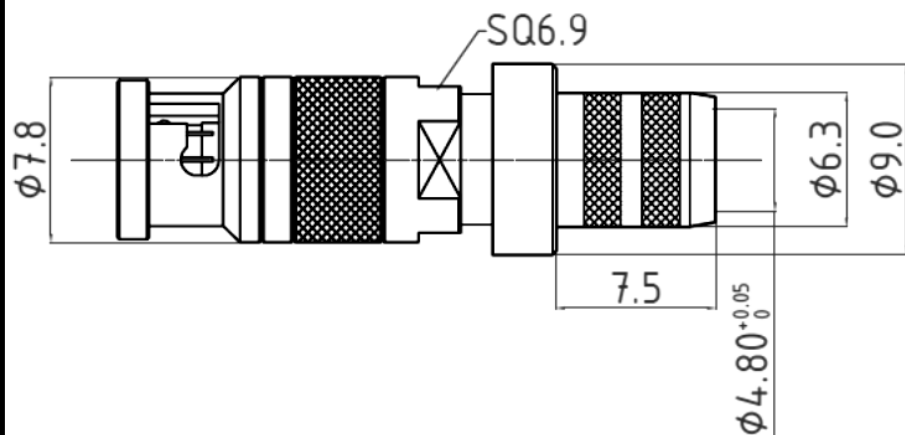
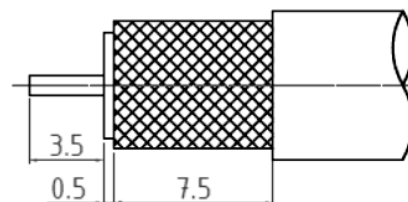


Recommended Crimping
Dimensions for Ferrule

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

1. Nickel Plating

2. Gold Plating Thickness : 2 μ " MAX.



Recommended Cable Stripping Dimensions

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

TITLE

MicroBNC Cable Plug for B1694A

**RoHS
Compliant**

Cambridge Electronic Industries Ltd

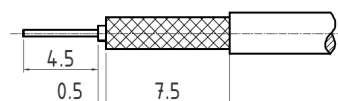
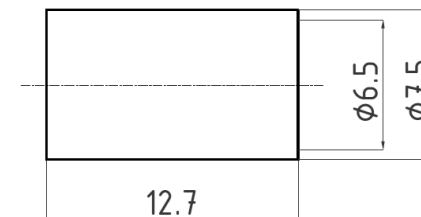
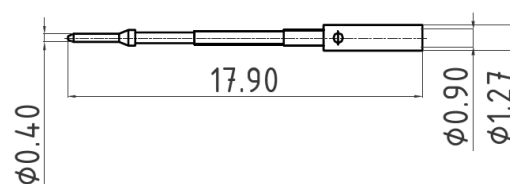
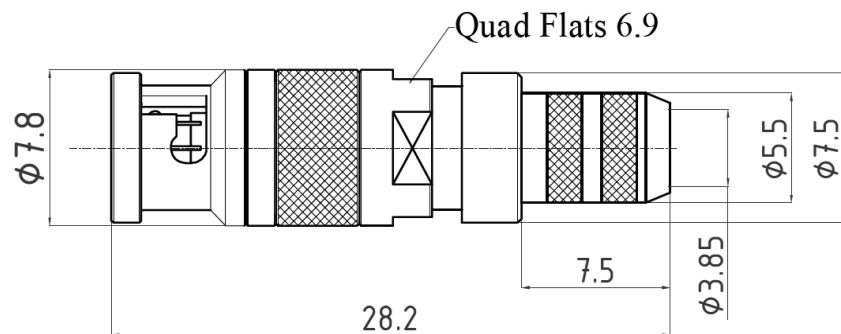
Denny Industrial Centre, Waterbeach, Cams. CB25 9QR

Tel: (01223) 860041

1.1	Spec added	27/10/2015
1.0	Origin	01/04/2015
Issue.	CHANGE	Date
Origin.		01/04/2015
Drn.	P. Fayers	01/04/2015
Chkd.		01/04/2015
Dwg. No.	XPT-D001-NGAS	

