

BNC series are the most widely used bayonet lock coaxial connectors with 50Ω and 75Ω impedances.

The 50 series can be used up to 4GHz and 75Ω series can be used up to 1 GHz.

Clamp and crimp type cables are available and every 75Ω and 50Ω cables are compatible.

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Series BNC-50Ω



Microminiature Coaxial Connector

Technical Data

Material Data

Cable Connectors

Receptacles with Solder End

PCB Connectors

Adaptor within-Series

Protective Cap

Microminiature Coaxial Connector

Description

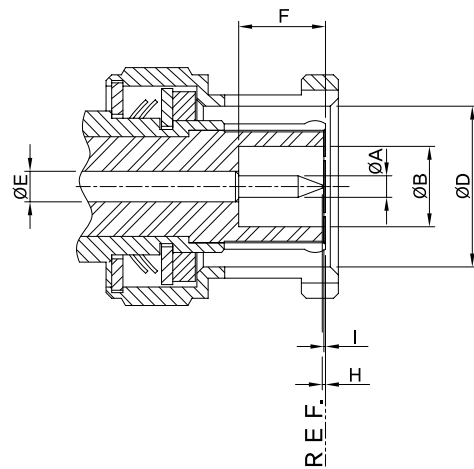
BNC series are the most widely used bayonet lock coaxial connectors with 50Ω and 75Ω impedances. The 50 series can be used up to 4GHz and 75Ω series can be used up to 1 GHz. Clamp and crimp type cables are available and every 75Ω and 50Ω cables are compatible.

Contents

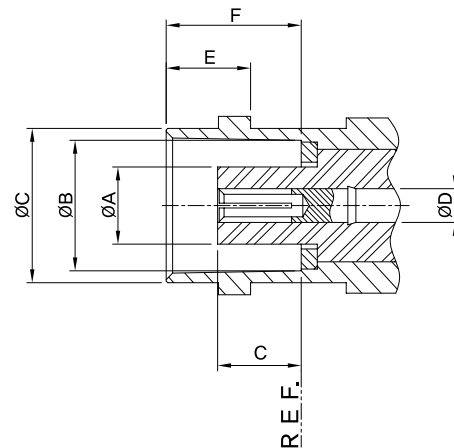
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Interface Dimensions

Plug (Male)



Jack (Female)



Interface Dimensions in mm/inch

	Pulg (male)		Jack (Female)	
	Min.	Max.	Min.	Max.
A	1.32/0.052	1.37/0.054	-	4.72/0.186
B	4.83/0.190	-	8.10/0.319	8.15/0.321
C	-	-	9.60/0.378	9.68/0.381
D	9.78/0.385	9.91/0.390	2.06/0.081	2.21/0.087
E	2.06/0.081	2.21/0.087	5.18/0.204	5.28/0.208
F	5.28/0.208	5.79/0.228	8.31/0.327	8.51/0.335
G	-	-	4.78/0.188	5.28/0.208
H	0.08/0.003	-	-	-
I	0.15/0.006	0.30/0.012	-	-

Technical Data

Requirement

ELECTRICAL DATA

Impedance	50Ω
Frequency range	DC ~ 4GHz
RF leakage (between 2 ~ 3 GHz)	≥ 55 dB
Dielectric withstanding voltage (at sea level)	1.5 kV rms, 50 Hz
Working voltage (at sea level)	≤ 500 V rms, 50 Hz
Insulation resistance	≥ 5 · 10 ⁸ MΩ
Contact resistance	
- Center contacts	≤ 1.5 mΩ
- Outer contacts	≤ 1.0 mΩ

Specification

TEST REQUIREMENTS

MECHANICAL DATA

Coupling nut torque	7 N ~ 28 Ncm / 0.6 in. lbs ~ 2.5 in. lbs
Coupling nut retention force	≥ 450 N / 101.2 lbs
Contact captivation	≥ 27 N / 6.1 lbs
Durability (matings)	≥ 500

TEST REQUIREMENTS

Material Data

Connector Part	Material		Plating
	Male	Female	
PIN	Brass	Beryllium-Copper	Gold
INSULATOR	PTFE	PTFE	-
BODIES	Brass	Brass	Gold or Nickel
SPRING RING	-	-	Nickel
GASKET	SILCONE-RUB		-
CRIMP FERRULES	Brass	Brass	Gold or Nickel

Cable Connectors

● Straight Cable Plug(male)

