

KJ-COMTECH N connectors are available in both 75Ω and 50Ω impedance.

The highest possible frequency is 18GHz according to the connector type.

Screw-type coupling mechanisms guarantee firm and reliable connectors. In addition, clamp, crimp and semi-rigid types are available.

Series N-50Ω



Microminiature Coaxial Connector

Technical Data

Material Data

Cable Connectors

Receptacles with Solder End

Adaptor within-Series

Protective Cap

Terminations and DC/Block Termination

Attenuators

Helix Coaxial Cable Connectors

Microminiature Coaxial Connector

Description

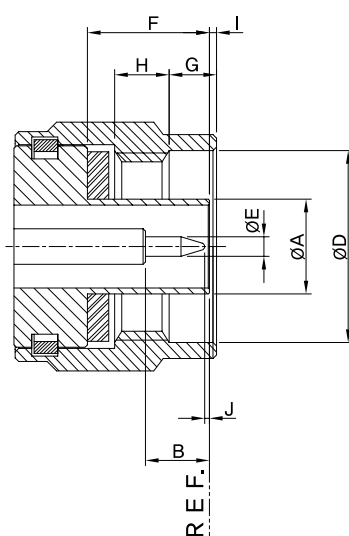
KJ-COMTECH N connectors are available in both 75Ω and 50Ω impedance. The highest possible frequency is 18GHz according to the connector type. Screw-type coupling mechanisms guarantee firm and reliable connectors. In addition, clamp, crimp and semi-rigid types are available.

Contents

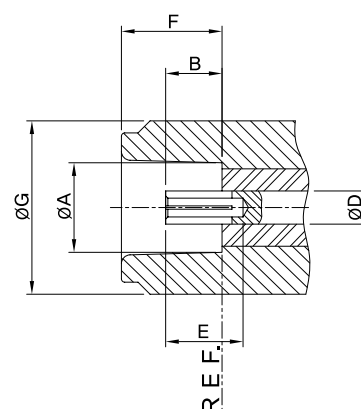
Microminiature Coaxial Connector	306
Technical Data	307
Material Data	307
Cable Connectors	308
Receptacles with Solder End	316
Adaptor within-Series	317
Protective Cap	318
Terminations and DC/Block Termination	318
Attenuators	319
Heliac Coaxial Cable Connectors	319

Interface Dimensions

Plug (Male)



Jack (Female)



Interface Dimensions in mm/inch

	Plug (male)		Jack (Female)	
	Min.	Max.	Min.	Max.
A	-	8.38 / 0.330	8.03 / 0.316	8.13 / 0.320
B	5.40 / 0.213	-	4.75 / 0.187	5.26 / 0.207
C	-	-	-	-
D	16.00 / 0.630	-	3.03 / 0.119	3.05 / 0.120
E	1.65 / 0.065	1.66 / 0.065	5.33 / 0.210	-
F	10.11 / 0.398	10.46 / 0.412	9.04 / 0.356	9.19 / 0.362
G	4.01 / 0.158	4.27 / 0.168	13.50 / 0.531	-
H	4.50 / 0.177	-	-	-
I	0.41 / 0.016	1.52 / 0.060	-	-
J	0.08 / 0.003	-	-	-

Technical Data

Requirement

ELECTRICAL DATA

Impedance	50Ω
Frequency range	DC ~ 11GHz
RF leakage (between 2 ÷ 3 GHz)	≥ 90 dB
Dielectric withstanding voltage (at sea level)	2.5 kV rms, 50 Hz
Working voltage (at sea level)	≤ 1.0 kV rms, 50 Hz
Insulation resistance	≥ 5 · 10 ⁹ MΩ
Contact resistance	
- Center contacts	≤ 1.0 mΩ
- Outer contacts	≤ 1.0 mΩ

Specification

TEST REQUIREMENTS

MECHANICAL DATA

Coupling nut torque	
- recommended	0.68 Nm~1.13 Nm/6.0 in. lbs~0.0 in. lbs
- proof torque	1.70 Nm / 15.0 in. lbs
Coupling nut retention force	≥ 450 N / 101.2 lbs
Contact captivation	≥ 28 N / 6.3 lbs
Durability (matings)	≥ 500

TEST REQUIREMENTS

Material Data

Connector Part	Material		Plating
	Male	Female	
PIN	Brass	Beryllium-Copper	Gold or Silver
INSULATOR	PTFE	PTFE	-
BODIES	Brass	Brass	Nickel or Silver or Suco
SPRING WASHER	Stainless-Steel	-	-
GASKET	Silicone-Rubber	-	-
INSERT	Brass	Brass	Nickel or Silver
BACK NUT	Brass	Brass	Nickel
CRIMP FERRULES	Brass	Brass	Nickel

Cable Connectors

● Straight Cable Plugs

For semi-rigid cables
Cable entry soldered

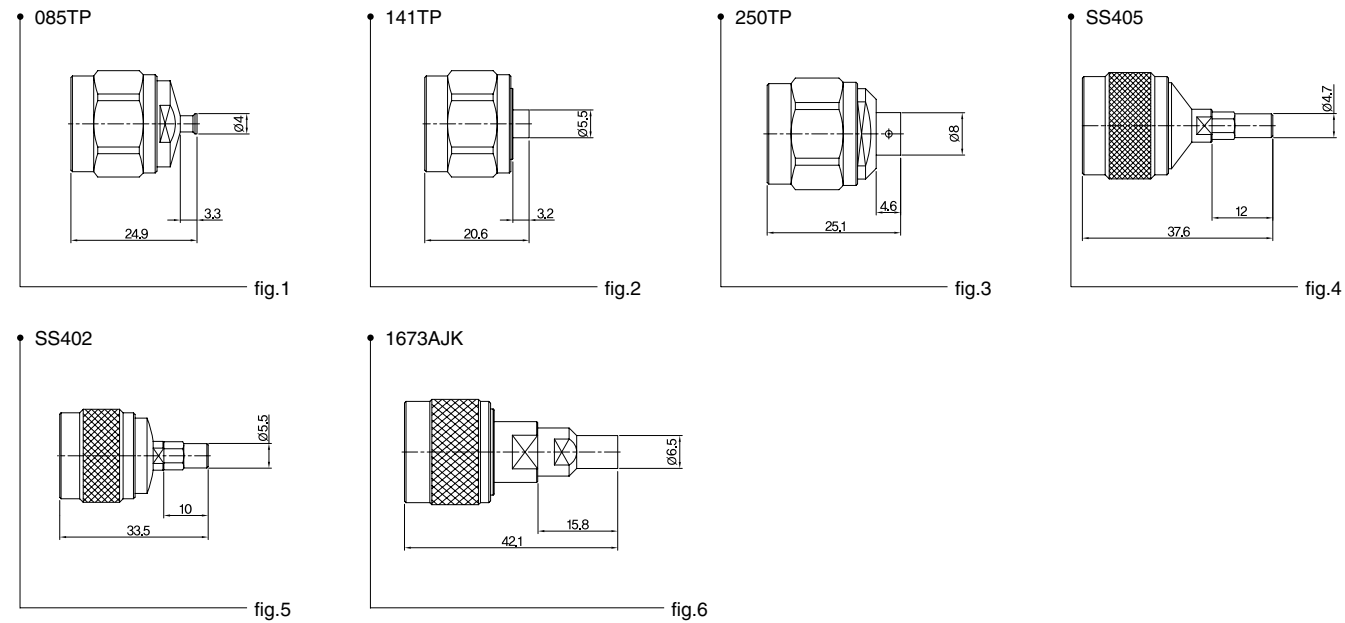


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Coupling		
1	N50-PS-085	K345-022-001	CN3411S03-001-1/1	S03 085TP/1671A/1671AJK	Silver	Silver	SUCO		
2	N50-PS-141	K345-014-005	CN3411S04-001-1/1	S04 141TP/1673A/1673AJK	Silver	Silver	SUCO		
3	N50-PS-250	K345-025-001	CN3411S05-001-1/1	S03 250TP / 250FL	Silver	Silver	SUCO		
4	N50-PSS-SS405	K345-030-000	CN3411S07-001-1/1	S07 SS405 (MF85)	Gold	Gold	Nickel		
5	N50-PSS-SS402	K345-027-000	CN3411S08-002-1/1	S08 SS402 (MF141)	Gold	Gold	Nickel		
6	N50-PSS-1673AJK	K345-014-003	CN3411S08-001-1/1	S04 1673AJK	Gold	Nickel	Nickel		

