

BNC

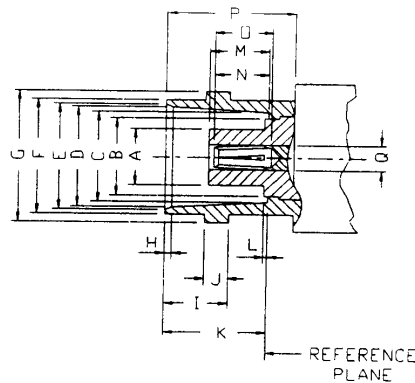
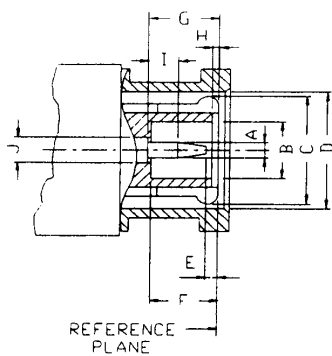
50 ohm 0 – 4 GHz

BNC coaxial connectors are one of the world's most popular RF connectors. They are miniature, lightweight and can operate satisfactorily up to 11 GHz. The BNC is typically used in applications from DC to 4 GHz and yield low reflection this frequency range.

Cable terminations are available in crimp, clamp, solder and jacket quick twist configurations. The twostud bayonet lock coupling provides ease of connecting and disconnecting and is ideally suited for applications such as test equipment where this feature is notably significant.

BNC connectors are most prevalent in computer networks, audio, video, data processing and telecommunication equipment because of their size and relatively low installed cost.

INTERFACE DIMENSIONS:



PLUG		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	1.32 (.052)	1.37 (.054)
B	4.83 (.190)	-
C	SLOTTED AND FLATED TO MEET	
D	9.78 (.385)	9.91 (.390)
E	0.08 (.003)	
F	5.28 (.208)	5.79 (.228)
G	5.33 (.210)	5.84 (.230)
H	0.15 (.006)	0.46 (.018)
I	2.00 (.078)	-
J	2.06 (.081)	2.21 (.087)

JACK		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	-	4.72 (.186)
B	-	6.50 (.256)
C	8.10 (.319)	8.15 (.321)
D	8.31 (.327)	8.46 (.333)
E	8.80 (.346)	9.04 (.356)
F	9.60 (.378)	9.70 (.382)
G	10.97 (.432)	11.07 (.436)
H	0.38 (.015)	0.76 (.030)
I	5.18 (.204)	5.28 (.208)
J	1.91 (.075)	2.06 (.081)
K	8.31 (.327)	8.51 (.335)
L	-	0.15 (.006)
M	4.80 (.189)	5.28 (.208)
N	4.72 (.186)	5.23 (.206)
O	4.95 (.195)	-
P	10.52 (.414)	-
Q	2.06 (.081)	2.21 (.087)

Electrical:

Impedance	50 ohm	75 ohm
Frequency Range	0 to 4.0 GHz	0 to 1 GHz
VSWR	1.3 max	
Voltage Rating	500 volts rms max ▪ RG – 58, 141, 142, 223 – 500 volts rms max ▪ RG – 174, 188, 316 – 335 volts rms max	
Dielectric withstanding Voltage	1,500 volts rms max ▪ RG- 58, 141, 142, 223 – 1,000 volts rms max ▪ RG – 174, 188, 316 – 750 volts rms max	
Contact Resistance	center contact = 1.5 Milliohms max outer contact = 0.5 Milliohms max	
RF Leakage	-55 dB min @ 3 GHz	
Insertion Loss	.2 dB max @ 3 GHz	
Insulation Resistance	5,000 Megohms min	

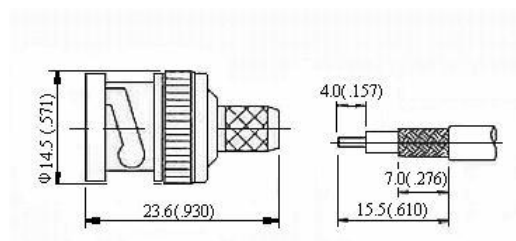
Mechanical & Environmental:

Mating	Two stud bayonet coupling
Durability	5800 matings
Coupling Nut Retention	100 lbs. min
Cable Retention	RG – 58, 141, 142, 223 – 40 lbs min RG – 59, 62A, 210 – 40 lbs min RG – 174, 188, 316 – 20 lbs min RG – 179B, 187A – 20 lbs min
Temperature Range	-65 °C to 85 °C
Vibration	MIL-STD-202 Method 204 Test Cond. B.
Salt Spray	MIL-STD-202 Method 101 Test Cond. B.