For Semi-rigid cable
Cable entry Soldered
Centre Contact Soldered

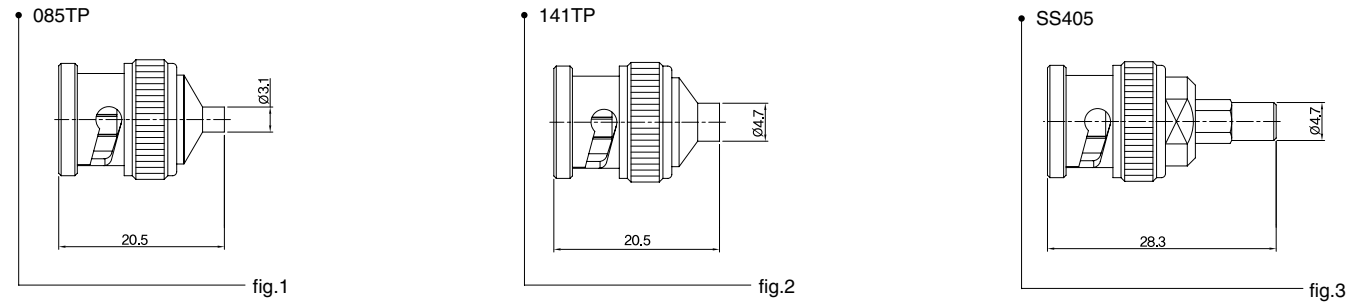


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Coupling		
1	BNC50-PS-085	K325-004-000	CN2811S03-001-1/1	S03 085TP	Gold	Nickel	Nickel		
2	BNC50-PS-141	K325-003-000	CN2811S04-001-1/1	S04 141TP	Gold	Gold	Nickel		
3	BNC50-PSS-SS405	K325-009-000	CN2811S07-001-1/1	SS405	Gold	Gold	Nickel		

For flexible cable (short and long type)
Cable entry clamp
Centre contact soldered

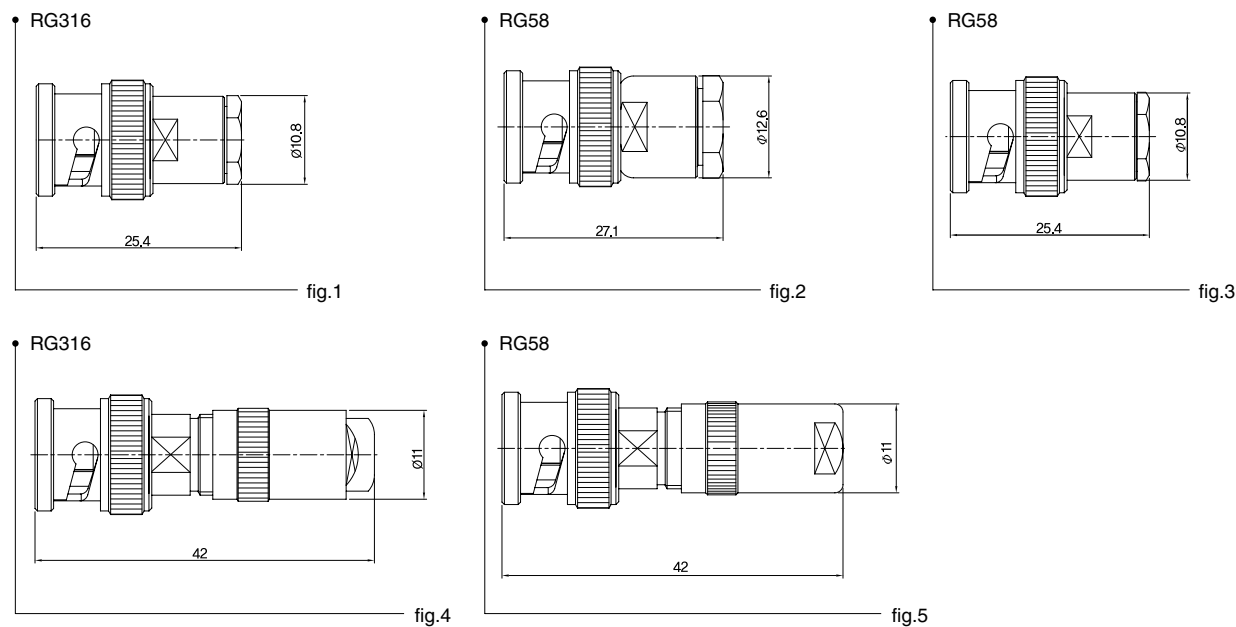


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Coupling		
1	BNC50-P3-316	K325-011-000	CN2811X02-002-1/1	X02 RG316	Gold	Nickel	Nickel		
2	BNC50-3-58	K325-014-000	CN2811X08-004-1/1	X08 RG58	Gold	Nickel	Nickel		
3	BNC50-P3-58	K325-013-000	CN2811X08-003-1/1	X08 RG58	Gold	Nickel	Nickel		Insert
4	BNC50-P5-316	K325-022-000	CN2811X08-005-1/1	X02 RG316	Gold	Nickel	Nickel		
5	BNC50-P5-58	K325-023-000	CN2811X08-006-1/1	X08 RG58	Gold	Nickel	Nickel		