For flexible cable
Cable entry clamp
Centre contact soldered

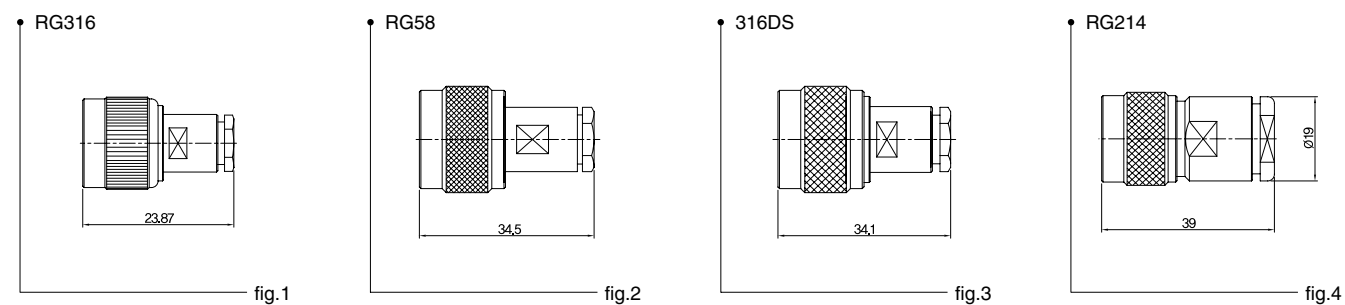


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Coupling		
1	N50-P3-316	K345-003-200	CN3411X02-001-1/1	X02 RG316	Gold	Nickel	SUCO		
2	N50-P3-58	K345-003-000	CN3411X13-001-1/1	X08 RG58	Gold	Nickel	SUCO		
3	N50-P3-316DS	K345-003-001	CN3411X03-001-1/1	X03 316DS	Gold	Nickel	SUCO		
4	N50-P3-214	K345-006-002	CN3411X15-002-1/1	X15 RG214	Gold	Nickel	SUCO		

For flexible cable
Cable entry crimp
Centre contact soldered

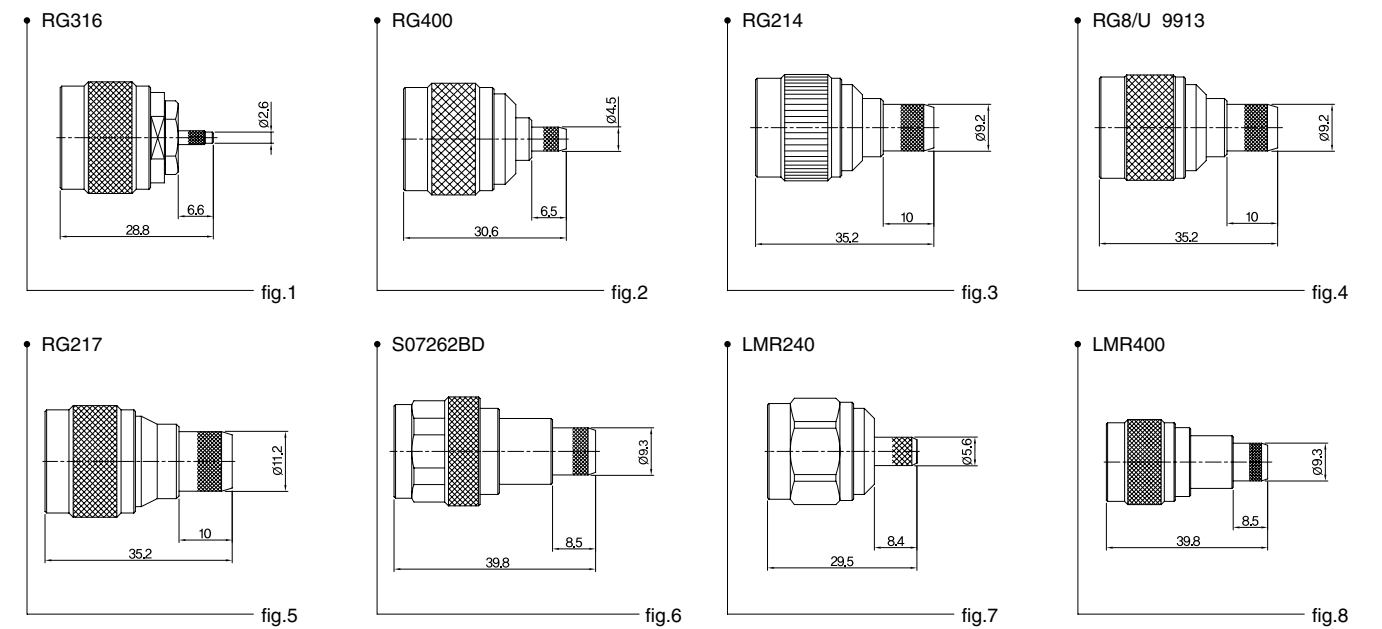


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Coupling		
1	N50-P3C-316	K345-009-000	CN3411X02-002-1/1	X02 RG316	Gold	Nickel	Nickel		
2	N50-PC-400	K345-001-000	CN3411X08-001-1/1	X08 RG400	Gold	Nickel	Nickel		
3	N50-PC-214	K345-002-000	CN3411X15-001-1/1	X15 RG214	Gold	Nickel	Nickel		
4	N50-PC-RG8/U	K345-002-003	CN3411X14-001-1/1	X33 RG8/U 9913	Gold	Nickel	Nickel		
5	N50-PC-217	K345-020-000	CN3411X19-001-1/1	X19 RG217	Gold	Nickel	Nickel		
6	N50-PC-S07262BD	K345-024-000	CN3411X13-001-1/1	X13 S07262BD	Gold	Nickel	Nickel		
7	N50-PC-LMR240	K345-029-000	CN3411X07-001-1/1	X07 LMR240	Gold	Nickel	Nickel		
8	N50-PC-LMR400	K345-026-000	CN3411X16-001-1/1	X16 LMR400	Gold	Nickel	Nickel		

● Right Angle Cable Plugs (male)

