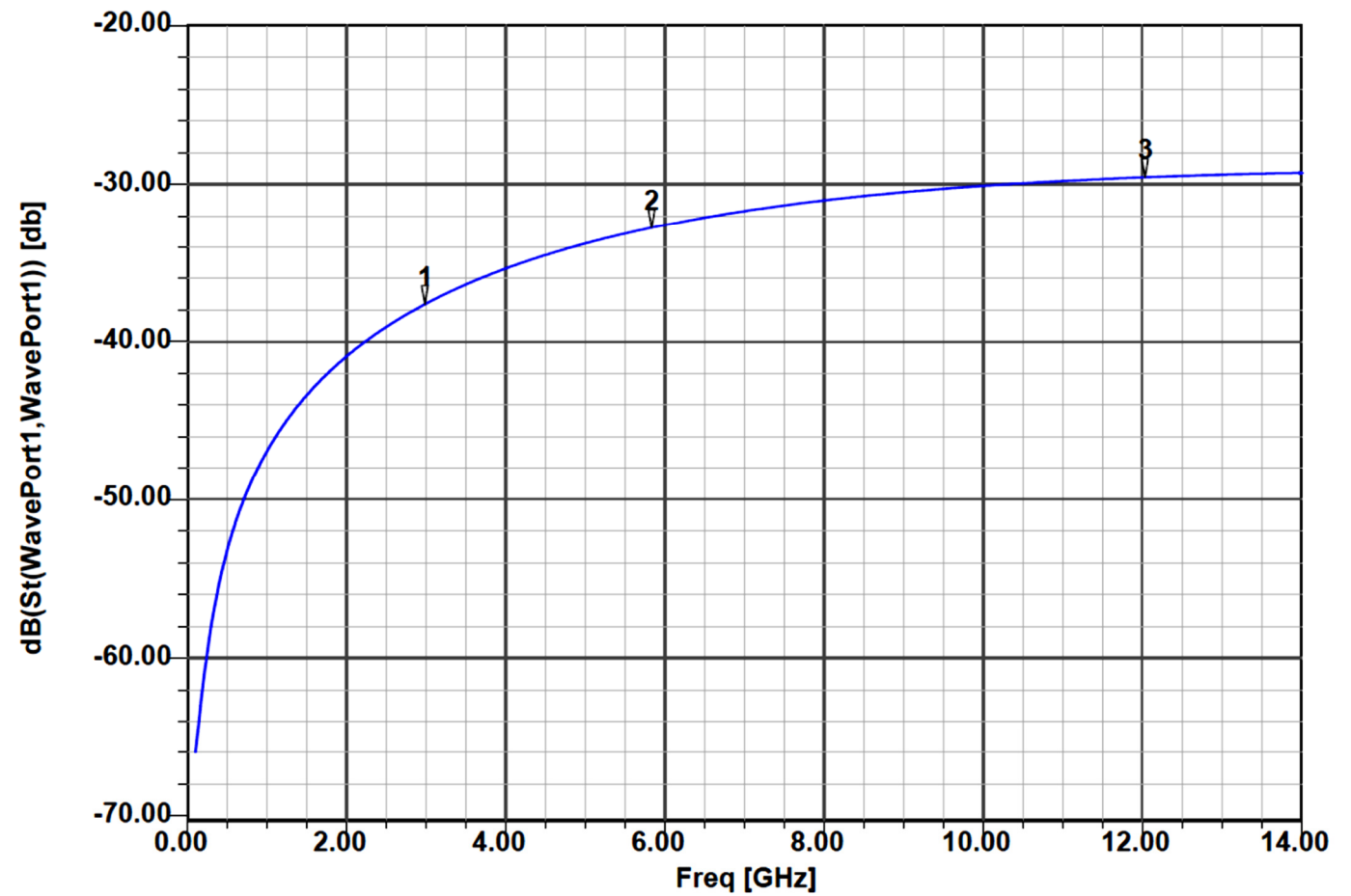
Recommended Crimped Dimensions for Center Pin



Recommended Crimped Dimensions for Ferrule

TITLE	12 Ghz 75 Ohm BNC Cable Plug B1505A, RG59U
RoHS Compliant	Cambridge Electronic Industries Ltd Denny Industrial Centre, Waterbeach, Cams. CB25 9QR Tel: (01223) 860041