For flexible cable
Cable entry crimp

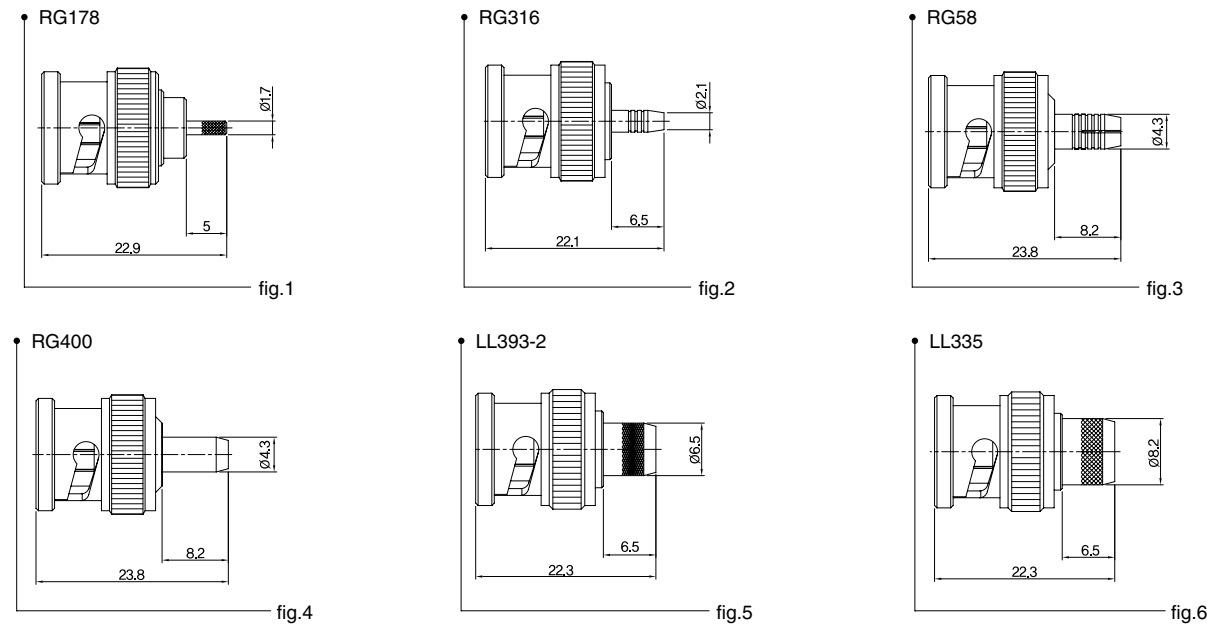


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Coupling		
1	BNC50-PC-178	K325-001-178	CN2811X01-001-1/1	X01 RG178	Gold	Nickel	Nickel		
2	BNC50-PC316	K325-001-000	CN2811X02-001-1/1	X02 RG316	Gold	Nickel	Nickel		
3	BNC50-PC-58	K325-002-000	CN2811X08-001-1/1	X08 RG58	Gold	Nickel	Nickel		
4	BNC50-PC-400	K325-002-001	CN2811X08-002-1/1	X08 RG400	Gold	Nickel	Nickel		
5	BNC50-PC-LL393-2	K325-024-000	CN2811X23-001-1/1	X23 LL393-2	Gold	Nickel	Nickel		
6	BNC50-PC-LL335	K325-025-000	CN2811X24-001-1/1	X24 LL335	Gold	Nickel	Nickel		

● Right Angle Cable Plugs (male)

For semi-rigid cable
Cable entry soldered
Centre contact soldered

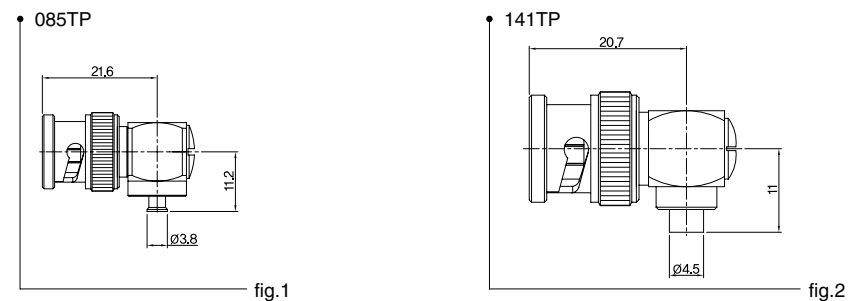


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Coupling		
1	BNC50-LPS-085	K325-120-000	CN2831S03-001-1/1	S03 085TP	Gold	Nickel	Nickel		
2	BNC50-LPS-141	K325-118-000	CN2831S04-001-1/1	S04 141TP	Gold	Nickel	Nickel		



For flexible cable
Centre contact soldered

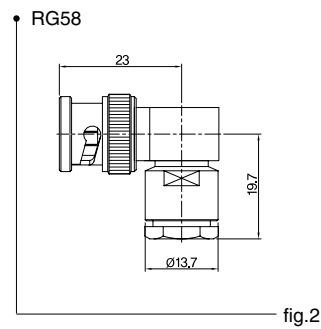
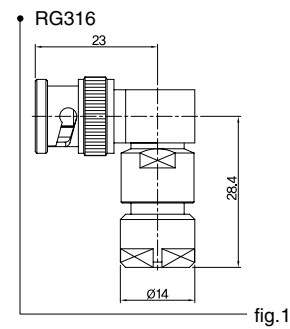


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Coupling		
1	BNC50-LP3-316	K325-112-000	CN2831X02-002-1/1	X02 RG316	Gold	Nickel	Nickel		
2	BNC50-LP3-58	K325-117-000	CN2831X08-002-1/1	X08 RG58	Gold	Nickel	Nickel		