For semi-rigid cable
For entry soldered
Centre contact soldered

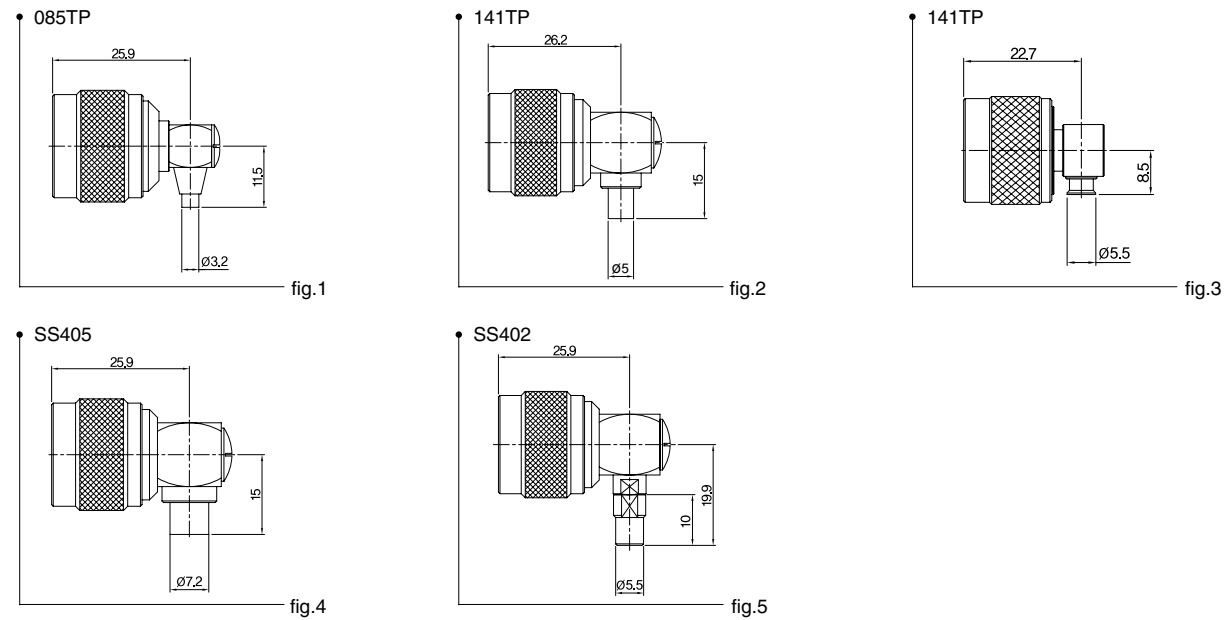


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Coupling		
1	N50-LPS-085	K345-116-000	CN3431S03-001-1/1	S03 085TP	Gold	Gold	Nickel		
2	N50-LPS-141	K345-119-000	CN3431S04-001-1/1	S04 141TP	Gold	Nickel	Nickel		
3	N50-LPS-141	K345-119-002	CN3431S04-002-1/1	S04 141TP	Gold	Gold	Nickel		Short
4	N50-LPSS-SS405	K345-116-001	CN3431S07-001-1/1	S07 SS405	Gold	Gold	Nickel		
5	N50-LPSS-SS402	K345-119-001	CN3431S08-001-1/1	S08 SS402 (MF141)	Gold	Nickel	Nickel		

For flexible cable
For entry clamp
Centre contact soldered

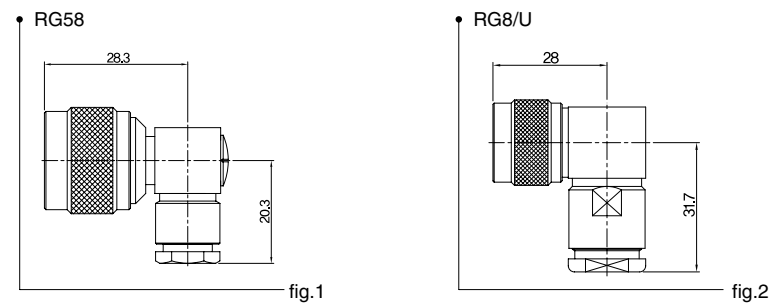


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Coupling		
1	N50-LP3-58	K345-111-000	CN3431X08-001-1/1	X08 RG58	Gold	Nickel	Nickel		
2	N50-LP3-RG8/U	K345-112-000	CN3431X33-001-1/1	X33 RG8/U	Gold	Gold	Gold		

For flexible cable
For entry crimp
Centre contact soldered

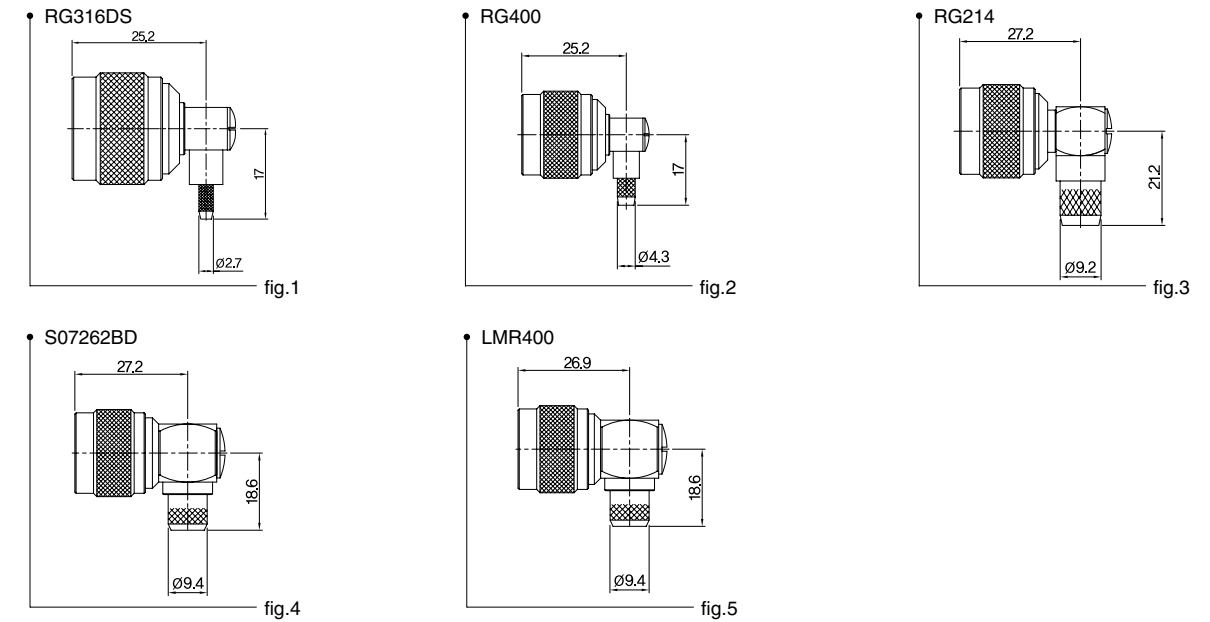


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Coupling		
1	N50-LPC-316DS	K345-115-000	CN3431X03-001-1/1	X03 RG316DS	Gold	Nickel	Nickel		
2	N50-LPC-400	K345-113-000	CN3431X08-002-1/1	X08 RG400	Gold	Nickel	Nickel		
3	N50-LPC-214	K345-114-000	CN3431X15-001-1/1	X15 RG214	Gold	Nickel	Nickel		
4	N50-LPC-214	K345-114-002	CN3431X15-002-1/1	X13 S07262BD	Gold	Nickel	Nickel		
5	N50-LPC-LMR400	K345-114-003	CN3431X16-001-1/1	X16 LMR400	Gold	Nickel	Nickel		

● Straight Cable Jacks(female)

For semi-rigid cable or For flexible cable
For entry clamp
Centre contact soldered