1.0	Origin	07/07/2015
Issue.	CHANGE	Date
Origin.		07/07/2015
Drn.	P. Fayers	07/07/2015
Chkd.		07/07/2015
Dwg. No.	XBT-1069-NGAB	

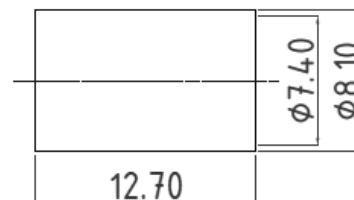
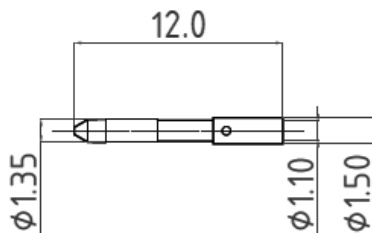
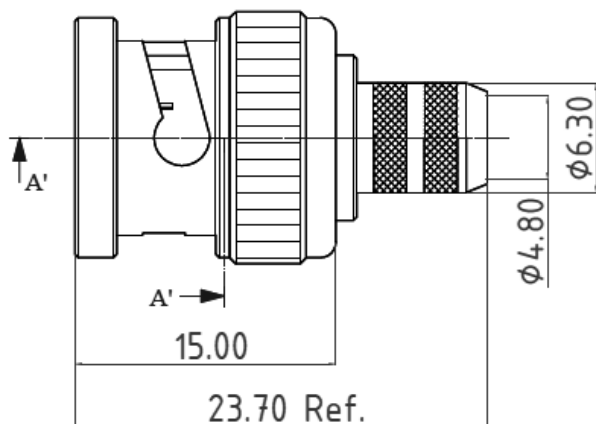


X1= 2.98GHz
Y1= -37.53

X2= 5.83GHz
Y2= -32.70

X3= 12.04GHz
Y3= -29.51

5	Ferrule	Brass	Nickel
4	Pin	Brass	Gold
3	Insulator	PTFE	None
2	Body	Brass	Nickel
1	Shell	Brass	Nickel
ITEM	Description	Material	Finish



Electrical :

Impedance : 75 ohm
 Frequency Range : 0~12 GHz .
 Voltage Rating : ≥ 500 V rms.(depending on cable)
 Insulator Resistance : ≥ 5 G Ω
 Dielectric Withstanding Voltage : 1500 V rms .
 Contact Resistance : Center Contact ≤ 1.5 m Ω .
 Outer Contact ≤ 1 m Ω .
 VSWR : < 1.2 (0 ~ 12 GHz)

^(Remark): The above electrical specification is tested by simulation software and it's for the connector only. It could be affected by those which can't work properly at higher frequency, such as cable, adapter, VNA, etc.

Mechanical :

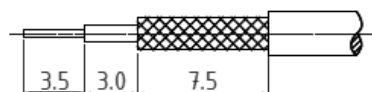
Mating : Bayonet Coupling.
 Engagement Force : 0.6~2.5 lbs

Environmental :

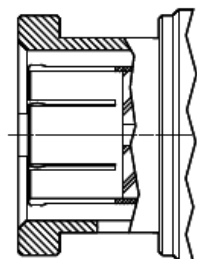
Temperature Range : -65°C to 165°C
 Corrosion(Salt Spray) : MIL-STD-202, Method 101, Cond. B
 Thermal Shock : MIL-STD-202, Method 107, Cond. B
 Mechanical : MIL-STD-202, Method 213, Cond. G
 Vibration : MIL-STD-202, Method 204, Cond. B

Finish : [Unit of Plating Thickness Is in Micro Inch(μ)]

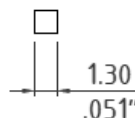
1. Nickel Plating Thickness : 50 μ " min.
2. Gold Plating Thickness : 2 μ " max.



