

BNC Style Connector

BNC Series

DDK Ltd.

Frequency Range
DC to 2GHz

Characteristic Impedance
50 Ω

Lock Type
Bayonet

OUTLINE

50 ohm BNC bayonet RF connector are available in several configurations to support a variety of design alternatives. These BNC connectors are available in straight, right angle and panel mount configurations.



FEATURE

- BNC style 50 ohm RF connector
- 50 ohm impedance design
- Quick mate/demate with reliable bayonet coupling
- High reliability interconnect for numerous connect and disconnect cycles.
- BNC 50 ohm connector is intermateable with BNC75 (75 ohm) style connector.
- BNC is capable of mating with 75 ohm cable for frequencies less than 200MHz.
- Frequencies higher than 200MHz should use DDK's BNC75 series connector.

CONFORMING STANDARD

JIS-C-5412, MIL-PRF-39012

SPECIFICATIONS

Characteristic Impedance	50 Ω
Rated Voltage	500VAC(r.m.s.)
Dielectric Withstanding Voltage	1500V AC(r.m.s.) for 1 minute
Insulation Resistance	1000M Ω Mim. at 500V DC
Contact Resistance	3m Ω Max.
V.S.W.R.	1.3 max. at DC to 2GHz
Operating Temperature	-55 ~ +85°C

* The specifications are typical but may not apply to all connectors.
And if the cable is not 50 Ω , the specification will be changed.
Please check the specifications on each item with its drawing from us when you use.

MATERIAL/FINISH

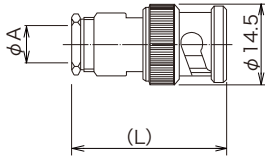


Item	Material / Finish
Shell (Body)	Copper Alloy / Ni or Ag Plating
Contact (Male)	Copper Alloy / Ag or Au Plating
Contact (Female)	Copper Alloy / Ag or Au Plating
Insulator	PTFE
Gasket	Silicon Rubber

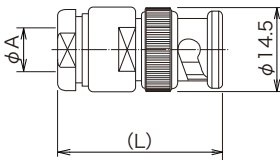
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▶ Straight Cable Plug

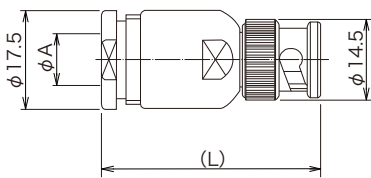
Clamp Type



Part Number	Applicable Cable	φ A	(L)	Finish	
				Outer Conductor	Center Conductor
BNC-SP-3D2V-DA1	3D-2V	6.1	28.5	Ni	Au
	3C-2V				
BNC-P-58U-CF	RG-55/U	5.4	27.0	Ag	Ag
	RG-58A/U				
	RG-58/U				
BNC-P-58U-Ni-CF	RG-55/U	5.4	27.0	Ni	Ag
	RG-58A/U				
	RG-58/U				



Part Number	Applicable Cable	φ A	(L)	Finish	
				Outer Conductor	Center Conductor
BNC-P-3W-CF	3D-2W	7.1	29.1	Ag	Ag
	3C-2W				
BNC-P-3W-Ni-1-CF	3D-2W	7.1	29.1	Ni	Ag
	3C-2W				

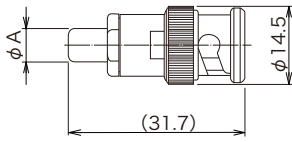


Part Number	Applicable Cable	φ A	(L)	Finish	
				Outer Conductor	Center Conductor
BNC-P-5-CF	5D-2V	8.6	37.0	Ag	Ag
	5C-2V				
BNC-P-5-Ni-CF	5D-2V	8.6	37.0	Ni	Ag
	5C-2V				
BNC-P-5NiCAu-CF	5D-2V	8.6	37.0	Ni	Au
	5C-2V				
BNC-P-5W-CF	5D-2W	9.2	37.0	Ag	Ag
	5C-2W				
BNC-P-5W-Ni-CF	5D-2W	9.2	37.0	Ni	Ag
	5C-2W				
BNC-P-5W-NiCAu-CF	5D-2W	9.2	37.0	Ni	Au
	5C-2W				

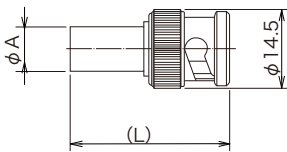
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▶ Straight Cable Plug

Crimp Type



Part Number	Applicable Cable	φ A	Finish		Crimp Tool
			Outer Conductor	Center Conductor	
BNC-P-1.5V-CR-CF	1.5D-2V	5.5	Ag	Ag	CRH-1100
	1.5C-2V				
BNC-P-1.5V-CR-Ni-CF	1.5D-2V	5.5	Ni	Ag	CRH-1100
	1.5C-2V				
BNC-P-1.5V-CR-NiCAu-CF	1.5D-2V	5.5	Ni	Au	CRH-1100
	1.5C-2V				
BNC-P-2.5V-CR-CF	2.5D-2V	5.5	Ag	Ag	CRH-1100
	2.5C-2V				
BNC-P-2.5V-CR-Ni-CF	2.5D-2V	5.5	Ni	Ag	CRH-1100
	2.5C-2V				
BNC-P-2.5V-CR-NiCAu-CF	2.5D-2V	5.5	Ni	Au	CRH-1100
	2.5C-2V				
BNC-P-179U-CR-CF	RG-179/U	5.5	Ag	Ag	CRH-1100
BNC-P-179U-CR-Ni-CF	RG-179/U	5.5	Ni	Ag	CRH-1100