Material:

	Material	Plating
Connector Body	Brass	Nickel or Gold
Center Contact	Male: Brass Female: Brass, Phosphor Bronze or Beryllium Copper	Gold Gold
Insulation	Teflon or Delrin	None
Basket	Silicone Rubber Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body

Straight Plug Crimp (BNC)



Description:

Flexible Cable-Crimp Attachment

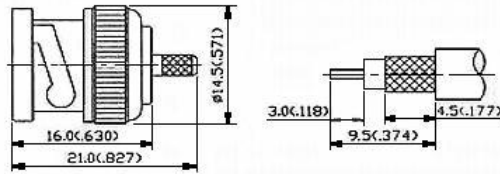
Finish: Gold plated center contact & nickel plated body

Insulation: Delrin (or TPX)

Brass coupling nut

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-1101-DGN	58, 58A, 141A	1.2
BNC-1102-DGN	59, 62A, 210	1.2

Straight Plug Crimp (BNC)



Description:
Flexible Cable-Crimp Attachment

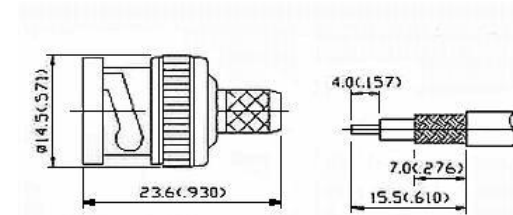
Finish: Gold plated center contact & nickel plated body

Insulation: Teflon TPX

Brass coupling nut

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-1103-TGN	174, 188A, 316	2

Straight Plug Crimp (BNC)



Description:
Flexible Cable-Crimp Attachment

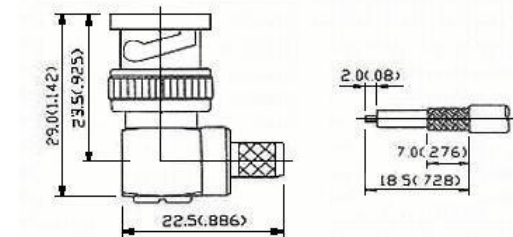
Finish: Gold plated center contact & nickel plated body

Insulation: Delrin TPX

Brass coupling nut

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-1104-DGN	174, 188A, 316	1.2

Right Angle Plug Crimp (Solder Contact) (BNC)



Description:
Flexible Cable-Crimp Attachment

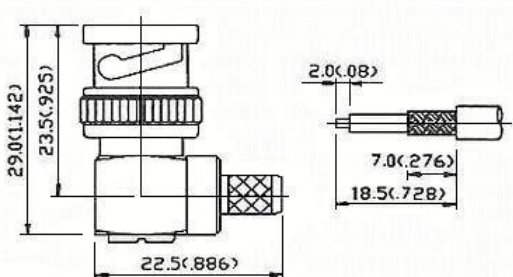
Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

Brass coupling nut

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-1112-DGN	58, 58A, 141A	1.2
BNC-1113-DGN	59, 62A, 210	1.2

Right Angle Plug Crimp (Solder Contact) (BNC)



Description:
Flexible Cable-Crimp Attachment

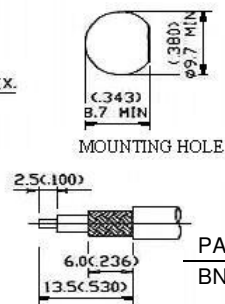
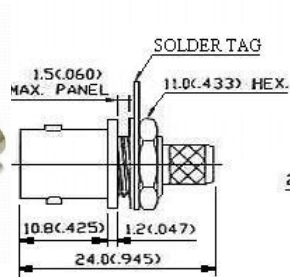
Finish: Gold plated center contact & nickel plated body