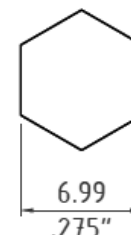
Recommended Cable Stripping Dimensions



Section A'-A' 75 Ω



Recommended Crimping Dimensions for Center Pin



Recommended Crimping Dimensions for Ferrule

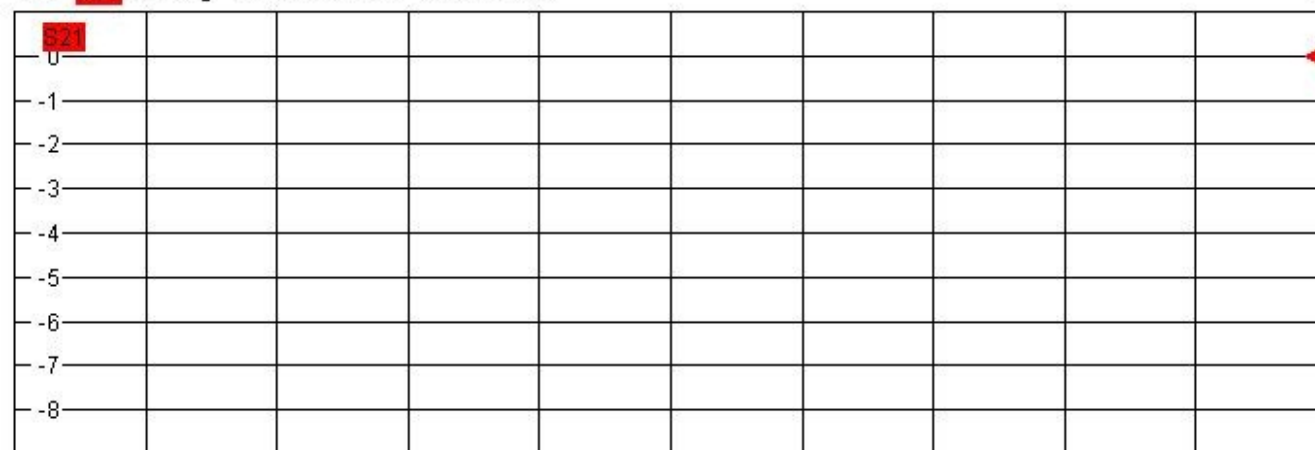
5	Ferrule	Brass	Finish 1
4	Inner Contact	Brass	Finish 1/2
3	Insulator	PTFE	None
2	Body	Brass	Finish 1
1	Shell	Brass	Finish 1
ITEM	Description	Material	Finish

TITLE	75 Ω BNC Plug for RG6 & B1694A
RoHS Compliant	Cambridge Electronic Industries Ltd Denny Industrial Centre, Waterbeach, Cambs. CB25 9QR Tel: 01223 860041

