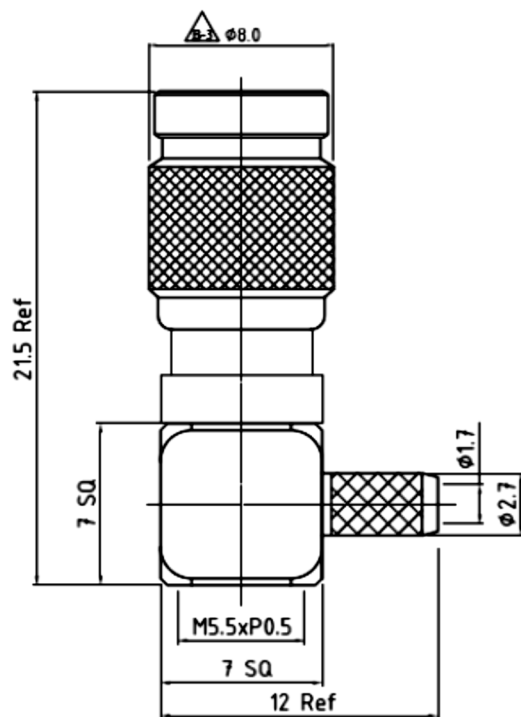
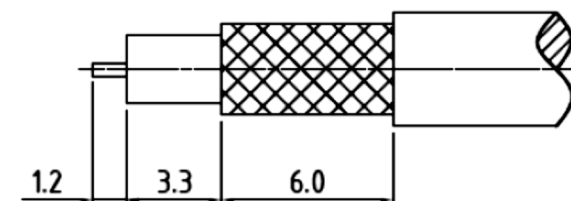


Recommended Crimped
Dimensions for Ferrule

Crimp Tool: TLG 116



Recommended Cable
Stripping Dimensions

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

TITLE

1.0/2.3 R/A Cable Mount 75 Ohm
RG179

RoHS
Compliant

Cambridge Electronic Industries Ltd

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

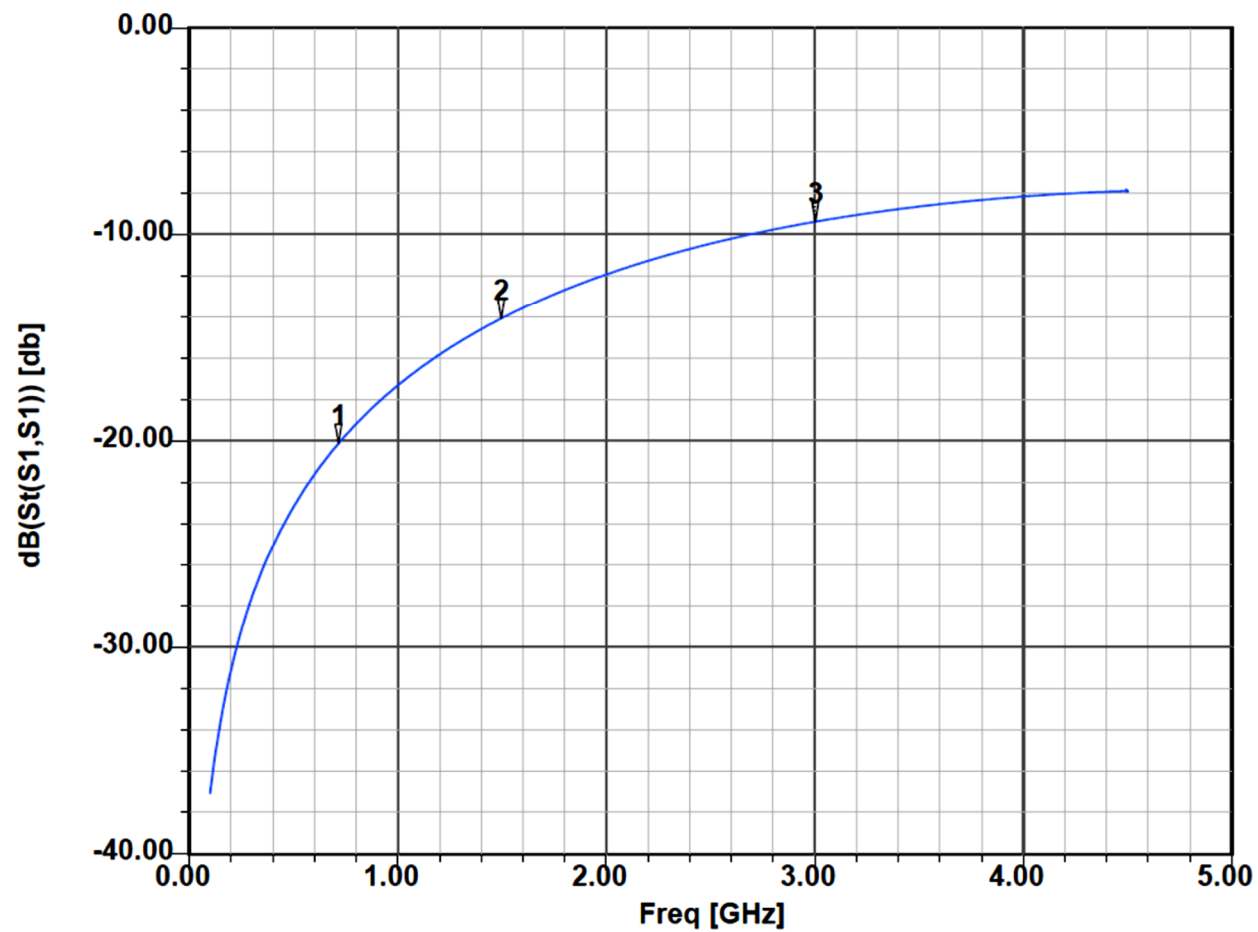
1.2	Crimp Tool No Added	29/11/2016
1.1	Additional Data	01/09/2015
1.0	Origin	02/06/2010
Issue.	CHANGE	Date
Origin.		02/06/2010
Drn.	P. Fayers	02/06/2010
Chkd.		02/06/2010
Dwg. No.	XGT-8004-NGAF	