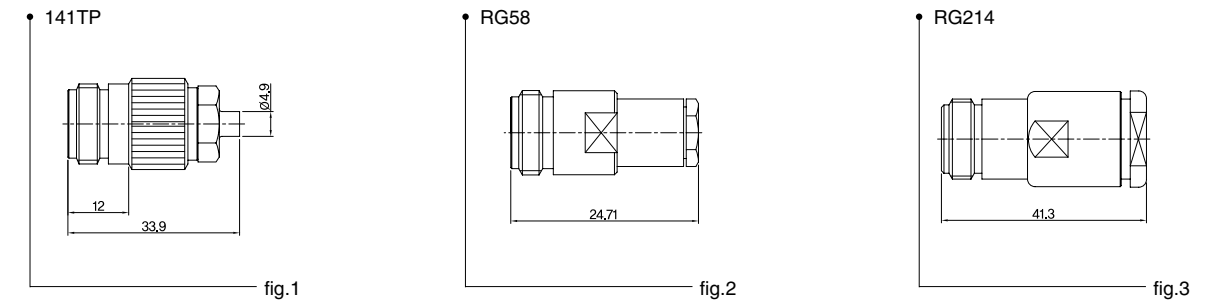


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Back Nut		
1	N50-J-3S-141	K345-338-000	CN3412S04-001-1/1	S04 141TP	Gold	Nickel	Nickel		
2	N50-J3-58	K345-220-000	CN3412X08-002-1/1	X08 RG58	Gold	Nickel	Nickel		
3	N50-J3-214	K345-221-100	CN3412X15-002-1/1	X25 RG214	Gold	Nickel	Nickel		

For flexible cable
For entry crimp
Centre contact soldered

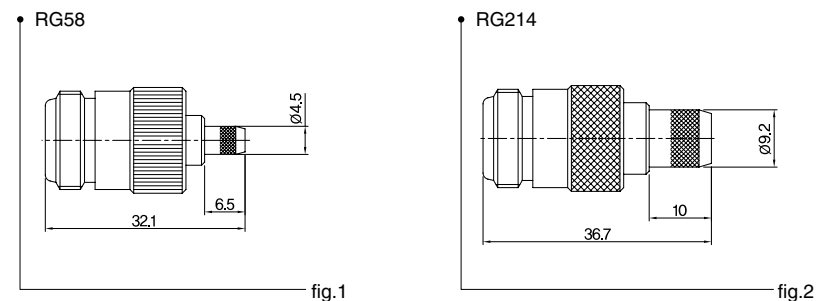


Fig	Type	Code		Cable Goup (example)	Plating		AS-In	Note
		Old Code	New Code		Pin	Body		
1	N50-JC-58	K345-212-000	CN3412X08-001-1/1	X08 RG58	Gold	Nickel		
2	N50-JC-214	K345-211-000	CN3412X15-001-1/1	X15 RG214	Gold	Nickel		

● Straight Bulkhead Cable Jacks (female)

For semi-rigid cable
For entry soldered
Centre contact soldered
With panel seal

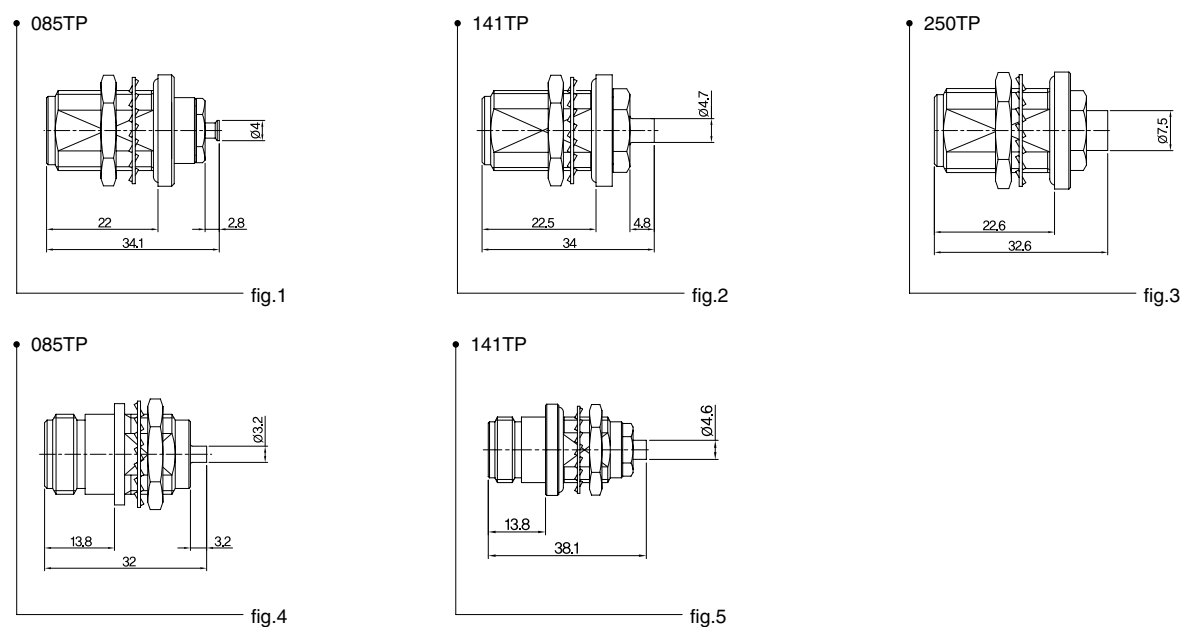


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Nut Washer		
1	N50-BJ-3S-085	K345-335-004	CN3422S03-001-1/1	S03 085TP	Gold	Nickel	Nickel		
2	N50-BJ-3S-141	K345-334-006	CN3422S04-001-1/1	S04 141TP	Gold	Nickel	Nickel		
3	N50-BJ-3S-250	K345-341-000	CN3422S05-001-1/1	S05 250TP	Gold	Nickel	Nickel		
4	N50-J-BS-085	K345-335-002	CN3426S03-001-1/1	S03 085TP	Gold	Nickel	Nickel		
5	N50-J-BS-3S-141	K345-340-000	CN3426S04-001-1/1	S04 141TP	Gold	Nickel	Nickel		

For flexible cable
For entry clamp
Centre contact soldered
With panel seal

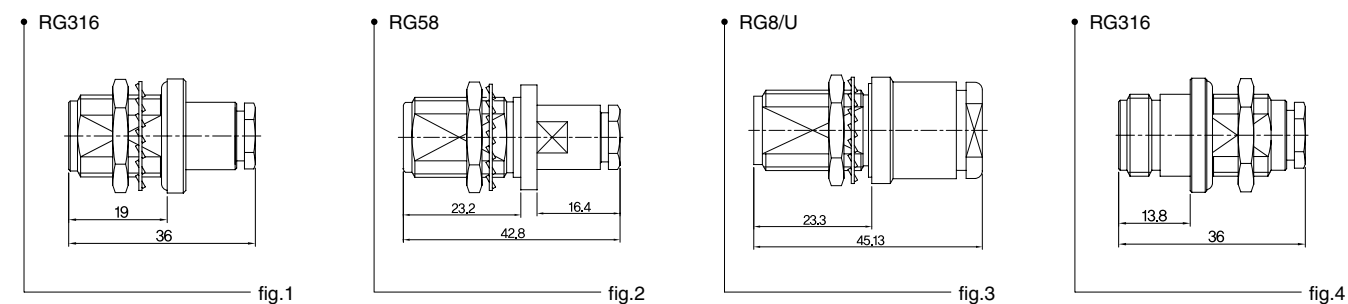


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Back Nut		
1	N50-BJ-3-316	K345-336-000	CN3422X02-001-1/1	X02 RG316	Gold	Nickel	Nickel		
2	N50-BJ-3-58	K345-333-000	CN3422X08-001-1/1	X08 RG58	Gold	Nickel	Nickel		
3	N50-BJ-3-RG8/U	K345-332-000	CN3422X33-001-1/1	X33 RG8/U	Gold	Nickel	Nickel		
4	N50-J-B3-316	K345-330-000	CN3426X02-001-1/1	X02 RG316	Gold	Nickel	Nickel		

