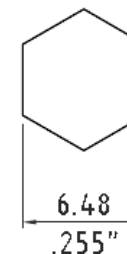
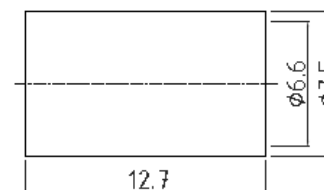
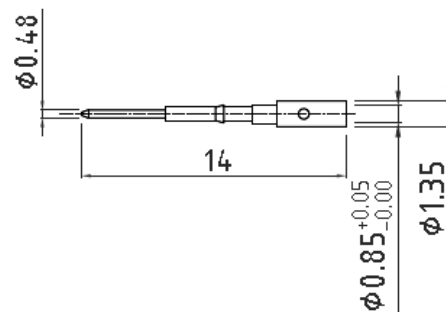


Recommended Cable Stripping Dimensions



Recommended Crimping
Dimensions for Ferrule

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

1. Nickel plating thickness : 80 μ "

2. Gold plating thickness : Gold Flash

4	Ferrule	Brass	Finish 1
3	Pin	Brass	Finish 1/2
2	Insulator	PTFE	None
1	Body	Brass	Finish 1
ITEM	Description	Material	Finish

TITLE Enhanced 75 Ohm 1.0/2.3 Plug for RG 59,
B1505A, B1505F, Gepco VHM2000/M



Cambridge Connectors

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

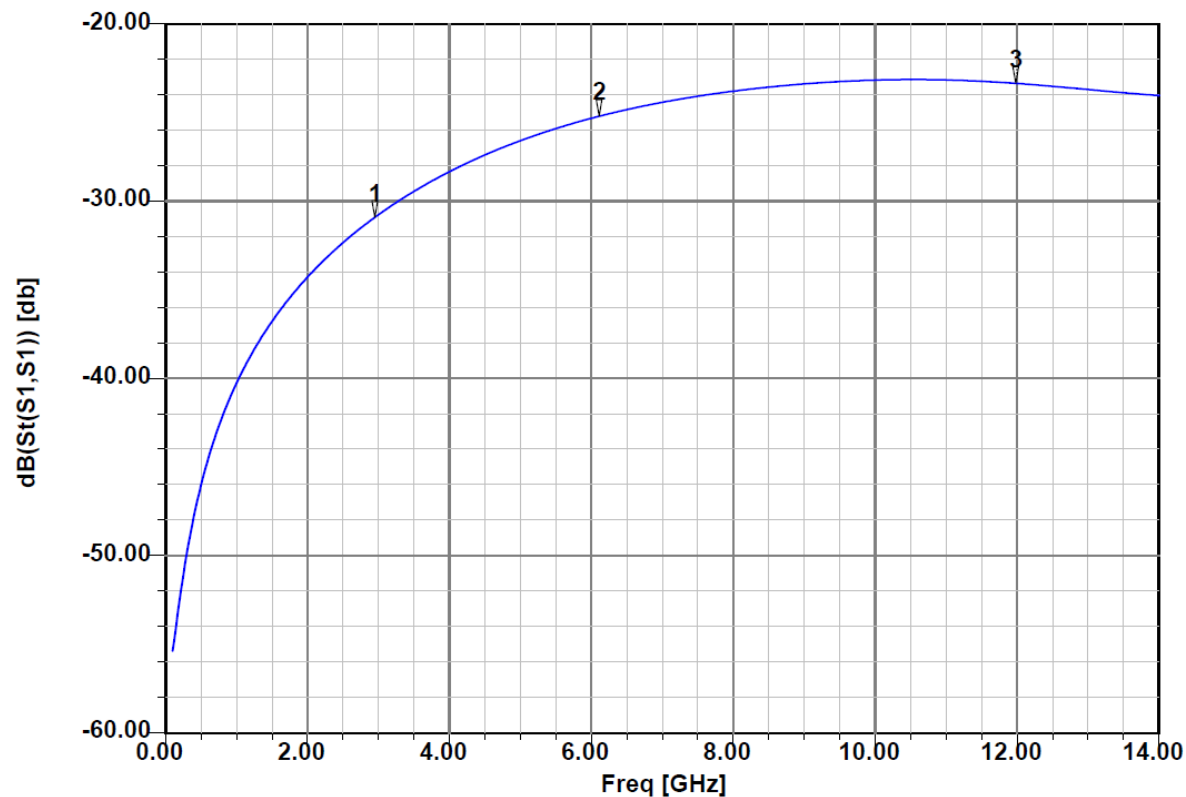
1.3	RL Data Added	06/01/2015
1.2	Max Dia Chg	13/02/2014
1.1	C-Contact hole chg to .85	27/06/2013
1.0	Origin	06/01/2015
Iss. No.	CHANGE	Sig.Date
Originated	PF	06/01/2015
Drn.	PF	06/01/2015
Chkd.		06/01/2015
Dwg. No.	XGT-8013-NGAB	