Insulation: Teflon

Brass coupling nut

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-1114-TGN	174, 188A, 316	2

Straight Bulkhead Jack Crimp (BNC)

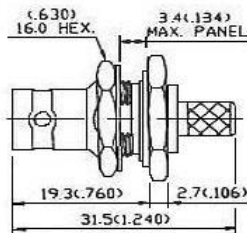
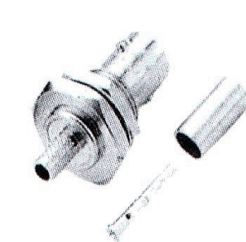


PART NO.	APPLICABLE CABLE RG/U
BNC-1205-TGN	174, 188A, 316

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Bulkhead Jack Crimp (BNC)



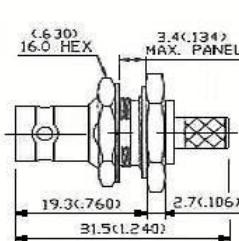
Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-1206-DGN	58, 58A, 141A	1
BNC-1207-DGN	59, 62A, 210	1

Straight Bulkhead Jack Crimp (BNC)

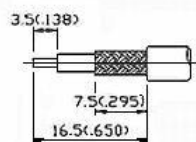
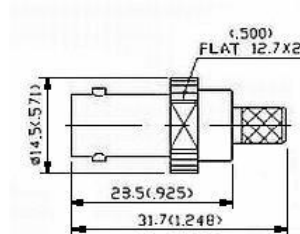
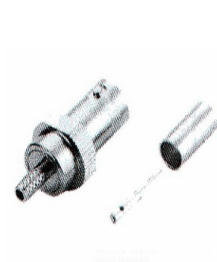


PART NO.	APPLICABLE CABLE RG/U
BNC-1208-TGN	174, 188A, 316

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Jack Crimp (BNC)



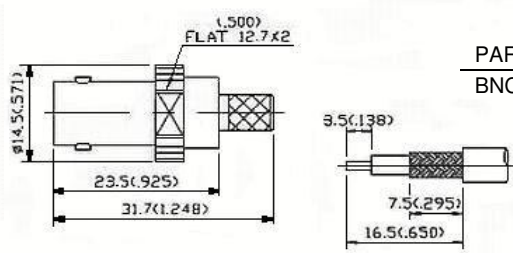
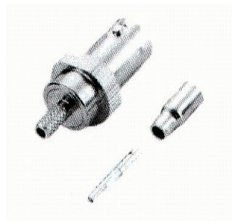
Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-1209-DGN	58, 58A, 141A	1
BNC-1210-DGN	59, 62A, 210	1

Straight Jack Crimp (BNC)

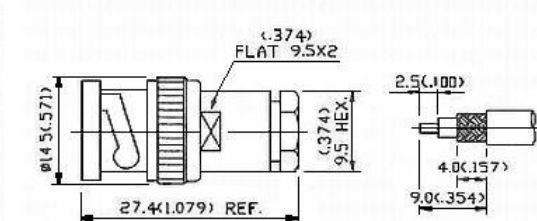


PART NO.	APPLICABLE CABLE RG/U
BNC-1211-TGN	174, 188A, 316

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Plug Clamp (BNC)



Description:
Flexible Cable-Crimp Attachment

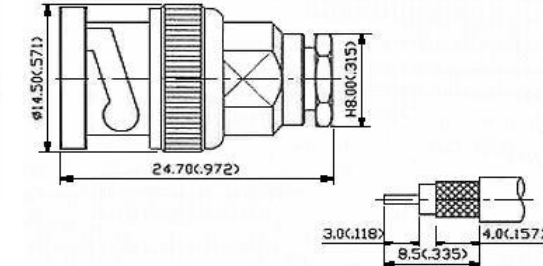
Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

Brass coupling nut

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-2101-DGN	58, 58A, 141A	1.2
BNC-2102-DGN	59, 62A, 210	1.2

Straight Plug Clamp (BNC)