For flexible cable
For entry crimp

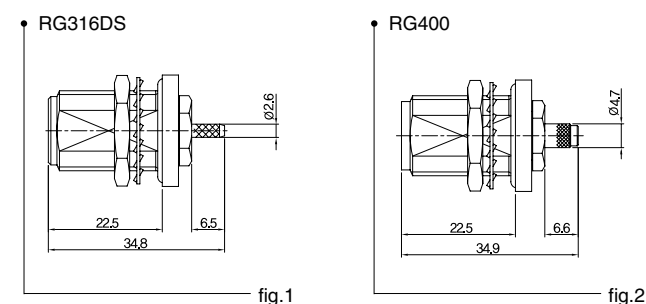


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Back Nut		
1	N50-BJ-3C-316DS	K345-336-004	CN3422X03-001-1/1	X03 RG316DS	Gold	Nickel	Nickel		
2	N50-BJ-3C-400	K345-337-000	CN3422X08-002-1/1	X08 RG400	Gold	Nickel	Nickel		



● Straight Panel Cable Plug(male) and Jacks (female)

For semi-rigid cable
Cable entry soldered
Centre contact soldered

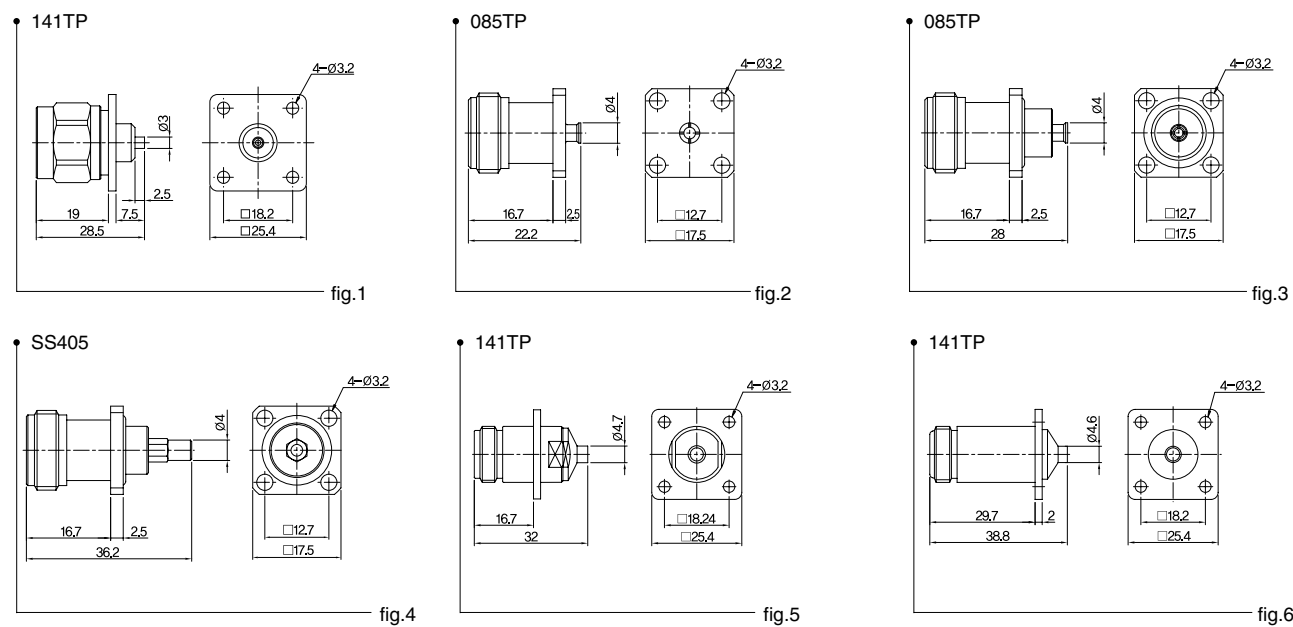


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Coupling		
1	N50-P-H4-S-141	K345-013-000	CN3443S04-001-1/1	S04 141TP	Gold	Nickel	Nickel		
2	N50-J-H4-S-085	K345-236-003	CN3444S03-002-1/1	S03 085TP	Gold	Nickel	-		
3	N50-J-H4-S-085	K345-236-001	CN3444S03-001-1/1	S03 085TP	Gold	Nickel	-		
4	N50-J-H4-PSS-SS402	K345-236-002	CN3444S08-001-1/1	S07 SS405(MF85)	Gold	Nickel	-		
5	N50-J-H4-3S-141	K345-237-002	CN3444S04-002-1/1	S04 141TP	Gold	Nickel	-		
6	N50-J-H4-S-141	K345-237-001	CN3444S04-001-1/1	S04 141TP	Silver	Silver	-		Long

For flexible cable
Cable entry clamp
Centre contact soldered

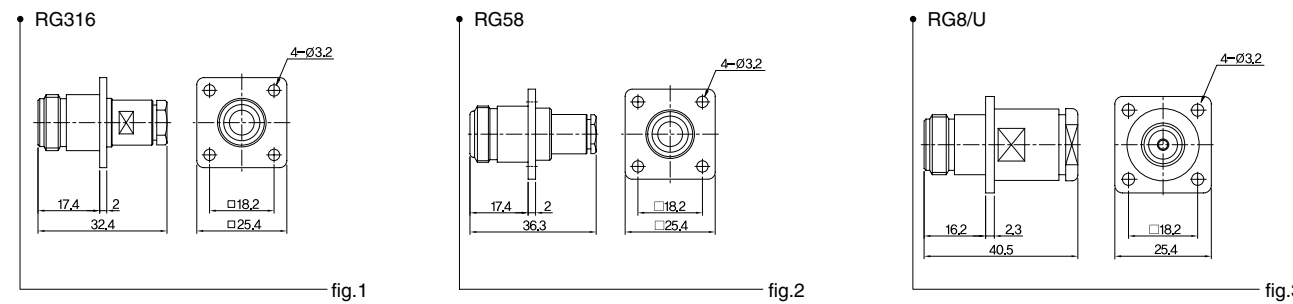


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Back Nut		
1	N50-J-H4-3-316	K345-225-000	CN3444X02-001-1/1	X02 RG316	Gold	Nickel	Nickel		
2	N50-J-H4-3-58	K345-226-000	CN3444X08-001-1/1	X08 RG58	Gold	Silver	Nickel		
3	N50-J-H4-3-RG8/U	K345-227-000	CN3444X33-001-1/1	X33 RG8/U	Gold	Nickel	Nickel		

For flexible cable
Cable entry crimp
With panel seal

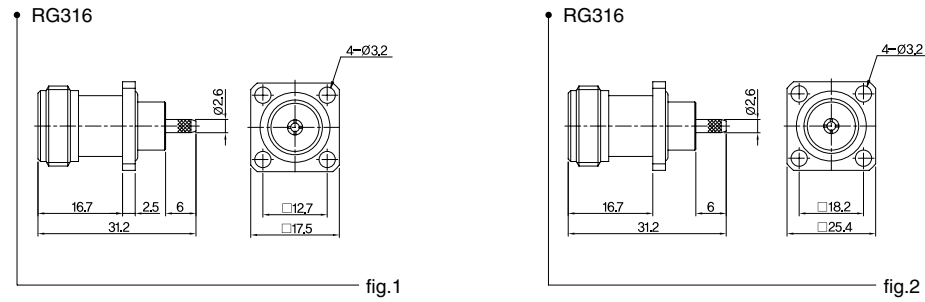


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Ferrule		
1	N50-J-H4-C-316	K345-238-000	CN3444X02-002-1/1	X02 RG316	Gold	Nickel	Nickel		
2	N50-J-H4-C-316	K345-238-001	CN3444X02-003-1/1	X02 RG316	Gold	Nickel	Nickel		