1.0	Origin	03/10/16
ISSUE	CHANGE	DATE
Origin		
Drn.	P. Fayers	04/10/16
Chkd.		
Dwg. No.	XBT-1069-NGAS	

Trc1 S21 dB Mag 1 dB / Ref 0 dB Cal Gat Offs

1



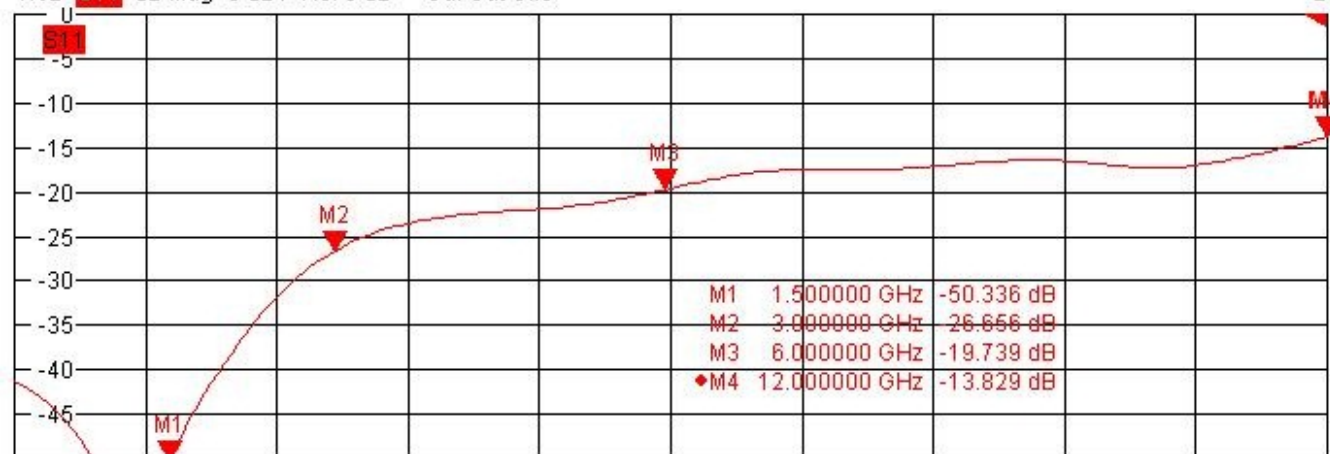
Ch1 fb Start 100 MHz

Pb 0 dBm

Stop 12 GHz

Trc2 S11 dB Mag 5 dB / Ref 0 dB Cal Gat Offs

2



Ch1 fb Start 100 MHz

Pb 0 dBm

Stop 12 GHz

TITLE

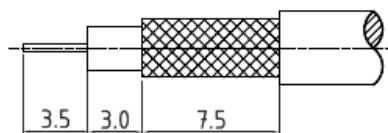
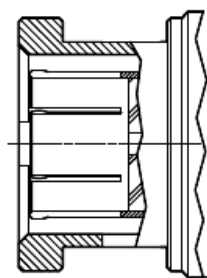
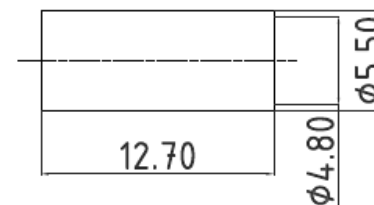
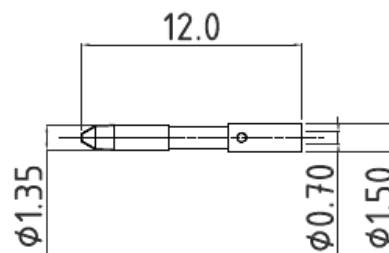
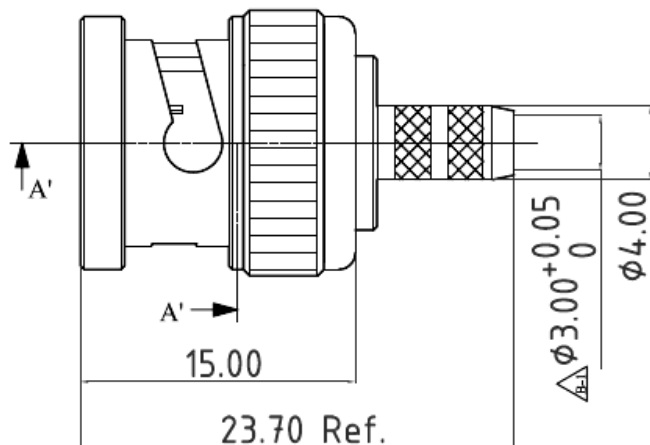
75 Ω BNC Plug for RG6 & B1694A

**RoHS
Compliant**

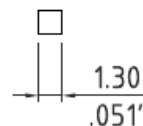
Cambridge Electronic Industries Ltd

Denny Industrial Centre, Waterbeach, Cambs. CB25 9QR
Tel: 01223 860041

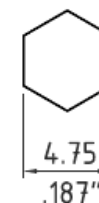
1.0	Origin	03/10/16
ISSUE	CHANGE	DATE
Origin		
Drn.	P. Fayers	04/10/16
Chkd.		
Dwg. No.	XBT-1069-NGAS	



Recommended Cable Stripping Dimensions



Recommended Crimping
Dimensions for Center Pin



Recommended Crimping
Dimensions for Ferrule

Section A'-A' 75 ohm

	Ferrule	Brass	Nickel
4	Pin	Brass	Gold
3	Insulator	PTFE	None
2	Body	Brass	Nickel
1	Shell	Brass	Nickel
ITEM	Description	Material	Finish

TITLE 12 GHz BNC Plug for Belden 1855A

RoHS
Compliant



Cambridge Connectors

Denny Industrial Centre, Waterbeach, Cambridge. CB25 9QR
Tel: (01223) 860041 Fax: (01223) 863625