01 Sep 2015

Ansoft Corporation
XY Plot 1
HFSSDesign1

15:17:12

Y1
dB(St(S1,S1)) [db]
Setup1 : Sweep1



X1= 0.72GHz
Y1= -20.11

X2= 1.50GHz
Y2= -14.08

X3= 3.00GHz
Y3= -9.38

3. Component Plating: (Material / Plating)

Shell: Brass / Ni 50u" min over Cu 30u" min

Body: Brass / Ni 50u" min over Cu 30u" min

Outer Contact: Brass / Gold 1 u" min over Ni 50u" min over Cu 30u" min

Insulator: PTFE / None

Centre Contact: Brass / Gold 1 u" min over Ni 50u" min over Cu 30u" min

Ferrule: Brass / Ni 50u" min over Cu 30u" min

4. IPC (Inductively Coupled Plasma) Data:

Brass: Cu - 58.1%; Pb - 2.72%; Fe - 0.213%; Sn - 0.241%; Fe+Sn - 0.454%;
Zn - 38.51%; Cd - 0.0020%; Al - <0.0010%; Ni - 0.104%.

PTFE: Polytetrafluoroethylene - 100%

5. Electrical Data :

Impedance: 75 Ω

Frequency Range: 0 to 3.0 GHz

Return Loss: 0 ~ 1 GHz < 15 dB

1 ~ 3 GHz < 8 dB

Dielectric Withstanding Voltage: 750 Vrms

Voltage Rating: 250 Vrms

Centre Contact Resistance: $\leq 10 \text{ m } \Omega$ (Test Result: 7.27 m Ω)

Outer Contact Resistance: $\leq 3 \text{ m } \Omega$ (Test Result: 0.11 m Ω)