25 Dec 2014

Ansoft Corporation
XY Plot 3
HFSSDesign1

00:06:54

Y1
dB(St(S1,S1)) [db]
Setup1 : Sweep3



X1= 2.95GHz X2= 6.11GHz X3= 11.98GHz
Y1= -30.91 Y2= -25.21 Y3= -23.35

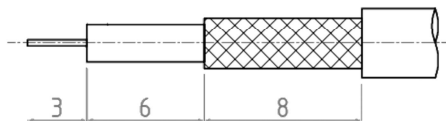
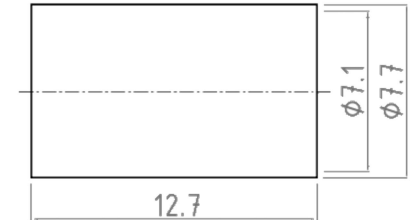
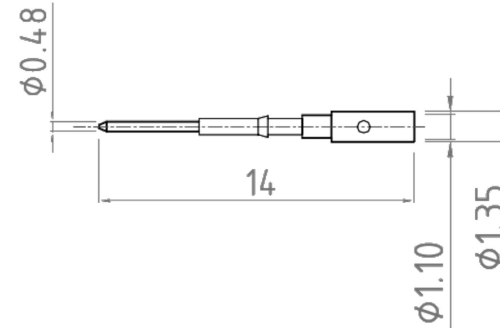
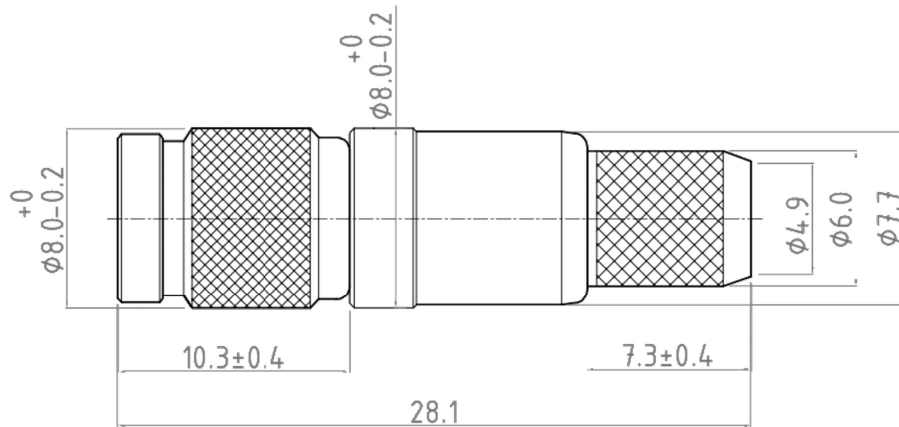
4	Ferrule	Brass	Finish 1
3	Pin	Brass	Finish 1/2
2	Insulator	PTFE	None
1	Body	Brass	Finish 1
ITEM	Description	Material	Finish