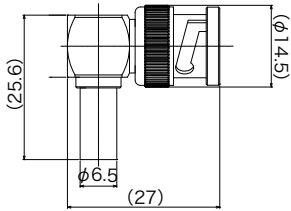


Part Number	Applicable Cable	φ A	(L)	Finish		Crimp Tool
				Outer Conductor	Center Conductor	
BNC-P-3C-CR1-CF	3C-2V	7.0	28.0	Ag	Ag	CRH-1102
BNC-P-3C-CR1-Ni-CF	3C-2V	7.0	28.0	Ni	Ag	CRH-1102

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▶ Right Angle Cable Plug

Crimp Type



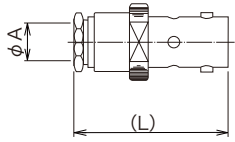
Part Number	Applicable Cable	Finish	
		Outer Conductor	Center Conductor
BNC-LP-58U-CR1-1-DA1	RG-58U	Ni	Au
	RG-58A/U		
	RG-55/U		

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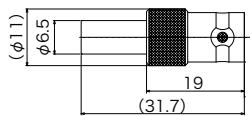
<http://www.ddknet.co.jp>

▶ Straight Cable Jack

Clamp Type



Part Number	Applicable Cable	φ A	(L)	Finish	
				Outer Conductor	Center Conductor
BNC-J-3-CF	3D-2V	6.4	28.5	Ag	Ag
	3C-2V				
BNC-J-3-Ni-CF	3D-2V	6.4	28.5	Ni	Ag
	3C-2V				
BNC-J-58U-CF	RG-55/U	5.4	28.6	Ag	Ag
	RG-58A/U				
	RG-58/U				
BNC-J-58U-Ni-CF	RG-55/U	5.4	28.6	Ni	Ag
	RG-58A/U				
	RG-58/U				

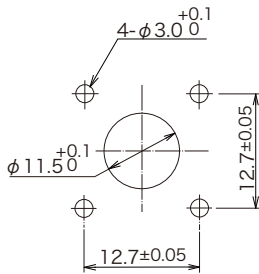
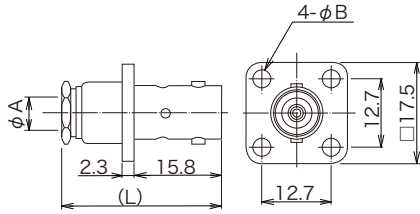


Part Number	Applicable Cable	Finish	
		Outer Conductor	Center Conductor
BNC-SJ-58U-CR1-DA1	RG-58U	Ni	Au
	RG-58A/U		
	RG-55/U		

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▶ Straight Panel Cable Jack

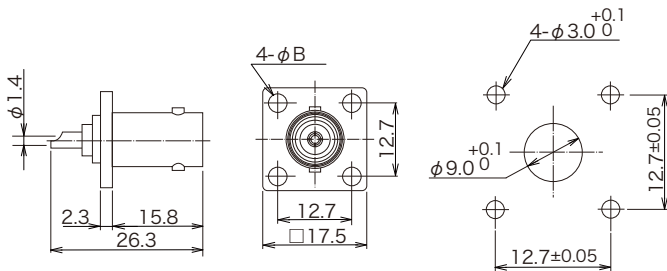
Clamp Type



Panel Mounting Dimensions

Part Number	Applicable Cable	φ A	φ B	(L)	Finish	
					Outer Conductor	Center Conductor
BNC-PJ-3-CF	3D-2V	6.4	3.0	28.5	Ag	Ag
	3C-2V					
BNC-PJ-3-Ni-CF	3D-2V	6.4	3.0	28.5	Ni	Ag
	3C-2V					
BNC-PJ-58U-CF	RG-55/U	5.4	3.0	28.6	Ag	Ag
	RG-58/U					
BNC-PJ-58U-Ni-CF	RG-55/U	5.4	3.0	28.6	Ni	Ag
	RG-58A/U					
	RG-58/U					
BNC-PJ-58U-NiCAu-CF	RG-55/U	5.4	3.0	28.6	Ni	Au
	RG-58A/U					
	RG-58/U					

▶ Receptacle Jack

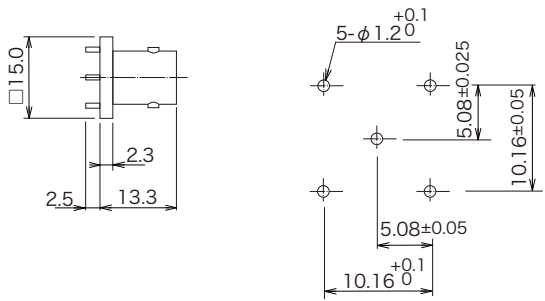


Panel Mounting Dimensions

Part Number	φ B	Finish	
		Outer Conductor	Center Conductor
BNC-R-CF	3.1	Ag	Ag
BNC-R-Ni-CF	3.1	Ni	Ag