Insulation Resistance: $\geq 1 \text{ G } \Omega$

1. Mechanical Data:

Mating Type: Quick-lock

Engagement Force: $\leq 2.3 \text{ lbs}$

Disengagement Force: $\leq 2.3 \text{ lbs}$

Cable Retention Force: $\geq 12.1 \text{ lbs}$

2. Environmental Specification:

Temperature Range: -40°C ~ 85°C

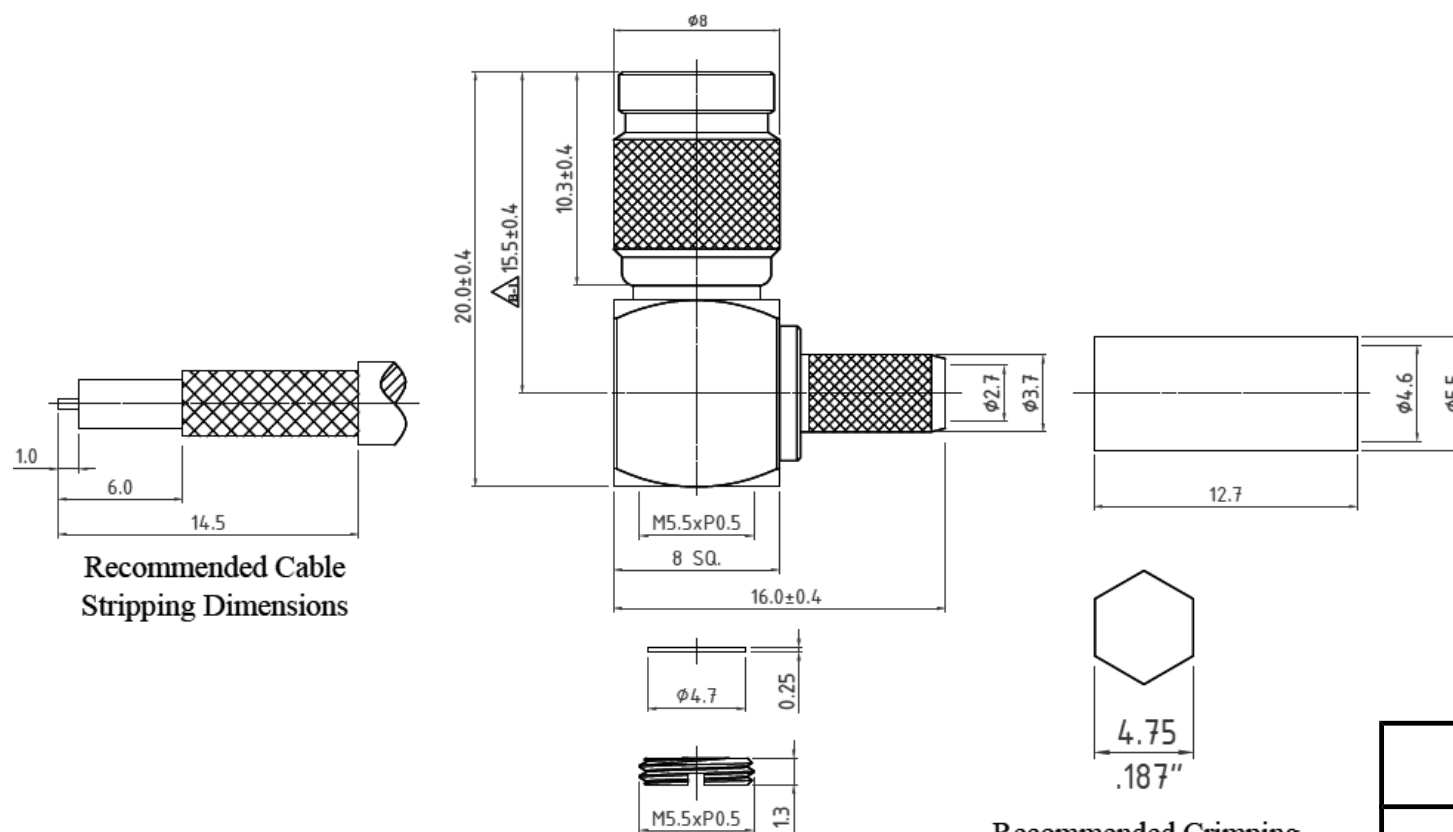
Corrosion (Salt Spray): MIL-STD-202, Method 101, Cond.C

(Test Result: Nickel Plating-24 hr pass; Gold Plating-48 hr pass)

Vibration: MIL-STD-202, Method 204, Cond.A

Thermal Shock: MIL-STD-202, Method 107, Cond.B

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



Recommended Cable Stripping Dimensions

Recommended Crimping Dimensions for Ferrule

Electrical :

Impedance : 75 ohm
Frequency Range : 0~6 GHz . 
Voltage Rating : 250 V rms .(depending on cable)
Insulator Resistance : $\geq 1 \text{ G}\Omega$
Dielectric Withstanding Voltage : 750 V rms .
Contact Resistance : Center Contact $\leq 10 \text{ m}\Omega$.
Outer Contact $\leq 3 \text{ m}\Omega$.