TITLE Enhanced 75 Ohm 1.0/2.3 Plug for RG 59,
B1505A, B1505F, Gepco VHM2000/M

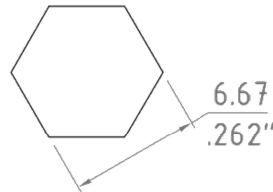


Cambridge Connectors
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1.3	RL Data Added	06/01/2015
1.2	Max Dia Chg	13/02/2014
1.1	C-Contact hole chg to .85	27/06/2013
1.0	Origin	06/01/2015
Iss. No.	CHANGE	Sig.Date
Originated	PF	06/01/2015
Drn.	PF	06/01/2015
Chkd.		06/01/2015
Dwg. No.	XGT-8013-NGAB	



Recommended Cable Stripping Dimensions



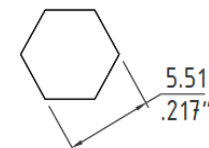
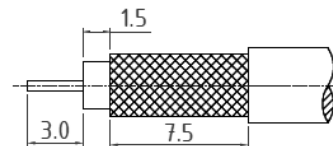
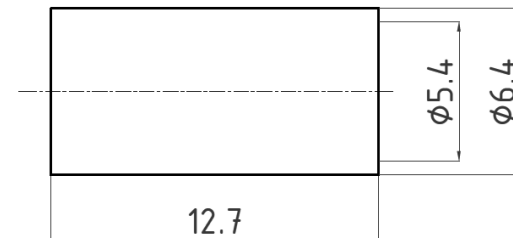
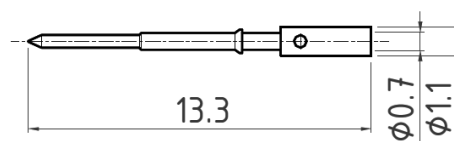
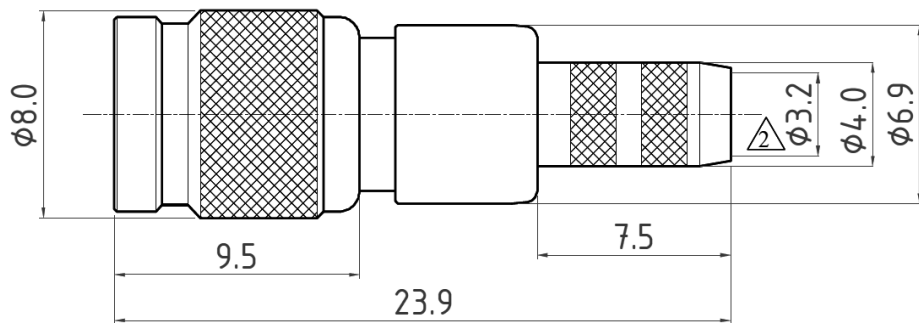
Recommended Crimping
Dimensions for Ferrule

Finish [Unit of Plating Thickness Is in Micro Inch(μ)]
 1. Nickel Plating Thk. : 80 μ " min. (Under Plating)
 2. Gold Plating Thk. : 2 μ " max. (Over Finish 1)

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

1.3	Conn Interface Dia Chg	22/03/23
1.2	Max Dia Chg	13/02/14
1.1	Description update	03/12/13
1.0	Origin	13/02/14
ISSUE	CHANGE	DATE
Origin	P. Fayers	14/11/13
Drn.	P. Fayers	14/11/13
Chkd.		14/11/13
Dwg. No.	XGT-8013-NGAS	

TITLE	1.0/2.3 75 Ohm Plug for Belden 1694A, RG6/U
RoHS Compliant	Cambridge Electronic Industries Ltd Denny Industrial Centre, Waterbeach, Cambs. CB25 9QR Tel: 01223 860041



Recommended Cable Stripping Dimensions

Recommended Crimping Dimensions for Ferrule

Crimp Tool: TLG 123

Electrical :

Impedance : 75 ohm
Frequency Range : 0-6 GHz .
Voltage Rating : 500 V rms.
Insulator Resistance : $\geq 5 \text{ G}\Omega$.
Dielectric Withstanding Voltage : 1000 V rms .
Contact Resistance : Center Contact $\leq 3 \text{ m}\Omega$.
Outer Contact $\leq 2.5 \text{ m}\Omega$.
VSWR : 0-6 GHz < 1.2 .