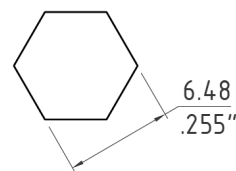
Specification

1. Crimp Plug for BELDEN 1694A
2. **Component Plating: (Material / Plating)**
Shell: Brass / Ni 50u" min over Cu 30u" min
Body: Brass / Ni 50u" min over Cu 30u" min
Insulator: PTFE / None
Center Contact: Becu / Gold 1 u" min over Ni 50u" min over Cu 30u" min
Ferrule: Brass / Ni 50u" min over Cu 30u" min
3. **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%
Becu: Cu - 97.23%; Be - 1.84%; Ni+Co - 0.23%; Ni+Co+Fe - 0.27%; Si - 0.06%; Al - 0.03%; Pb - 0.34%.
4. **Electrical Data :**
Impedance: 75 Ohm
Frequency Range: 0 to 12.0 GHz
Return Loss: 0 ~ 6 GHz < 30 dB
 6 ~ 12 GHz < 20 dB
Dielectric Withstanding Voltage: 500 Vrms
Voltage Rating: 250 Vrms
Center Contact Resistance: $\leq$ 10 mohm
Outer Contact Resistance: $\leq$ 3 mohm
Insulation Resistance: $\geq$ 1 Gohm
5. **Mechanical Data:**
Mating Type: Bayonet Coupling
Recommended Mating Torque: 0.6 lbs ~ 2.5 lbs
Cable Retention Force: $\geq$ 30 lbs
6. **Environmental Specification:**
Temperature Range: -40°C ~ 85°C
Corrosion (Salt Spray): MIL-STD-202, Method 101, Cond.C
Vibration: MIL-STD-202, Method 204, Cond.A
Thermal Shock: MIL-STD-202, Method 107, Cond.B
Mechanical Shock: MIL-STD-202, Method 213, Cond.B



Recommended Cable Stripping Dimensions

Solder Centre
Contact



Recommended Crimping
Dimensions for Ferrule

Electrical :

Impedance : 75 ohm
Frequency Range : 0~12 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 $\leq 2.5 \text{ m}\Omega$.

**(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, etc.

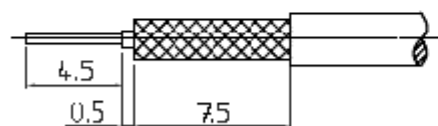
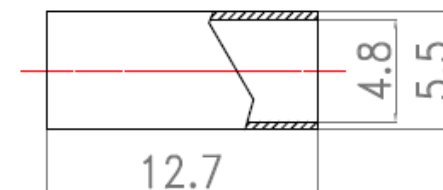
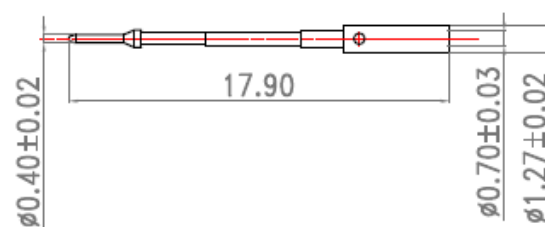
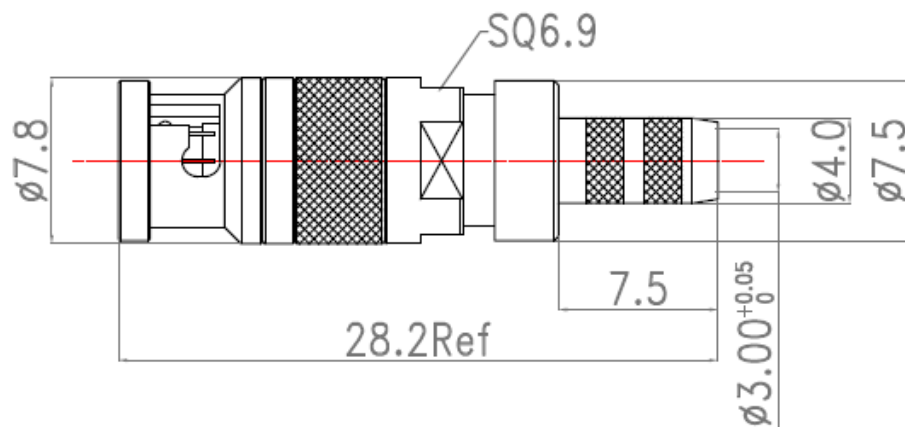
Mechanical :

Mating : Bayonet Coupling.

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. I
Vibration : MIL-STD-202, Method 204, Cond. D

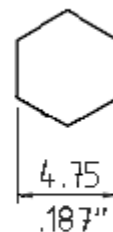
TITLE	Micro BNC cable Plug for RG59,B1505A,B4505R	
RoHS Compliant	Cambridge Electronic Industries Ltd	
	Denny Industrial Centre, Waterbeach, Cambs. CB25 9QR	
	Tel: 01223 860041	
1.1	Centre pin to be soldered	07/07/21
1.0	Origin	16/05/19
ISSUE	CHANGE	DATE
Origin		
Drn.	P. Fayers	07/07/21
Chkd.		
Dwg. No.	XPT-D001-NGAB	