Mechanical :

Mating : Quick-Lock Coupling.
Engagement Force : $\leq 2.3 \text{ lbs}$
Disengagement Force : $\leq 2.3 \text{ lbs}$

Environmental :

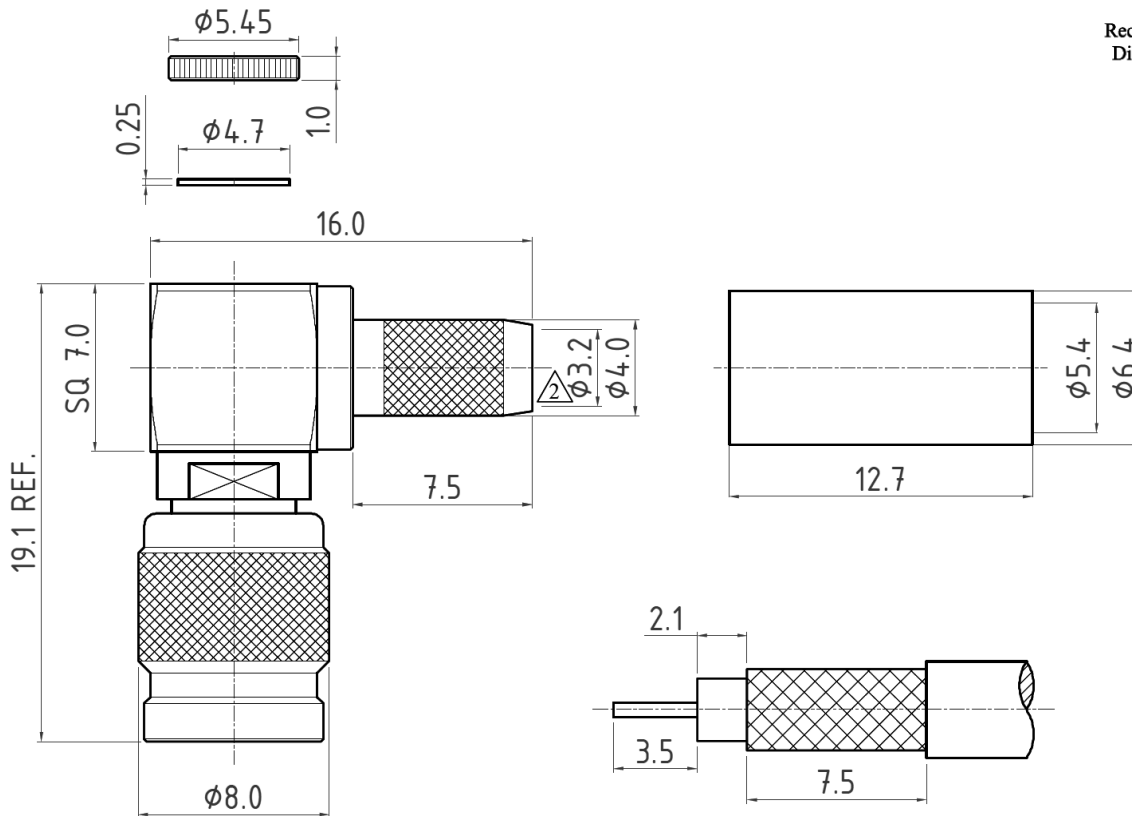
Temperature Range : -40°C to 85°C
Corrosion (Salt Spray) : MIL-STD-202, Method 101, Cond. C
Thermal Shock : MIL-STD-202, Method 107, Cond. B
Mechanical : MIL-STD-202, Method 213, Cond. B
Vibration : MIL-STD-202, Method 204, Cond. A

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

1. Nickel Plating Thickness : 80 μ " min.
2. Gold Plating Thickness : 2 μ " max.

TITLE	1.0/2.3 Right Angle Cable Mount 75 Ohm Plug for B1855A		
RoHS Compliant	Cambridge Electronic Industries Ltd		
	Denny Industrial Centre, Waterbeach, Cambs. CB25 9QR Tel: 01223 860041		

1.1	Freq Re-classified	12/06/18
1.0	Origin	22/05/18
ISSUE	CHANGE	DATE
Origin		
Drn.	P. Fayers	12/06/18
Chkd.		
Dwg. No.	XGT-8004-NGBA	



Recommended Crimping
Dimensions for Ferrule

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 $\leq 2.5 \text{ m}\Omega$.

Mechanical :

Mating : Quick-Lock Coupling.
Cable Retention Force: $\geq 30 \text{ lbs}$.

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)

Recommended Cable Stripping Dimensions

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

TITLE

1.0/2.3 Right Angle 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

2.0	Dim 3.0 chg 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-8004-NGBG	