For flexible cable
Cable entry crimp
Centre contact soldered

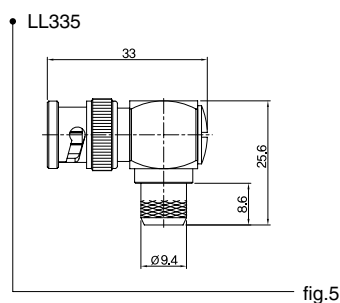
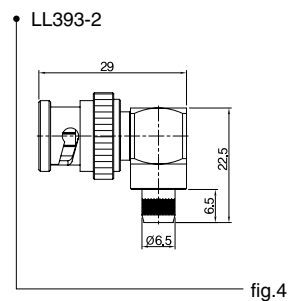
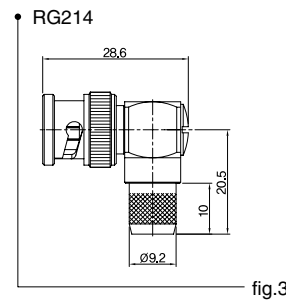
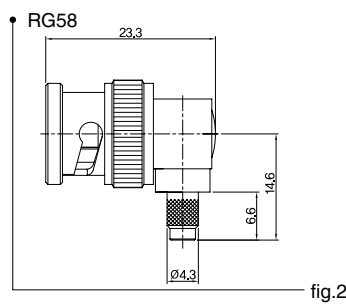
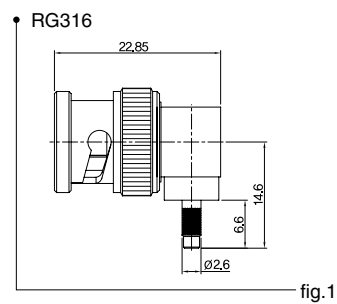


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Coupling		
1	BNC50-LPC-316	K325-110-000	CN2831X02-001-1/1	X02 RG316	Gold	Nickel	Nickel		
2	BNC50-LPC-58	K325-111-000	CN2831X08-001-1/1	X08 RG58	Gold	Nickel	Nickel		
3	BNC50-LPC-214	K325-119-000	CN2831X15-001-1/1	X15 RG214	Gold	Nickel	Nickel		
4	BNC50-LPC-LL393-2	K325-121-000	CN2831X23-001-1/1	X23 LL393-2	Gold	Nickel	Nickel		
5	BNC50-LPC-LL335	K325-122-000	CN2831X24-001-1/1	X24 LL335	Gold	Nickel	Nickel		

● Straight Cable Jacks (female)

For flexible cables
Cable entry clamp

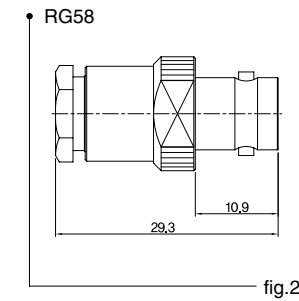
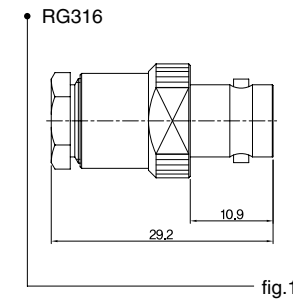


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Back Nut		
1	BNC50-J3-316	K325-227-000	CN2812X02-002-1/1	X02 RG316	Gold	Nickel	Nickel		
2	BNC50-J3-58	K325-228-000	CN2812X08-002-1/1	X08 RG58	Gold	Nickel	Nickel		

For flexible cables
Cable entry crimp

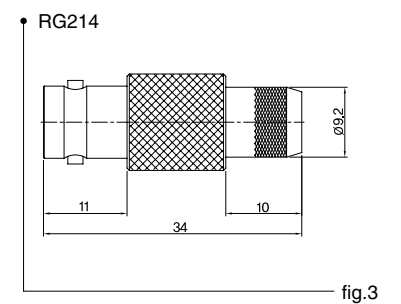
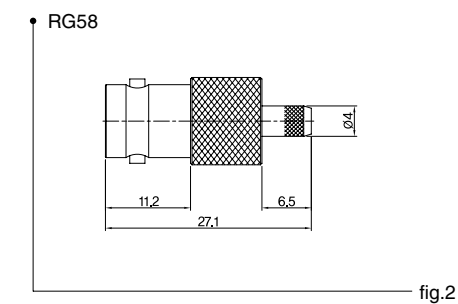
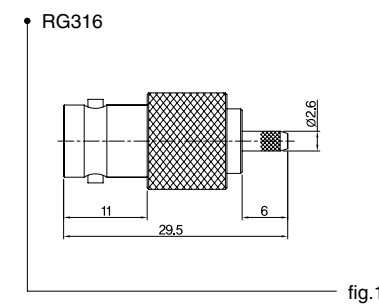


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Coupling		
1	BNC50-JC-316	K325-223-000	CN2812X02-001-1/1	X02 RG316	Gold	Nickel	Nickel		
2	BNC50-JC-58	K325-222-000	CN2812X08-001-1/1	X08 RG58	Gold	Nickel	Nickel		
3	BNC50-JC-214	K325-212-000	CN2812X15-001-1/1	X05 RG214	Gold	Nickel	Nickel		

● Straight Bulkhead Cable Jacks (female)

For semi-rigid cable
Cable entry soldered
With panel seal

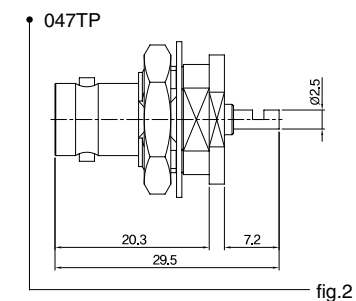
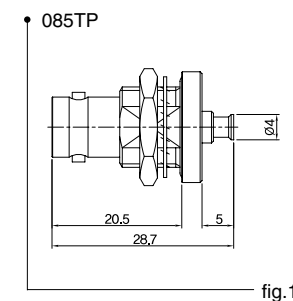


Fig	Type	Code		Cable Goup (example)	Plating		Mounting Hole	AS-In	Note
		Old Code	New Code		Pin	Body			
1	BNC50-BJ-S-085	K325-330-000	CN2822S03-001-1/1	S03 085TP	Gold	Nickel	ML40		
2	BNC50-BJ-S-047	K325-346-000	CN2822S02-001-1/1	S02 047TP	Gold	Nickel	ML41		