1.1	RL Graph Added	11/021/2015
1.0	Origin	05/02/2015
Iss. No.	CHANGE	Sig.Date
Originated	PF	05/02/2015
Drn.	PF	05/02/2015
Chkd.		05/02/2015
Dwg. No.	XBT-1069-NGBA	

20 Jan 2014

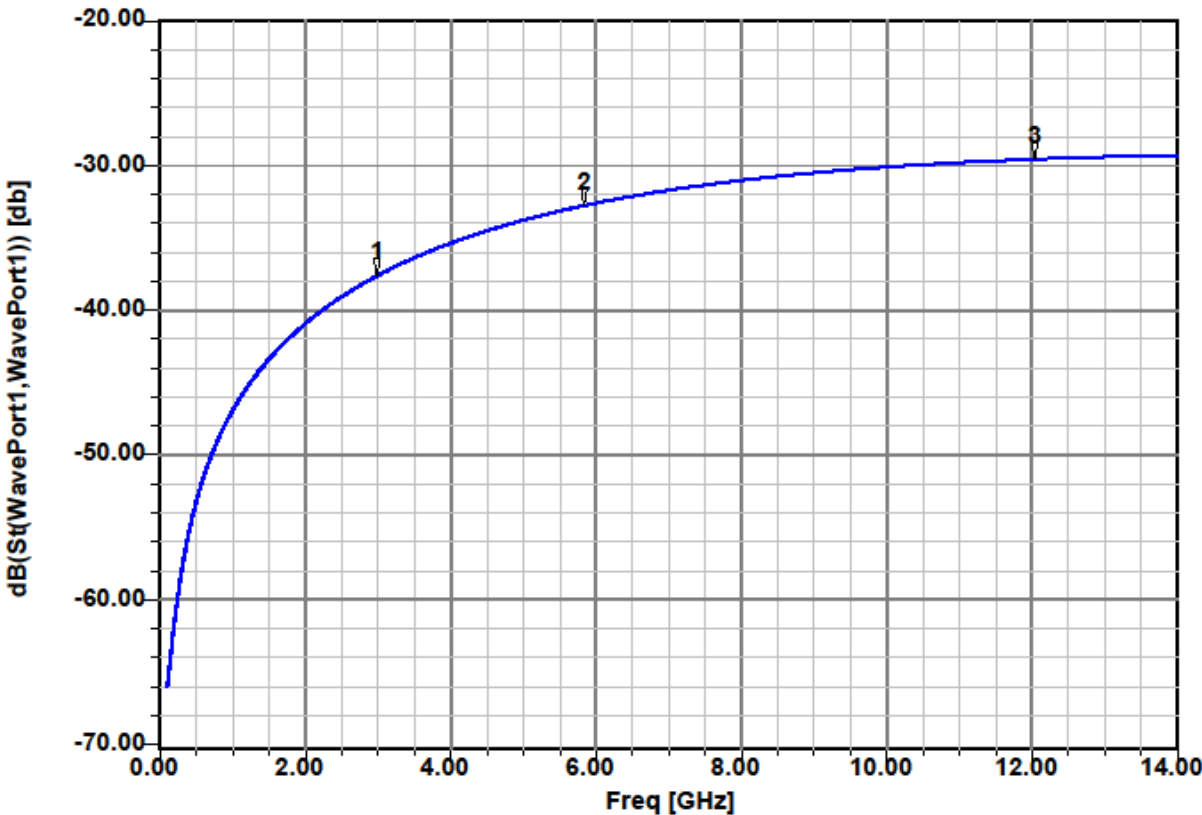
Ansoft Corporation
XY Plot 7
HFSSDesign1