Description:
Flexible Cable-Crimp Attachment

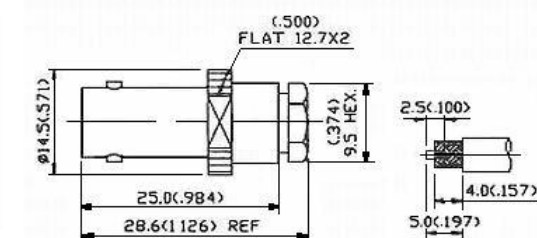
Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

Brass coupling nut

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-2103-TGN	58U, 55U, 141, 142, 223, 303	1.2
BNC-2104-TGN	174U, 188, 179, 316U	1.2

Straight Jack Clamp (BNC)



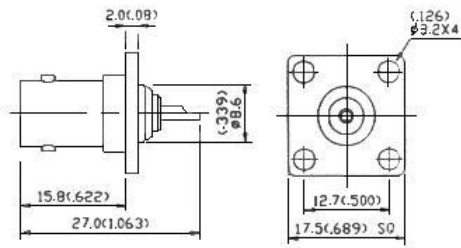
Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-2205-DGN	58, 58A, 141A	1
BNC-2206-DGN	59, 62A, 210	1

Square Flange Jack Receptacle (BNC)

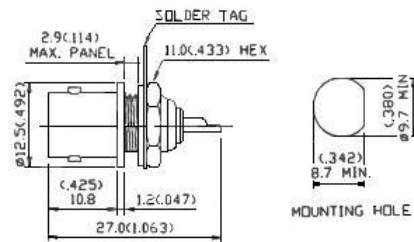


PART NO.
BNC-3201-TGN

Description:
Panel Mount Receptacles (Solder Pot Contact)

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Bulkhead Jack Receptacle (BNC)

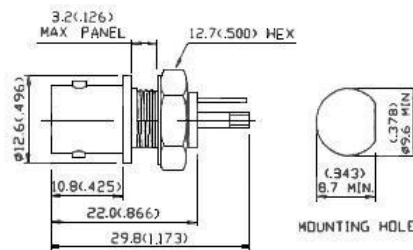
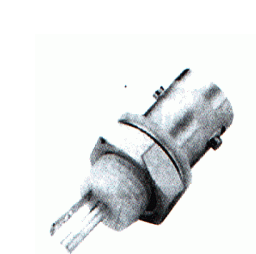


PART NO.
BNC-4101-DGN

Description:
Bulkhead Mount Receptacles (Solder Pot Contact)
50 Ohm (Brass Body)

Finish: Gold plated center contact & body
Insulation: Delrin

Isolated Bulkhead Jack Receptacle (BNC)

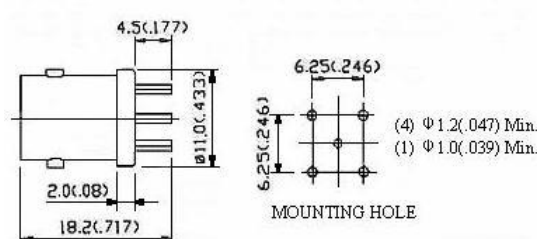
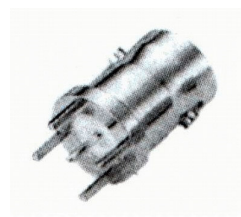


PART NO.
BNC-4202-ABSGN

Description:
Bulkhead Mount Receptacles (Solder Pot Contact)
50 Ohm

Finish: Gold plated center contact & body
Insulation: ABS

Straight PCB Mount Jack Receptacle (BNC)

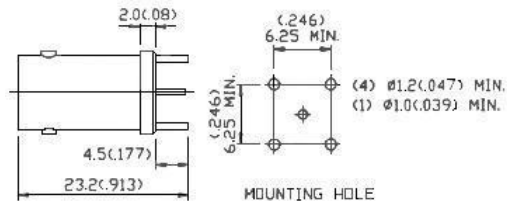
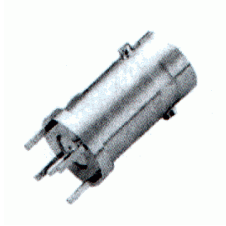