For flexible cable
Cable entry clamp
With panel seal

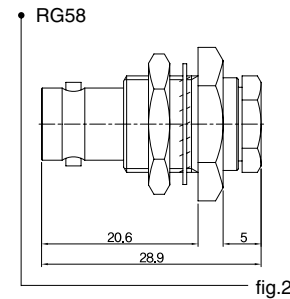
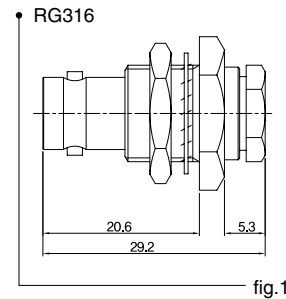


Fig	Type	Code		Cable Goup (example)	Plating			Mounting Hole	AS-In	Note
		Old Code	New Code		Pin	Body	Back Nut			
1	BNC50-BJ-3-316	K325-342-000	CN2822X02-001-1/1	X02 RG316	Gold	Nickel	Nickel	ML42		
2	BNC50-BJ-3-58	K325-343-000	CN2822X08-001-1/1	X08 RG58	Gold	Nickel	Nickel			

For flexible cable
Cable entry crimp
With panel seal

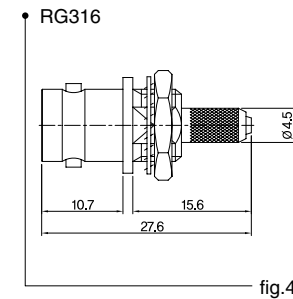
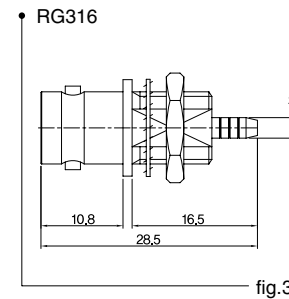
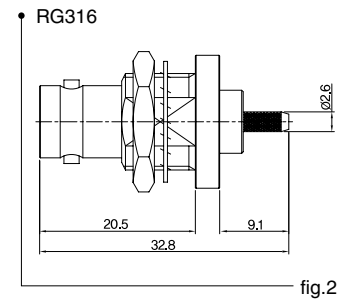
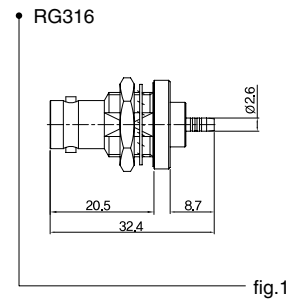


Fig	Type	Code		Cable Goup (example)	Plating		Mounting Hole	AS-In	Note
		Old Code	New Code		Pin	Body			
1	BNC50-BJ-C-316	K325-345-000	CN2822X02-002-1/1	X02 RG316	Gold	Nickel	ML43		
2	BNC50-BJ-C-179	K325-350-000	CN2822X02-003-1/1	X02 RG316	Gold	Nickel	ML40		
3	BNC50-J-BC-316	K325-341-000	CN2826X02-001-1/1	X02 RG316	Gold	Nickel	ML44		
4	BNC50-J-BC-316	K325-341-002	CN2826X02-002-1/1	X02 RG316	Gold	Nickel			

● Straight Panel Cable Jack (female)

For flexible cable
Cable entry clamp
Centre contact soldered

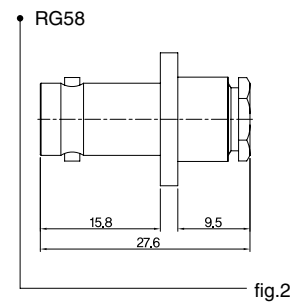
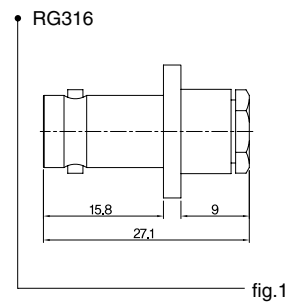


Fig	Type	Code		Cable Goup (example)	Plating		Mounting Hole	AS-In	Note
		Old Code	New Code		Pin	Body			
1	BNC50-J-H4-3-316	K325-232-000	CN2844X02-001-1/1	X02 RG316	Gold	Nickel	ML45		
2	BNC50-J-H4-3-58	K325-233-000	CN2844X08-001-1/1	X08 RG58	Gold	Nickel			

For flexible cable
Cable entry crimp
Centre contact soldered

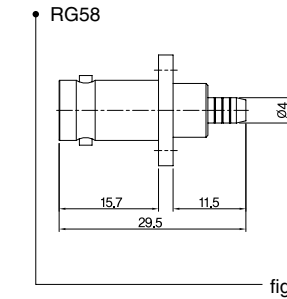
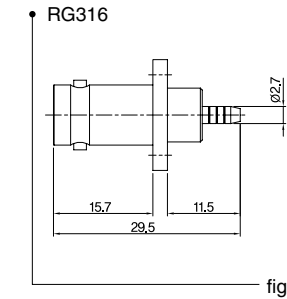


Fig	Type	Code		Cable Goup (example)	Plating		Mounting Hole	AS-In	Note
		Old Code	New Code		Pin	Body			
1	BNC50-J-H4-C-316	K325-236-000	CN2844X02-002-1/1	X02 RG316	Gold	Nickel	ML46		
2	BNC50-J-H4-C-58	K325-237-000	CN2844X08-002-1/1	X08 RG58	Gold	Nickel			