Receptacles with Solder End

● Receptacle Plugs(male) and Jack(female)

Panel mounted 12.7mm, 17.5mm, 25.4mm square

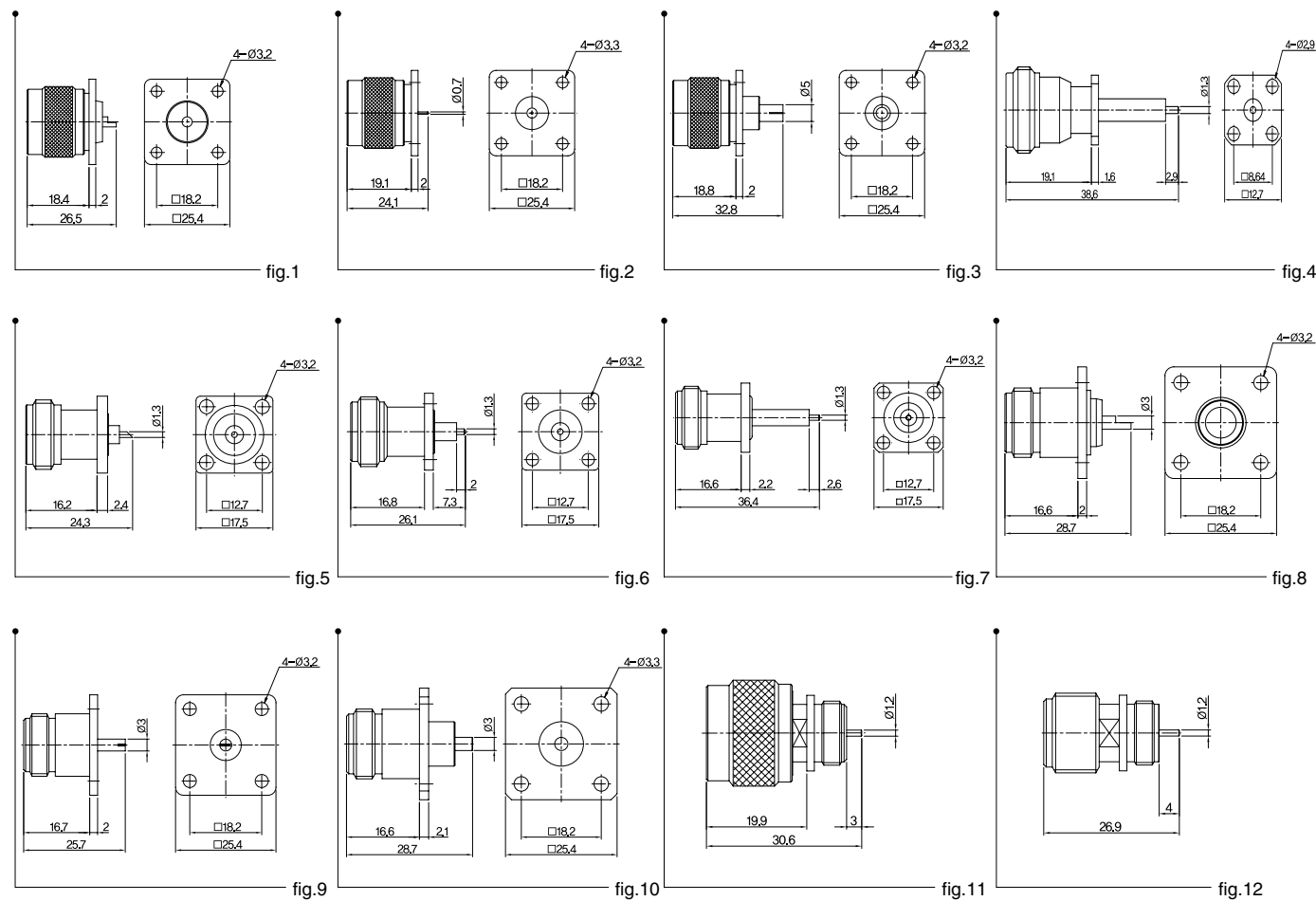
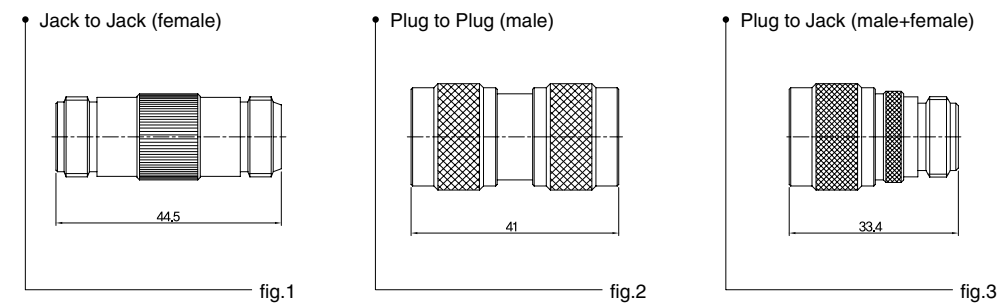


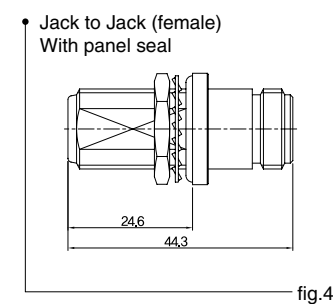
Fig	Type	Code		Plating			Mounting Hole	AS-In	Note
		Old Code	New Code	Pin	Body	Coupling Nut			
1	N50-P-H4-R	K345-412-000	CN3443000-001-1/1	Gold	Nickel	Nickel	ML74		
2	N50-P-H4-R	K345-418-000	CN3443000-003-1/1	Gold	Nickel	Nickel	ML75		
3	N50-P-H4-R	K345-412-002	CN3443000-002-1/1	Gold	Nickel	Nickel	ML76		
4	N50-J-H4-R	K345-421-000	CN3444000-005-1/1	Gold	Nickel	Nickel	ML77		
5	N50-J-H4-R	K345-411-001	CN3444001-001-1/1	Gold	Nickel	Nickel	ML78		
6	N50-J-H4-R	K345-411-003	CN3444000-003-1/1	Gold	Nickel	Nickel	ML79		
7	N50-J-H4-R	K345-411-004	CN3444001-002-1/1	Gold	Nickel	Nickel	ML80		
8	N50-J-H4-R	K345-410-013	CN3444000-002-1/1	Gold	Nickel	Nickel	ML81		
9	N50-J-H4-R	K345-417-004	CN3444000-004-1/1	Gold	Nickel	Nickel	ML82		
10	N50-J-H4-R	K345-410-001	CN3444000-001-1/1	Gold	Nickel	Nickel	ML83		
11	N50-P-BR	K345-583-001	CN3423000-001-1/1	Gold	Nickel	Nickel	ML84		
12	N50-J-BR	K345-524-001	CN3426000-001-1/1	Gold	Nickel	Nickel			