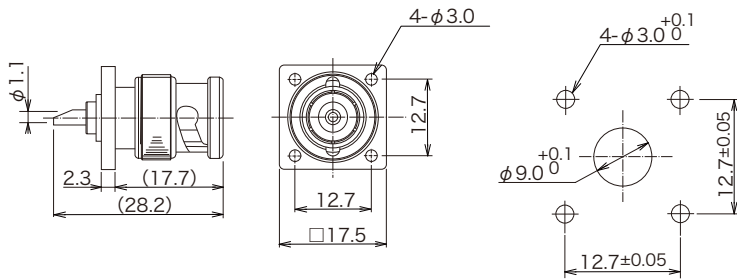
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▶ Receptacle Jack



PCB Mounting Dimensions

Part Number	Finish		Note
	Outer Conductor	Center Conductor	
BNC-R-PC-4-Ag-CF	Ni	Ag	Board lock is Ag plating
BNC-R-PC-4-D1-CF	Ni	Au	Board lock is Ag plating.

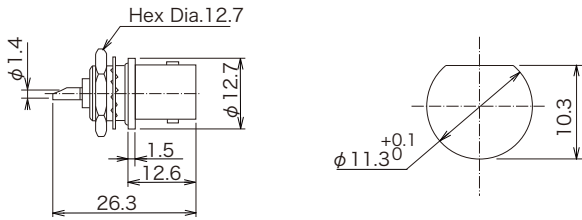


Panel Mounting Dimensions

Part Number	Finish	
	Outer Conductor	Center Conductor
BNC-PR-CF	Ag	Ag
BNC-PR-Ni-CF	Ni	Ag

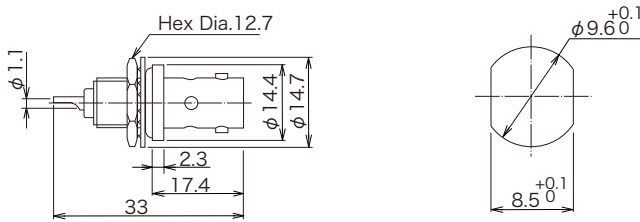
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▶ Straight Bulkhead Cable Jack



Part Number	Finish	
	Outer Conductor	Center Conductor
BNC-RB2-CF	Ag	Ag
BNC-RB2-Ni-CF	Ni	Ag
BNC-RB2-NiCAu-CF	Ni	Au

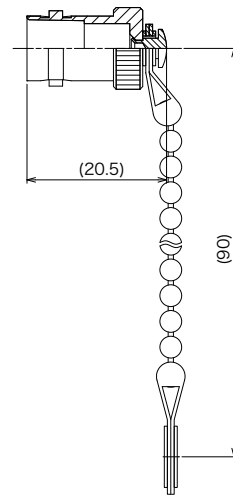
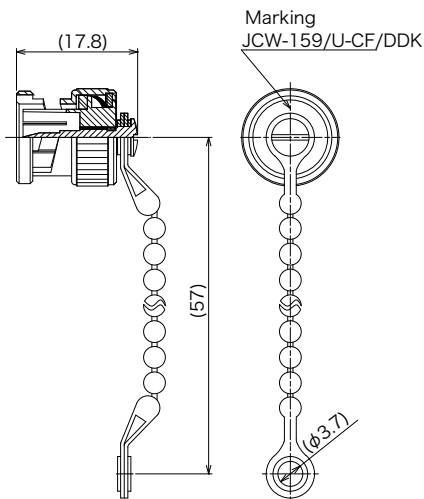
Panel Thickness : 1.2 ~ 3.5 Panel Mounting Dimensions



Part Number	Finish		Note
	Outer Conductor	Center Conductor	
BNC-RB-CF	Ag	Ag	with Frange O-ring
BNC-RB-Ni-CF	Ni	Ag	with Frange O-ring

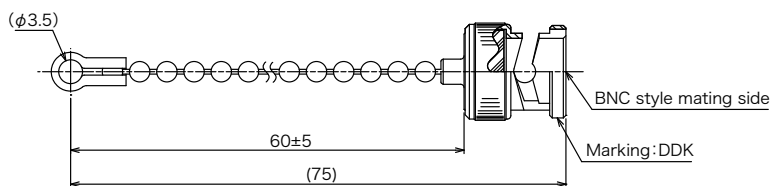
Panel Thickness: 2.2 ~ 7.0 Panel Mounting Dimensions

▶ Dust Cap



Part Number	Finish	
BNC-CS-CF	Ag	Short Cap
BNC-CS-Ni-CF	Ni	Short Cap

Part Number	Finish
BNC-JC-CF	Ag
BNC-JC-Ni-CF	Ni



Part Number	Finish
BNC-RC-3	Ni
BNC-RC-3-D1	Ag

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