22:40:12

Y1

dB(St(WavePort1,Wa

Setup3 : Sweep3



X1= 2.98GHz
Y1= -37.53

X2= 5.83GHz
Y2= -32.70

X3= 12.04GHz
Y3= -29.51

TITLE

Enhanced BNC Plug for Belden 1855A

RoHS

Compliant

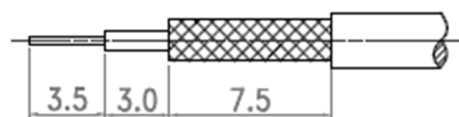
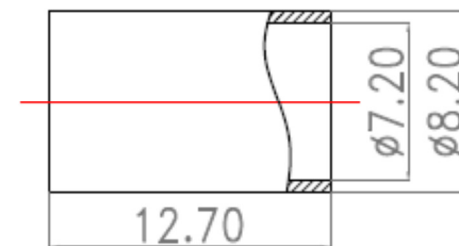
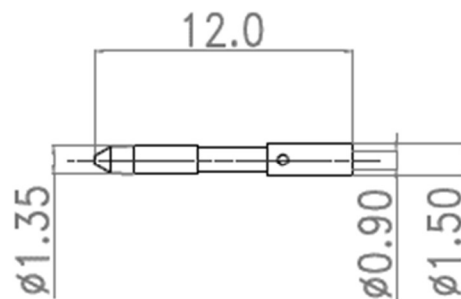
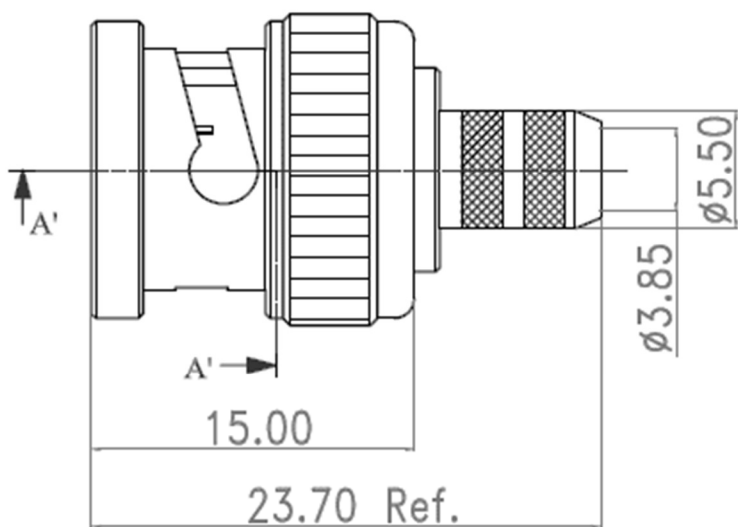


Cambridge Connectors

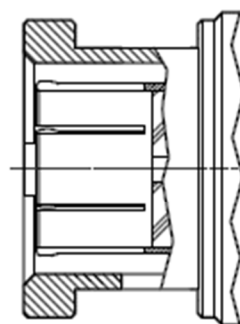
Denny Industrial Centre, Waterbeach, Cambridge. CB25 9QR

Tel: (01223) 860041 Fax: (01223) 863625

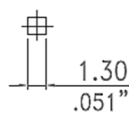
1.0	Origin	26/03/2015
Iss. No.	CHANGE	Sig.Date
Originated	PF	26/03/2015
Drn.	PF	26/03/2015
Chkd.		26/03/2015
Dwg. No.	NPF 5319	