Adaptor within-Series

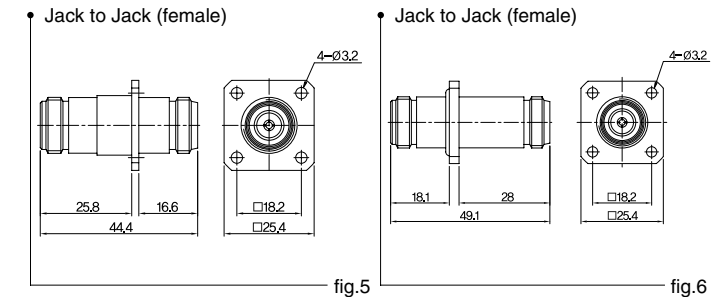
● Straight Adaptors



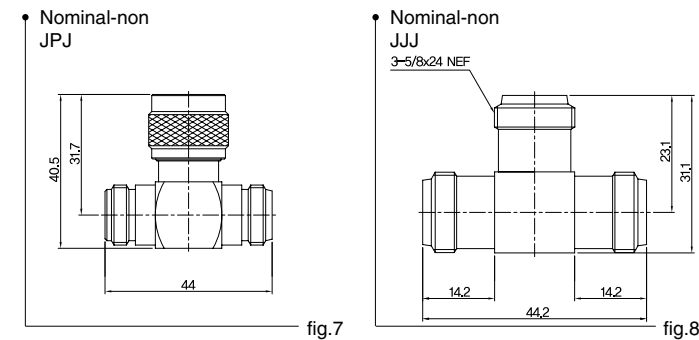
● Bulkhead Adaptors



● Panel Adaptors



● T-Adaptors



● Right Angle Adaptor

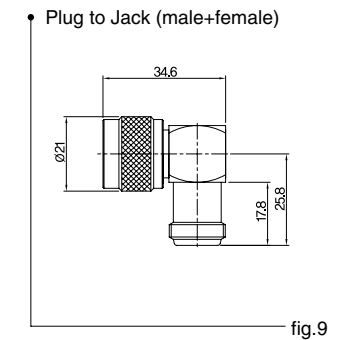


Fig	Type	Code		V.S.W.R	Plating		Mounting Hole	As-In	Note
		Old Code	New Code		Pin	Body			
1	N50-A-JJ	K345-702-000	AD3412-001-1/1	DC-6GHz, ≤1.2	Gold	Nickel	-		
2	N50-A-PP	K345-701-000	AD3411-001-1/1	DC-3GHz, ≤1.2	Gold	Nickel	-		
3	N50-A-JP	K345-703-000	AD3413-001-1/1	DC-3GHz, ≤1.2	Gold	Nickel	-		
4	N50-BA-JJ	K345-713-000	AD3422-001-1/1	DC-6GHz, ≤1.2	Gold	Nickel	ML85		
5	N50-PA-JJ	K345-711-002	AD3446-001-1/1	DC-6GHz, ≤1.2	Gold	Nickel	ML86		
6	N50-PA-JJ	K345-714-000	AD3446-002-1/1	DC-6GHz, ≤1.2	Gold	Nickel			
7	N50-TA-JPJ	K345-780-001	AD3452-001-1/1		Gold	Nickel	-		
8	N50-TA-JJJ	K345-781-100	AD3451-001-1/1		Gold	Nickel	-		
9	N50-LA-JP	K345-770-000	AD3433-001-1/1		Gold	Nickel	-		

Protective Cap

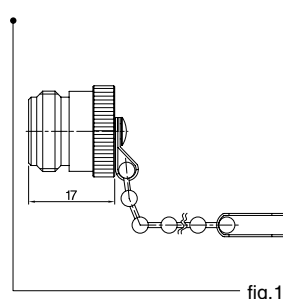


fig.1

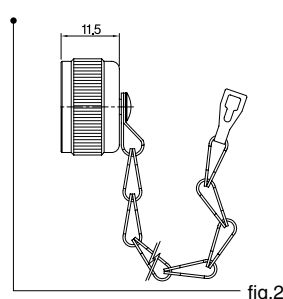


fig.2

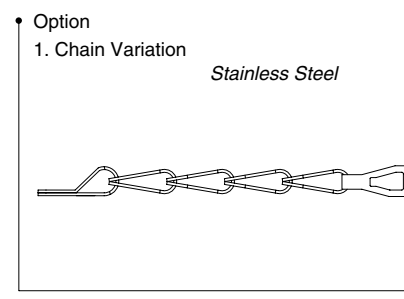


fig.3

Fig	Type	Code		Plating		Note
		Old Code	New Code	Body	Chain	
1	N50-J-DUST CAP	K345-841-000	CN3482-001-1/1	Nickal	SUS	Chain
2	N50-P-DUST CAP	K345-853-000	CN3480-001-1/1	Nickal	SUS	Chain

Terminations and DC/Block Termination

Terminations

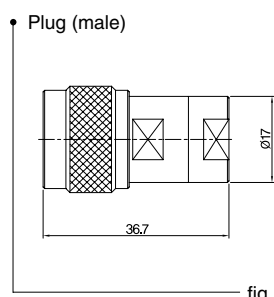


fig.1

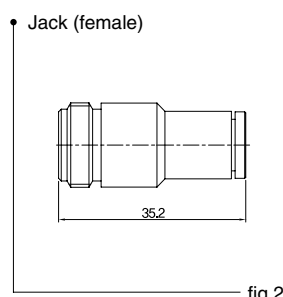


fig.2

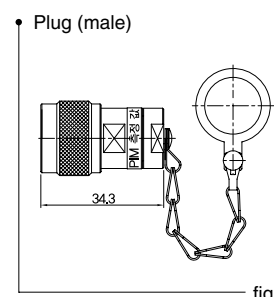


fig.3

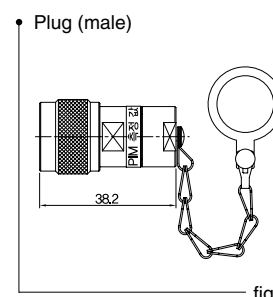


fig.4

DC/Block Termination

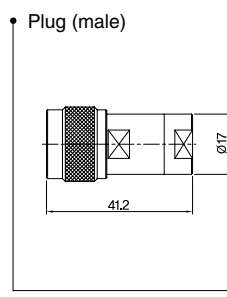


fig.5

Fig	Type	Code		V.S.W.R	Plating			Note
		Old Code	New Code		Pin	Body	Coupling	
1	N50-P-TERM	K345-950-000	CN3491-001-1/1	DC-3GHz ≤ 1.2dB	Gold	Nickel	Nickel	1.5W, No Chain
2	N50-J-TERM	K345-912-000	CN3494-001-1/1	DC-3GHz ≤ 1.2dB	Gold	Nickel	-	1.5W, No Chain
3	N50-P-TERM	K345-950-100	CN3492-001-1/1	DC-2GHz ≤ 1.2dB	Silver	SUCO	Nickel	1.5W, SUS Chain
4	N50-P-TERM	K345-950-200	CN3492-002-1/1	DC-2GHz ≤ 1.2dB	Silver	SUCO	Nickel	2.5W, SUS Chain
5	N50-P-DC BLOCK TERM	K345-970-000	CN3495-001-1/1	DC-3GHz ≤ 1.2dB	Gold	Nickel	Nickel	

Attenuators

50Ω plug to jack (male + female)

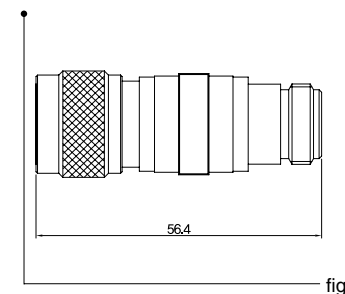


fig.1

Fig	Type	Code		V.S.W.R	Plating		Note
		Old Code	New Code		Body	Chain	
1	N50-A-JP	K345-790-100	CN3471-001-1/1	DC-3GHz ≤ 1.2dB	Gold	Nickel	10dB

※ The attenuators are available for customized dB at required frequency ranges.