Recommended Cable Stripping Dimensions

It is recommended
Soldering the Centre Pin

Tool No: TLG 109



Recommended Crimping
Dimensions for Ferrule

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

TITLE Micro BNC Cable Plug for B1855a

RoHS
Compliant



Cambridge Connectors

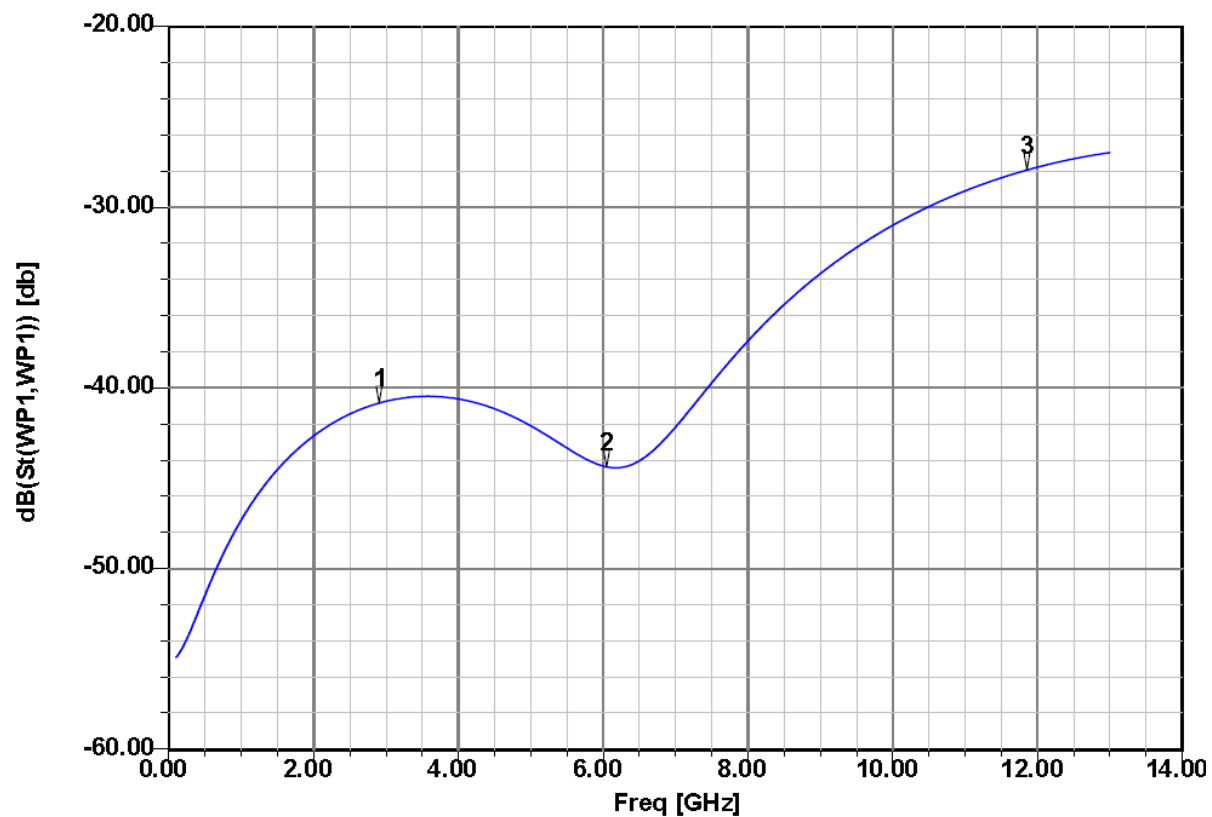
Denny Industrial Centre, Waterbeach, Cambridge. CB25 9QR
Tel: (01223) 860041 Fax: (01223) 863625

1.4	Solder Note	07/07/2021
1.3	Tool No Added	27/03/2017
1.2	Knurl Added	04/12/2014
1.1	RL Data Added	25/09/2014
1.0	Origin	18/09/2014
Iss. No.	CHANGE	Sig.Date
Originated	PF	18/09/2014
Drn.	PF	18/09/2014
Chkd.		18/09/2014
Dwg. No.	XPT-D001-NGBA	

17 Feb 2014

Ansoft Corporation
XY Plot 1
HFSSDesign1

00:12:46



X1= 2.91GHz
Y1= -40.83

X2= 6.05GHz
Y2= -44.36

X3= 11.86GHz
Y3= -27.94

TITLE Micro BNC Cable Plug for B1855a

RoHS
Compliant



Cambridge Connectors

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

1.0	Origin	30/01/2015
Iss. No.	CHANGE	Sig.Date
Originated	PF	30/01/2015
Drn.	PF	30/01/2015
Chkd.		30/01/2015
Dwg. No.	NPF 4909	