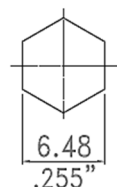
Recommended Cable Stripping Dimensions



Section A'-A' 75 ohm



Recommended Crimped
Dimensions for Center Pin



Recommended Crimped
Dimensions for Ferrule

TITLE

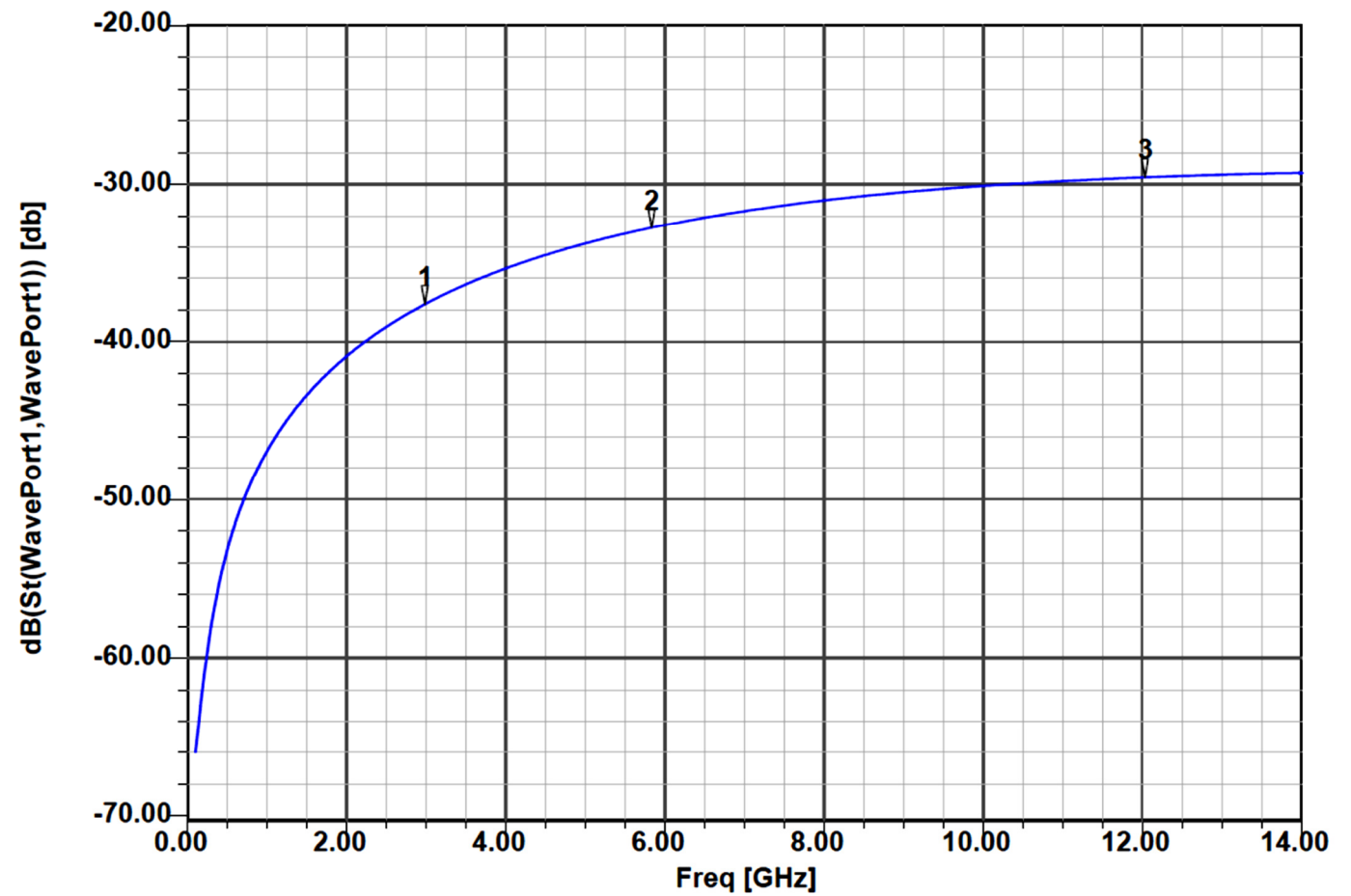
12 Ghz 75 Ohm BNC Cable Plug
B1505F

**RoHS
Compliant**

Cambridge Electronic Industries Ltd

Denny Industrial Centre, Waterbeach, Cams. CB25 9QR
Tel: (01223) 860041

1.0	Origin	07/07/2015
Issue.	CHANGE	Date
Origin.		07/07/2015
Drn.	P. Fayers	07/07/2015
Chkd.		07/07/2015
Dwg. No.	XBT-1069-NGBC	