Mechanical :

Mating : Quick-Lock Coupling.
Cable Retention Force: $\geq 20 \text{ lbs}$.

Environmental :

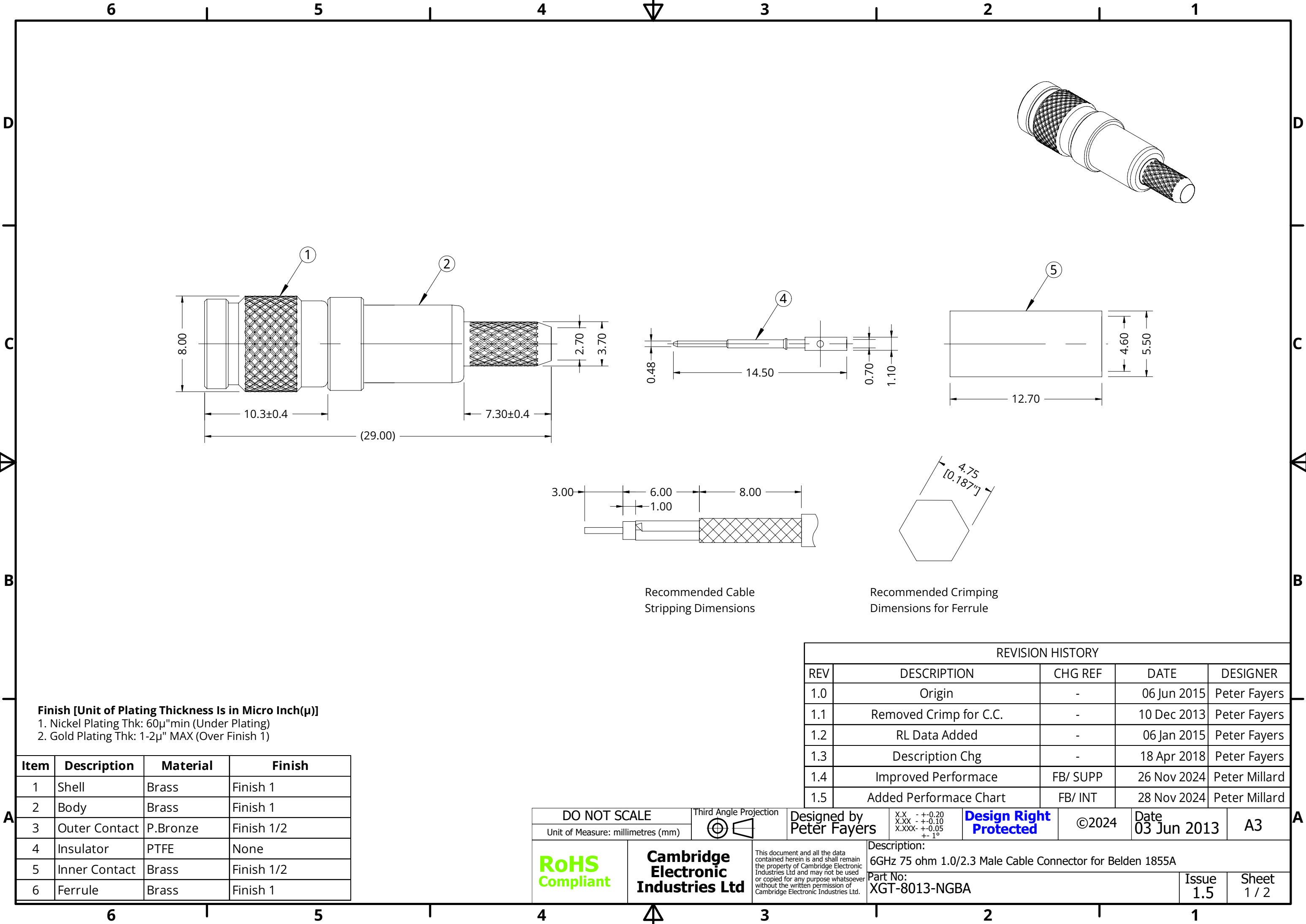
Temperature Range : -45°C to 85°C
Corrosion (Salt Spray) : MIL-STD-202, Method 101, Cond. C
Thermal Shock : MIL-STD-202, Method 107, Cond. B
Mechanical : MIL-STD-202, Method 213, Cond. B
Vibration : MIL-STD-202, Method 204, Cond. A