PART NO.
BNC-5201-TGN

Description:
Printed Circuit Board Receptacles
50 Ohm

Finish: Gold plated center contact & body
Insulation: Teflon

Straight PCB Mount Jack Receptacle (BNC)

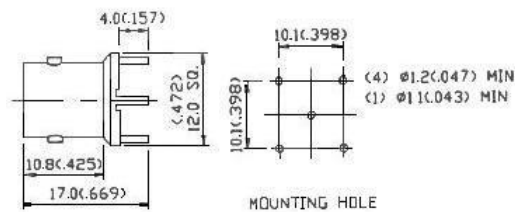
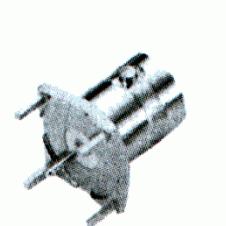


PART NO.
BNC-5202-DGN

Description:
Printed Circuit Board Receptacles
50 Ohm

Finish: Gold plated center contact & body
Insulation: Delrin

Straight PCB Mount Jack Receptacle (BNC)

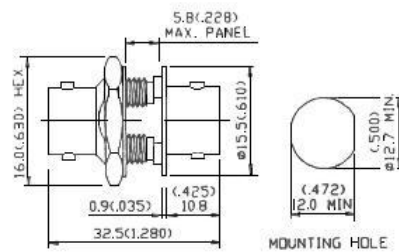


PART NO.
BNC-5203-TGN

Description:
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

Bulkhead Jack - Jack (BNC)

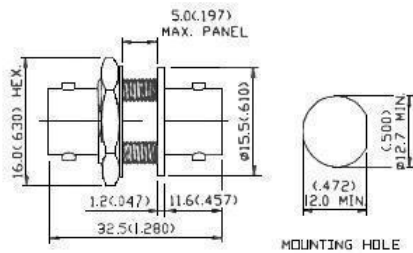


PART NO.
BNC-601-DGN

Description:
In series Adapters
50 Ohms

Finish: Gold plated center contact & body
Insulation: Delrin

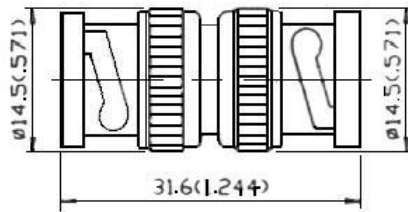
Isolated Bulkhead Jack - Jack (BNC)



PART NO.
BNC-602-DGN

Description:
In series Adapters
50 Ohms
Brass coupling nut

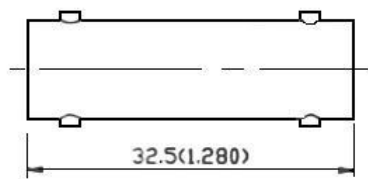
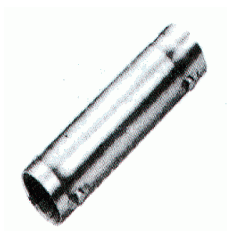
Finish: Gold plated center contact & body
Insulation: Delrin

Plug - Plug (BNC)

PART NO.
BNC-603-DGN

Description:
In series Adapters
50 Ohms
Brass coupling nut

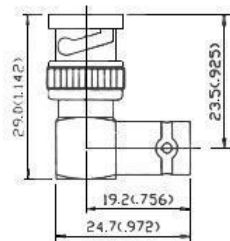
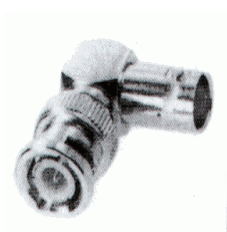
Finish: Gold plated center contact & body
Insulation: Delrin

Jack - Jack (BNC)

PART NO.
BNC-604-DGN

Description:
In series Adapters
Brass body 50 Ohm

Finish: Gold plated center contact & body
Insulation: Delrin

Right Angle Plug - Jack (BNC)

PART NO.
BNC-605-DGN

Description:
In series Adapters
Brass coupling nut

Finish: Gold plated center contact & body
Insulation: Delrin