Helix Coaxial Cable Connectors

Straight cable plugs(male)

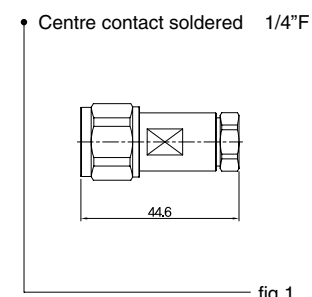


fig.1

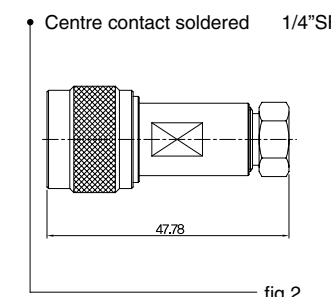


fig.2

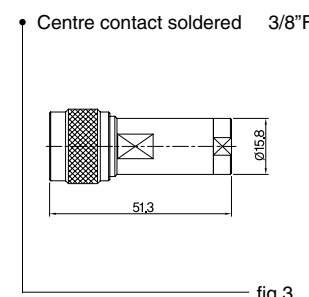


fig.3

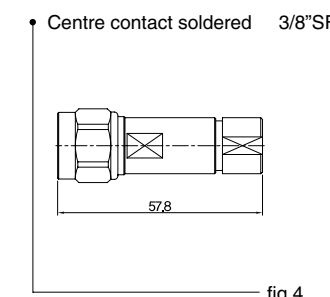


fig.4

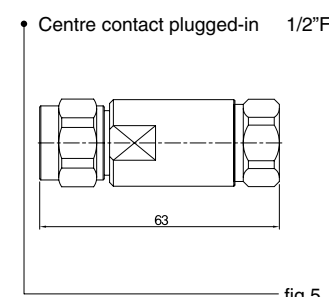


fig.5

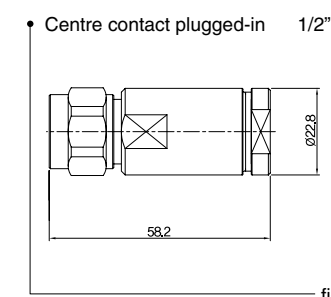


fig.6

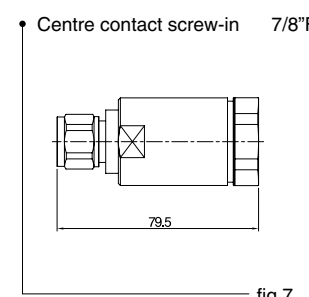


fig.7

Fig	Type	Code		Cable Goup (example)	Plating				AS-In	Note
		Old Code	New Code		Pin	Body	Back nut	Coupling		
1	N50-P3-1/4"F	K345-033-000	CN3411C05-001-1/1	C05 1/4"F	Silver	Silver	Nickel	SUCO		
2	N50-P3-1/4"SF	K345-023-000	CN3411C06-001-1/1	C06 1/4"SF	Gold	Silver	Nickel	Nickel		
3	N50-P3-3/8"F	K345-010-100	CN3411C07-001-1/1	C07 3/8"F	Gold	Nickel	Nickel	Nickel		L42W
4	N50-P3-3/8"SF	K345-021-000	CN3411C08-001-1/1	C08 3/8"SF	Gold	Nickel	Nickel	Nickel		
5	N50-P3-1/2"F	K345-010-003	CN3411C09-001-1/1	C09 1/2"F	Silver	Silver	Nickel	Nickel		
6	N50-P3-1/2"SF	K345-092-000	CN3411C10-001-1/1	C10 1/2"SF	Silver	Silver	Nickel	Nickel		
7	N50-P3-7/8"F	K345-091-000	CN3411C11-001-1/1	C11 7/8"F	Silver	Silver	Nickel	Nickel		



● Right Angle Cable Plugs(male)

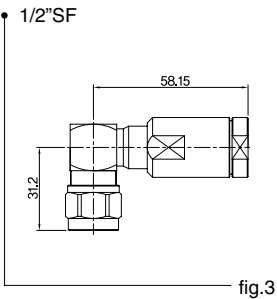
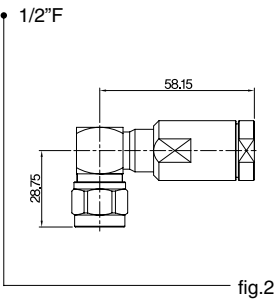
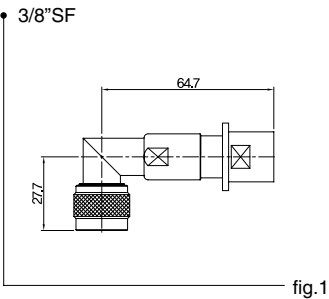


Fig	Type	Code		Cable Goup (example)	Plating				AS-In	Note
		Old Code	New Code		Pin	Body	Back nut	Coupling		
1	N50-LP3-3/8\"SF	K345-117-000	CN3431C08-001-1/1	3/8\"SF	Gold	Nickel	Nickel	Nickel		
2	N50-LP3-1/2\"F	K345-118-000	CN3431C09-001-1/1	1/2\"F	Gold	Nickel	Nickel	Nickel		
3	N50-LP3-1/2\"SF	K345-118-001	CN3431C10-001-1/1	1/2\"SF	Gold	Nickel	Nickel	Nickel		

● Straight Cable Jacks(Female)

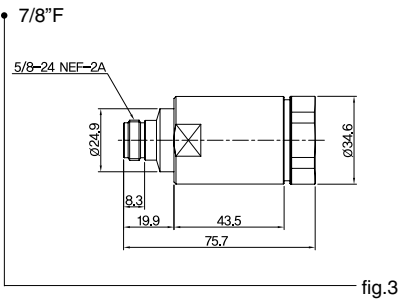
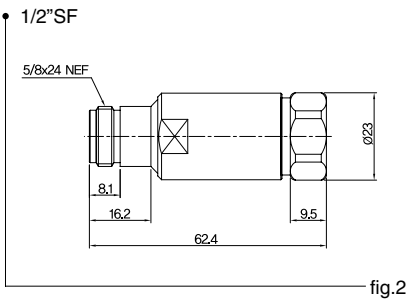
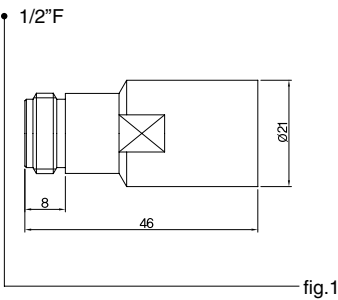


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Back nut		
1	N50-J3-1/2\"F	K345-230-000	CN3412C09-001-1/1	C09 1/2\"F	Gold	Nickel	Nickel		RFS Type
2	N50-J3-1/2\"SF	K345-241-000	CN3412C10-001-1/1	C10 1/2\"SF	Gold	Nickel	Nickel		
3	N50-J3-7/8\"F	K345-239-000	CN3412C11-001-1/1	C11 7/8\"F	Gold	Nickel	Nickel		