Finish [Unit of Plating Thickness Is in Micro Inch (µ)]
1. Nickel Plating Thk. : 50 µ" min. (Under Plating)
2. Gold Plating Thk. : 2 µ" max. (Over Finish 1)

6	Ferrule	Brass	Finish 1
5	Inner Contact	Brass	Finish 1/2
4	Insulator	PTFE	None
3	Body	Brass	Finish 1
2	Outer Contact	P. Bronze	Finish 1/2
1	Shell	Brass	Finish 1
ITEM	Description	Material	Finish

TITLE	1.0/2.3 Cable Plug for UHD 0.6/2.6, B1855A& B4855R & B1855ENH
RoHS Compliant	Cambridge Electronic Industries Ltd Denny Industrial Centre, Waterbeach, Cambs. CB25 9QR Tel: 01223 860041

2.2	Tool Ref Added	02/07/19
2.1	Hex Dim Chg	14/05/19
2.0	Dim Chg 3.0 to 3.2	08/05/19
1.0	Origin	19/03/19
ISSUE	CHANGE	DATE
Origin		
Drn.	P. Fayers	19/03/19
Chkd.		
Dwg. No.	XGT-8013-NGBG	

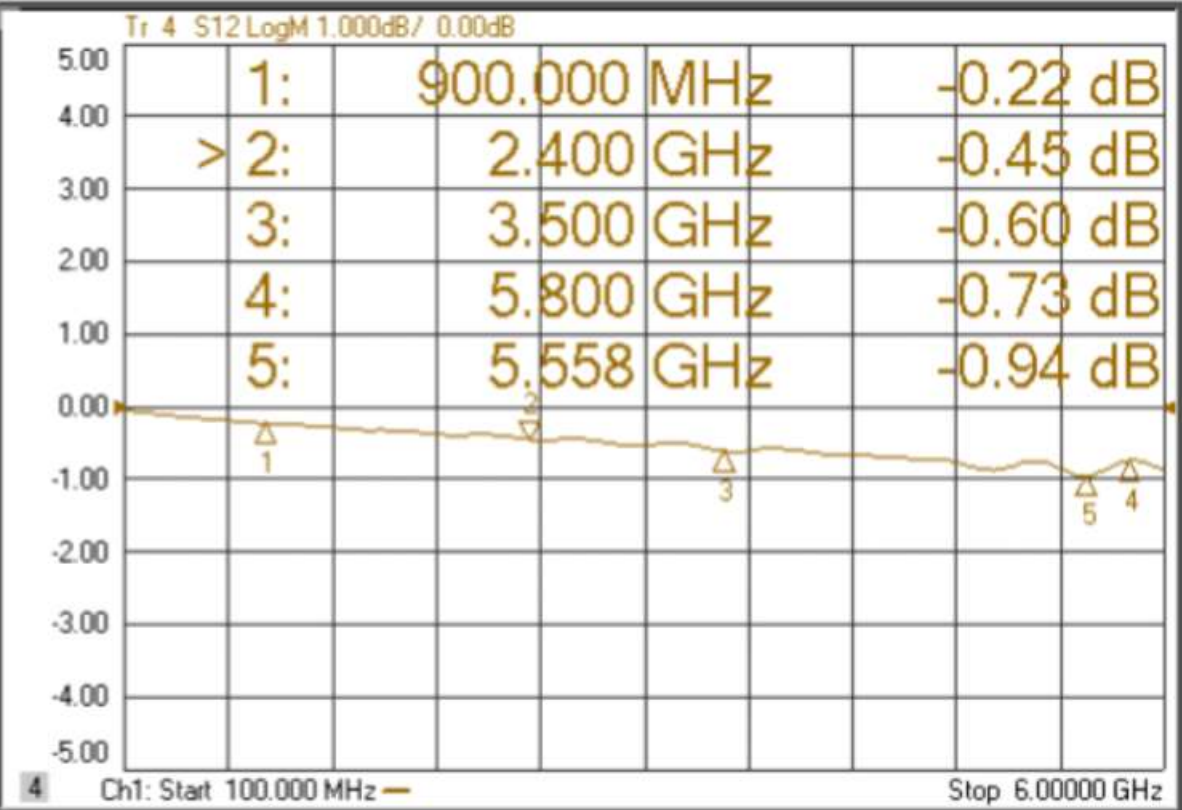
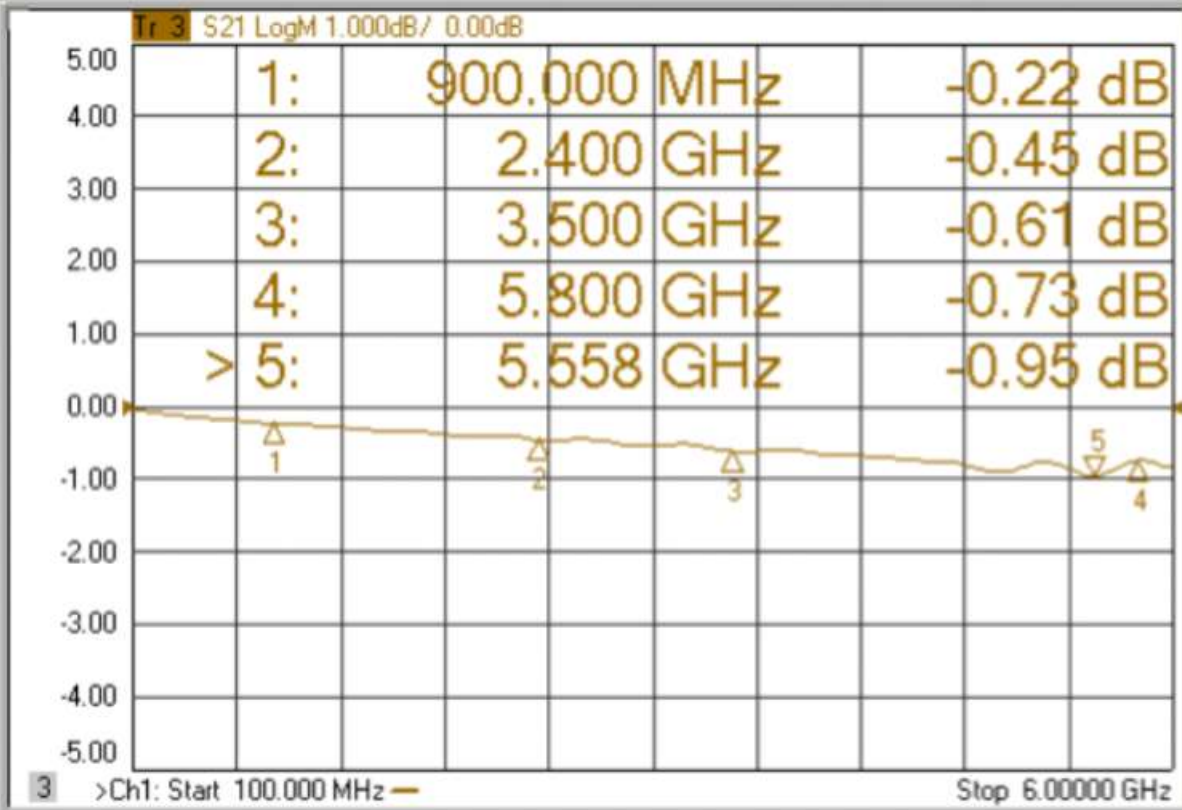
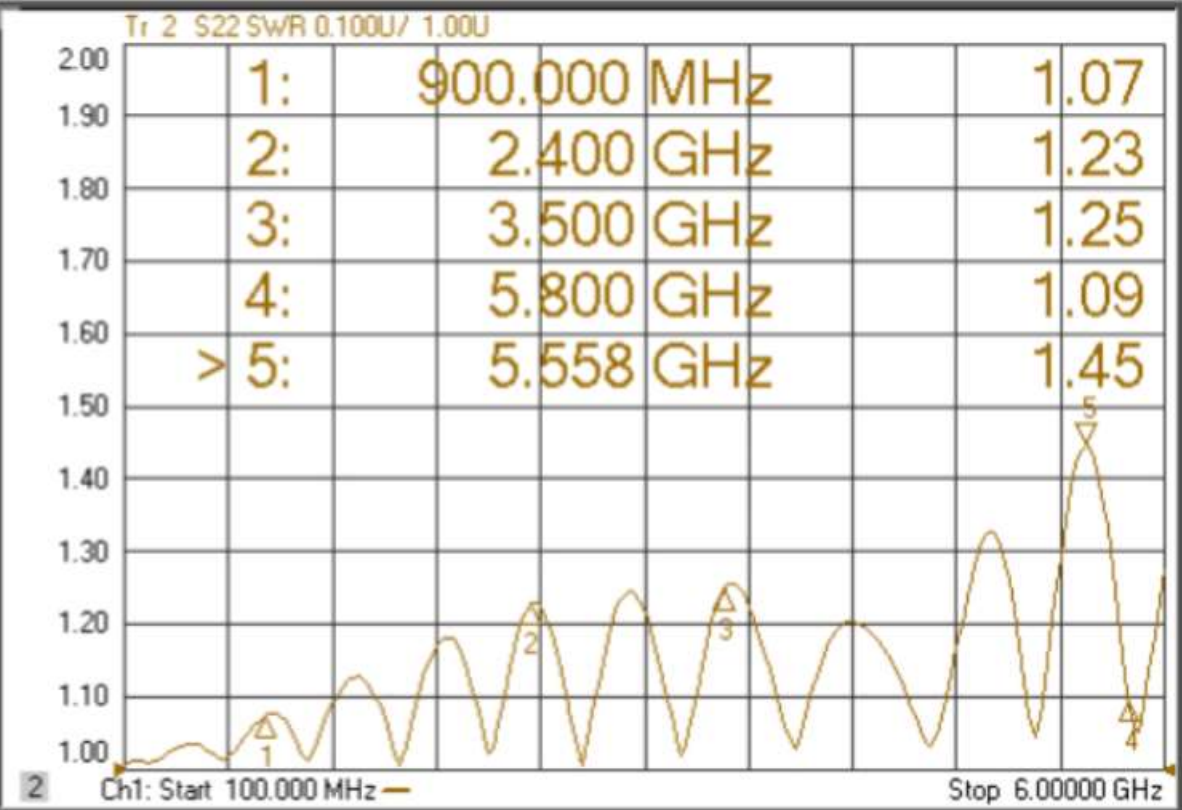
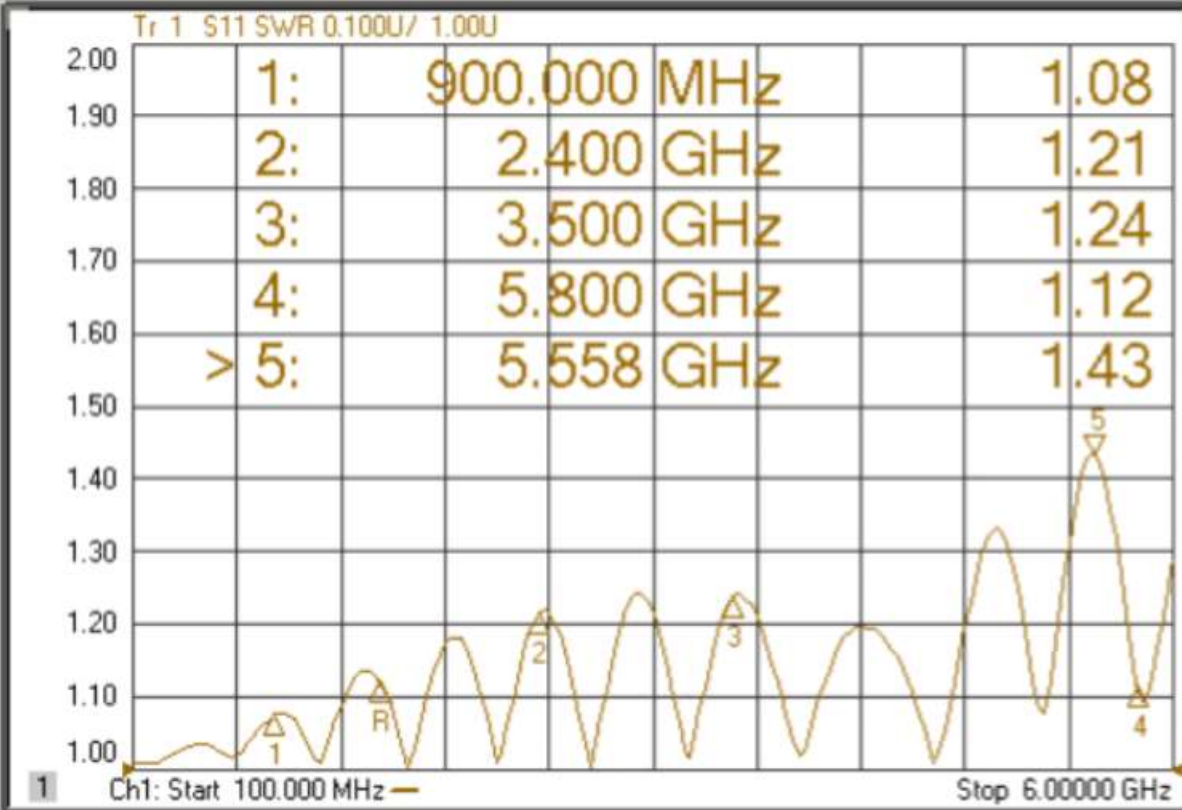