Receptacles with Solder End

● Receptacle Plugs(male) and Jack(female)

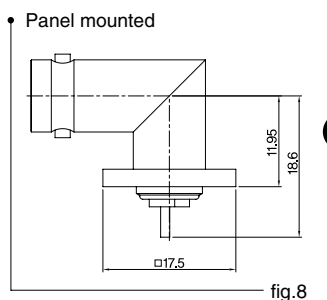
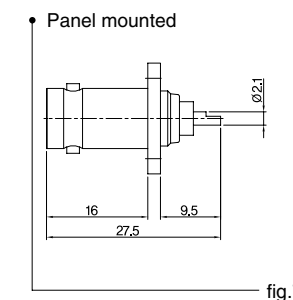
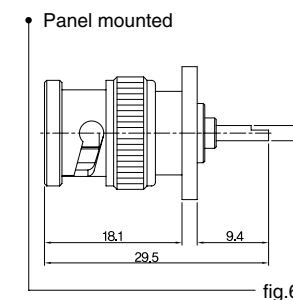
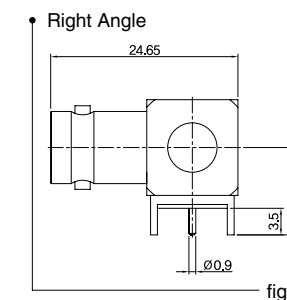
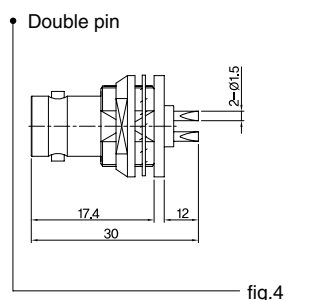
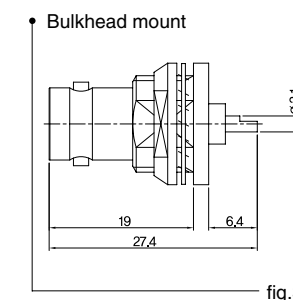
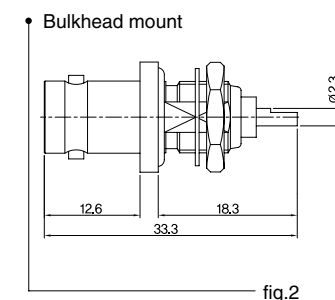
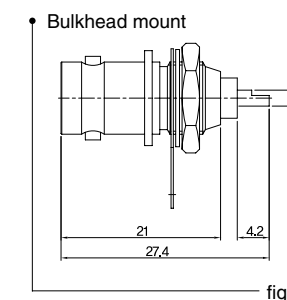


Fig	Type	Code		Plating			Mounting Hole	AS-In	Note
		Old Code	New Code	Pin	Body	Coupling Nut			
1	BNC50-J-BR	K325-560-000	CN2826000-001-1/1	Gold	Nickel	-	ML47		
2	BNC50-J-BR	K325-561-000	CN2826000-002-1/1	Gold	Nickel	-	ML48		
3	BNC50-BJ-R	K325-563-003	CN2822000-002-1/1	Gold	Nickel	-	ML40		
4	BNC50-BJ-29	K325-563-002	CN2822000-001-1/1	Gold	Nickel	-			
5	BNC50-LJ-BR	K325-671-000	CN2834000-001-1/1	Gold	Nickel	-	ML49		
6	BNC50-P-H4-R	K325-452-000	CN2843000-001-1/1	Gold	Nickel	Nickel	ML50		
7	BNC50-J-H4-R	K325-454-000	CN2844000-001-1/1	Gold	Nickel	-	ML46		
8	BNC50-LJ-H4-R	K325-670-000	CN2838000-001-1/1	Gold	Nickel	-			

PCB Connectors

● Straight PCB Jacks (female)

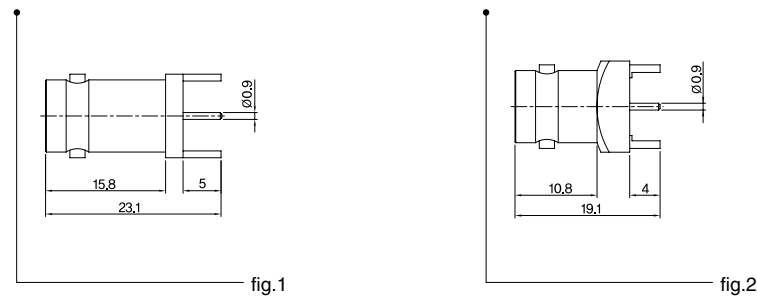


Fig	Type	Code		Plating		Mounting Hole	AS-In	Note
		Old Code	New Code	Pin	Body			
1	BNC50-J-4R-R	K325-455-000	CN2851000-001-1/1	Gold	Nickel	ML51		
2	BNC50-J-4R-R	K325-459-000	CN2851000-002-1/1	Gold	Nickel	ML52		

● Right Abgle PCB Jacks (female)