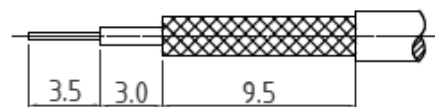
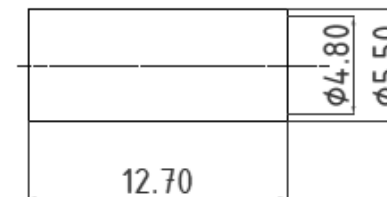
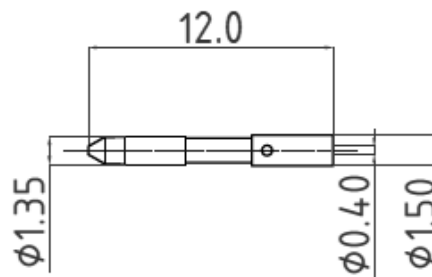
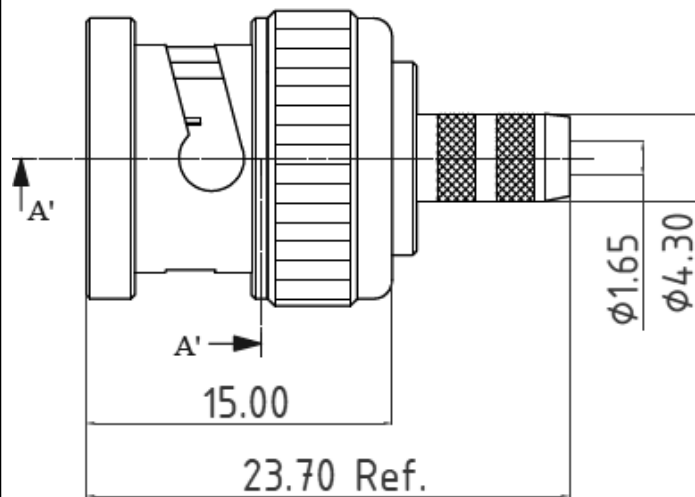


X1= 2.98GHz
Y1= -37.53

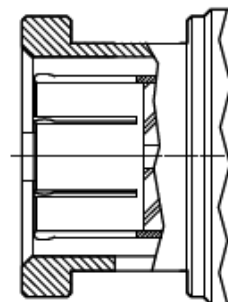
X2= 5.83GHz
Y2= -32.70

X3= 12.04GHz
Y3= -29.51

5	Ferrule	Brass	Nickel
4	Pin	Brass	Gold
3	Insulator	PTFE	None
2	Body	Brass	Nickel
1	Shell	Brass	Nickel
ITEM	Description	Material	Finish

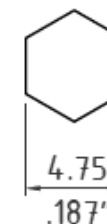


Recommended Cable Stripping Dimensions



Section A'-A' 75 Ω

Centre Pin
Solder Only



Recommended Crimping
Dimensions for Ferrule

Electrical :

Impedance : 75 ohm
Frequency Range : 0-12 GHz .
Voltage Rating : ≥ 500 V rms. (depending on cable)
Insulator Resistance : ≥ 5 G Ω
Dielectric Withstanding Voltage : 1500 V rms .
Contact Resistance : Center Contact ≤ 1.5 m Ω .
Outer Contact ≤ 1 m Ω .
VSWR : < 1.2 (0 ~ 12 GHz)

** (Remark): The above electrical specification is tested by simulation software and it's for the connector only. It could be affected by those which can't work properly at higher frequency, such as cable, adapter, VNA, etc.

Mechanical :

Mating : Bayonet Coupling
Engagement Force : 0.6-2.5 lbs

Environmental :

Temperature Range : -65°C to 165°C
Corrosion (Salt Spray) : MIL-STD-202, Method 101, Cond. B
Thermal Shock : MIL-STD-202, Method 107, Cond. B
Mechanical : MIL-STD-202, Method 213, Cond. G
Vibration : MIL-STD-202, Method 204, Cond. B

Finish : [Unit of Plating Thickness Is in Micro Inch (μ)]

1. Nickel Plating Thickness : 50 μ " min.
2. Gold Plating Thickness : 2 μ " max.

5	Ferrule	Brass	Finish 1
4	Inner Contact	Brass	Finish 1/2
3	Insulator	PTFE	None
2	Body	Brass	Finish 1
1	Shell	Brass	Finish 1
ITEM	Description	Material	Finish

TITLE	12 GHz 75 Ohm BNC Plug for CKKoax1
RoHS Compliant	Cambridge Electronic Industries Ltd Denny Industrial Centre, Waterbeach, Cambs. CB25 9QR Tel: 01223 860041

1.1	Removed crimp info for centre pin	28/04/16
1.0	Origin	19/2/16
ISSUE	CHANGE	DATE
Origin		
Drn.	P. Fayers	19/2/16
Chkd.		
Dwg. No.	XBT-1069-NGDE	