Finish [Unit of Plating Thickness Is in Micro Inch(μ)]
1. Nickel Plating Thk: 60μ"min (Under Plating)
2. Gold Plating Thk: 1-2μ" MAX (Over Finish 1)

Item	Description	Material	Finish
1	Shell	Brass	Finish 1
2	Body	Brass	Finish 1
3	Outer Contact	P.Bronze	Finish 1/2
4	Insulator	PTFE	None
5	Inner Contact	Brass	Finish 1/2
6	Ferrule	Brass	Finish 1

REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
1.0	Origin	-	06 Jun 2015	Peter Fayers
1.1	Removed Crimp for C.C.	-	10 Dec 2013	Peter Fayers
1.2	RL Data Added	-	06 Jan 2015	Peter Fayers
1.3	Description Chg	-	18 Apr 2018	Peter Fayers
1.4	Improved Performace	FB/ SUPP	26 Nov 2024	Peter Millard
1.5	Added Performace Chart	FB/ INT	28 Nov 2024	Peter Millard

DO NOT SCALE		Third Angle Projection		Designed by Peter Fayers	X.X - +0.20 X.XX - +0.10 X.XXX - +0.05 +- 1°	Design Right Protected	©2024	Date 03 Jun 2013	A3		
Unit of Measure: millimetres (mm)											
RoHS Compliant	Cambridge Electronic Industries Ltd	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: 6GHz 75 ohm 1.0/2.3 Male Cable Connector for Belden 1855A								
			Part No: XGT-8013-NGBA						Issue 1.5	Sheet 1 / 2	



DO NOT SCALE
Unit of Measure: millimetres (mm)

Third Angle Projection

Designed by
Peter Fayers

X.X - ± 0.20
X.XX - ± 0.10
X.XXX - ± 0.05
 $\pm 1^\circ$

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Date
03 Jun 2013

A3

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Description:
6GHz 75 ohm 1.0/2.3 Male Cable Connector for Belden 1855A

Part No:
XGT-8013-NGBA

Issue
1.5

Sheet
2 / 2