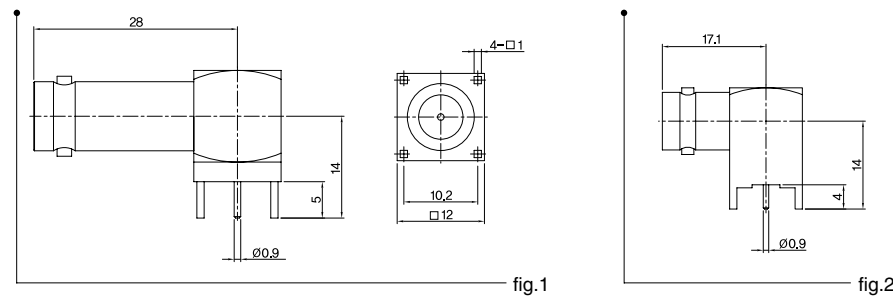
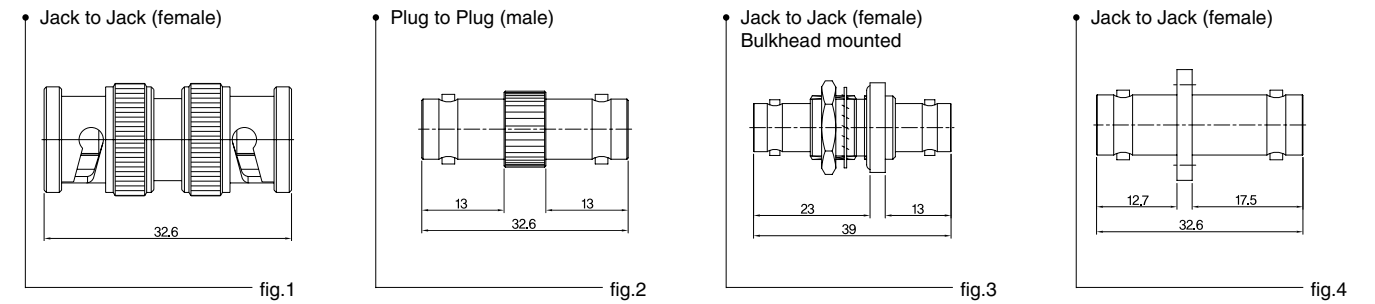


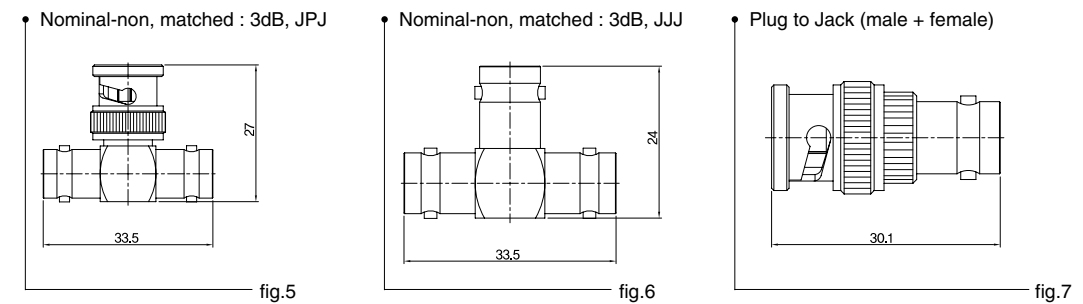
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		Old Code	New Code	Pin	Body			
1	BNC50-LJ-4R-R	K325-672-001	CN2853000-001-1/1	Gold	Nickel	ML49		
2	BNC50-LJ-4R-R	K325-674-000	CN2853000-002-1/1	Gold	Nickel	ML53		

Adaptor within-Series

● Straight Adaptors



● T-Adaptors



● Right Angle Adaptor

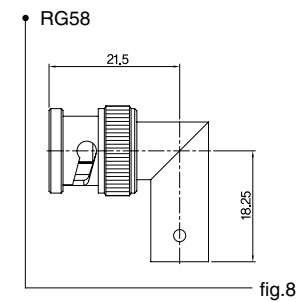


Fig	Type	Code		V.S.W.R	Plating			Mounting Hole	AS-In	Note
		Old Code	New Code		Body	Pipe	Coupling			
1	BNC50-A-PP	K325-780-000	AD2812-001-1/1	DC-4GHz , ≤ 1.06	Gold	Nickel	Nickel	-		
2	BNC50-A-JJ	K325-781-000	AD2811-001-1/1		Gold	Nickel	-	-		
3	BNC50-BA-JJ	K325-783-000	AD2822-001-1/1	DC-4GHz ≤ 1.2 DC-1.5GHz ≤ 1.1	Gold	Nickel	-	ML42		
4	BNC50-PA-JJ	K325-782-000	AD2846-001-1/1	DC-4GHz , ≤ 1.2	Gold	Gold	-	ML54		
5	BNC50-TA-JPJ	K325-786-000	AD2852-001-1/1		Gold	Nickel	Nickel	-		
6	BNC50-TA-JJJ	K325-788-000	AD2851-001-1/1		Gold	Nickel	-	-		
7	BNC50-A-JP	K325-702-000	AD2813-001-1/1	DC-4GHz , ≤ 1.2	Gold	Nickel	Nickel	-		
8	BNC50-LA-JP	K325-785-000	AD2833-001-1/1		Gold	Nickel	Nickel	-		



Protective Cap

● Protective Cap

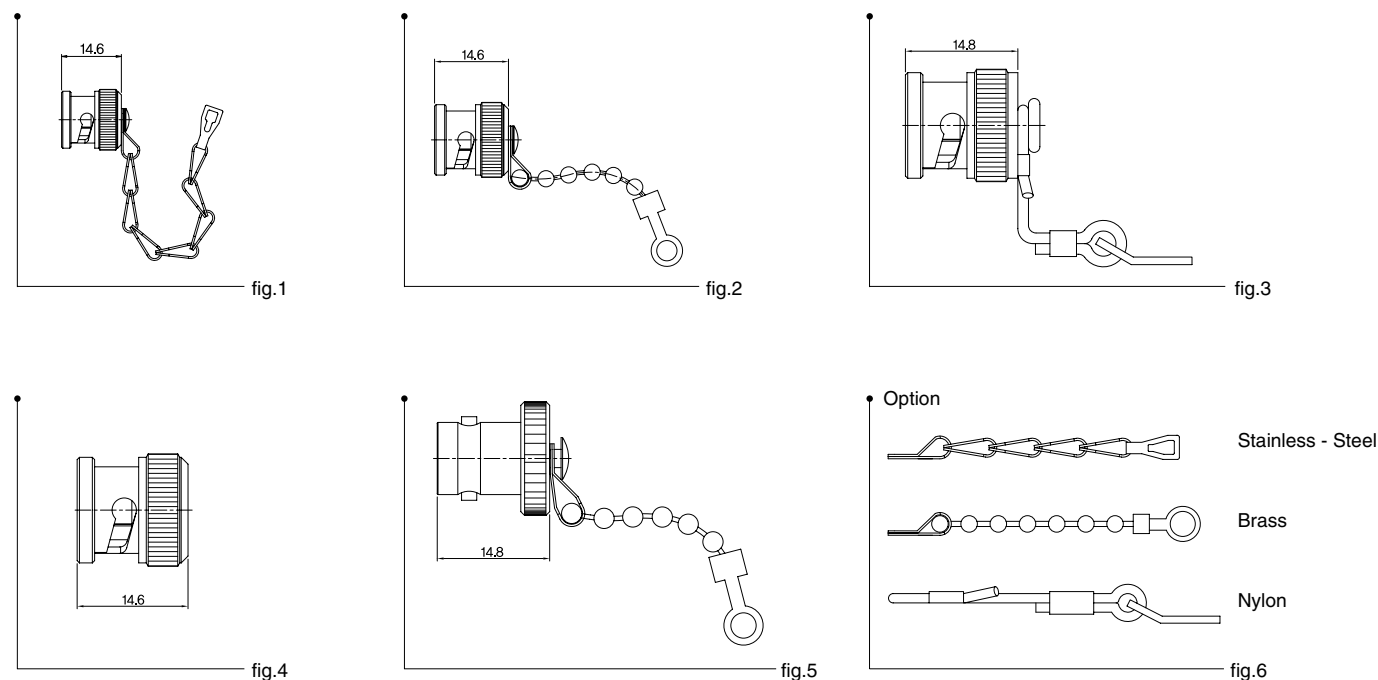


Fig	Type	Code		Plating		Note
		Old Code	New Code	Body	Coupling	
1	BNC50-P-CAP	K325-801-000	CN2880-001-1/1	-	Nickel	
2	BNC50-P-DUST CAP	K325-803-000	CN2880-002-1/1	-	Nickel	
3	BNC50-P-DUST CAP	K325-804-000	CN2880-003-1/1	-	Khaki	
4	BNC50-P-CAP	K325-801-001	CN2881-001-1/1	-	Nickel	
5	BNC50-J-DUST CAP	K325-802-000	CN2882-001-1/1	Nickel	-	

● Terminations

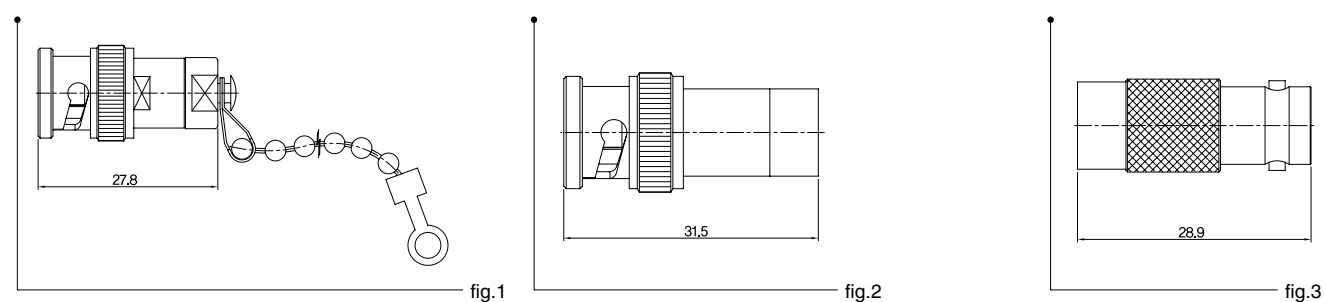


Fig	Type	Code		V.S.W.R	Plating			As-In	Note
		Old Code	New Code		Pin	Body	Coupling		
1	BNC50-P-TERM	K325-910-000	CN2892-001-1/1	300MHz ≤ 1.05	Gold	Nickel	Nickel		
2	BNC50-P-TERM	K325-910-001	CN2891-001-1/1	1GHz ≤ 1.15	Gold	Nickel	Nickel		
3	BNC50-J-TERM	K325-940-000	CN2894-001-1/1	1GHz ≤ 1.15	Gold	Nickel	-		

