

Within the internationally standardized TNC mating face dimensions, a perfect 75Ω characteristic impedance cannot be realized. However, at frequencies up to 1 GHz, the small impedance deviation is negligible for practical applications. With our TNC 75Ω connectors, a typical VSWR of 1.15 at 1 GHz is achieved. The threaded coupling mechanism allows the use under higher environmental load than BNC.

Compatibility:

All TNC 75Ω and TNC 50Ω connectors are intermateable without restrictions.

Series TNC- 75Ω



Microminiature Coaxial Connector

Technical Data

Material Data

Cable Connectors

Adaptor within-Series

Microminiature Coaxial Connector

Description

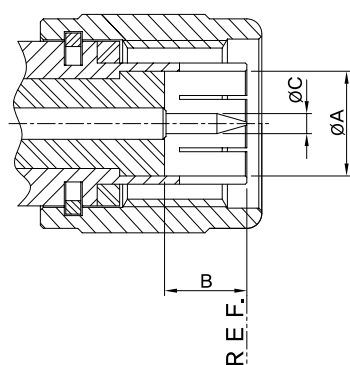
Within the internationally standardized TNC mating face dimensions, a perfect 75Ω characteristic impedance cannot be realized. However, at frequencies up to 1 GHz, the small impedance deviation is negligible for practical applications. With our TNC 75Ω connectors, a typical VSWR of 1.15 at 1 GHz is achieved. The threaded coupling mechanism allows the use under higher environmental load than BNC. Compatibility: All TNC 75Ω and TNC 50Ω connectors are intermateable without restrictions.

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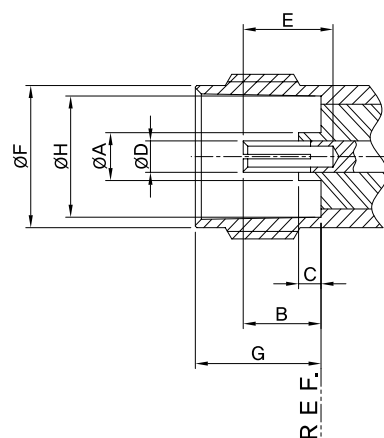
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Interface Dimensions

Plug (Male)



Jack (Female)



Interface Dimensions in mm/inch

	Plug (male)		Jack (Female)	
	Min.	Max.	Min.	Max.
A	4.83 / 0.190	4.97 / 0.196	-	4.72 / 0.186
B	5.28 / 0.208	5.79 / 0.228	4.72 / 0.186	5.23 / 0.206
C	1.32 / 0.052	1.37 / 0.054	1.50 / 0.059	-
D	-	-	2.10 / 0.083	-
E	-	-	4.95 / 0.195	-
F	-	-	9.60 / 0.378	9.70 / 0.382
G	-	-	8.35 / 0.329	8.48 / 0.334
H	-	-	8.10 / 0.319	8.15 / 0.321

Technical Data

Requirement

ELECTRICAL DATA

Impedance
 Frequency range
 RF leakage (between 2 ÷ 3 GHz)
 Dielectric withstanding voltage (at sea level)
 Working voltage (at sea level)
 Insulation resistance
 Contact resistance
 - Center contacts
 - Outer contacts

Specification

TEST REQUIREMENTS

75Ω
 DC 1GHz
 ≥ 60 dB
 1.5 kV rms, 50 Hz
 ≤ 500 V rms, 50 Hz
 ≥ 5 · 10⁹ MΩ
 ≤ 1.5 mΩ
 ≤ 1.0 mΩ

MECHANICAL DATA

Coupling nut torque
 - recommended
 - proof torque
 Contact captivation
 Durability (matings)

TEST REQUIREMENTS

46Ncm ~ 69Ncm / 4.1 in. lbs ~ 6.1 in. lbs
 170 Ncm / 15.0 in. lbs
 ≥ 27 N / 6.1 lbs
 ≥ 500

Material Data

Connector Part	Material		Plating
	Male	Female	
PIN	Brass	Beryllium-Copper	Gold
INSULATOR	PTFE	PTFE	-
BODIES	Brass	Brass	Nickel
SPRING RING	Brass	-	Nickel
GASKET	Silicone-Rubber	-	-
COUPLING	Brass	-	Nickel
INSERT	Brass	Brass	Silver
BACK NUT	Brass	Brass	Nickel

Cable Connectors

● Straight Cable Plug(male)

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

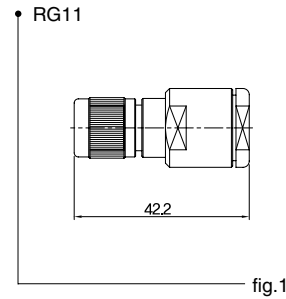


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Coupling		
1	TNC75-P3-RG11/U	K337-011-000	CN3111X18-001-1/1	X18 RG11	Gold	Nickel	Nickel		

Cable entry clamp(long type)

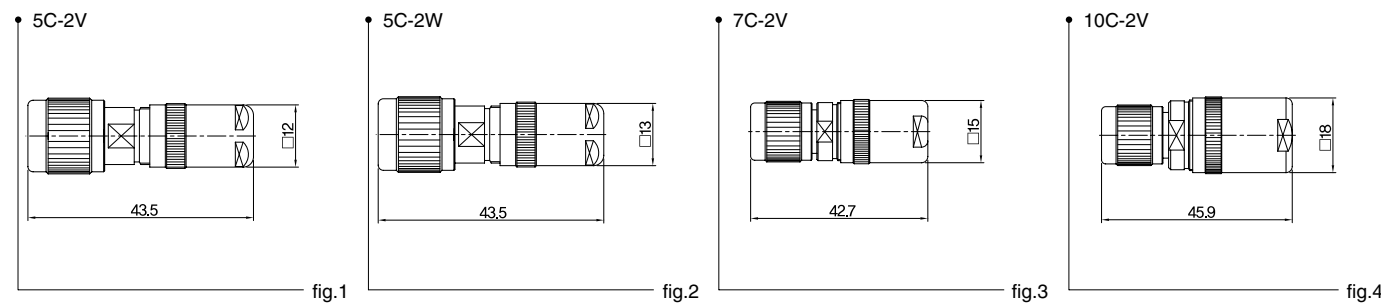


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Coupling		
1	TNC75-P5-5C-2V	K335-032-000	CN3111X10-001-1/1	X10 5C-2V	Gold	Nickel	Nickel		
2	TNC75-P5-5C-2W	K335-033-000	CN3111X26-001-1/1	X26 5C-2W	Gold	Nickel	Nickel		
3	TNC75-P5-7C-2V	K335-034-000	CN3111X27-001-1/1	X27 7C-2V	Gold	Nickel	Nickel		
4	TNC75-P5-10C-2V	K335-035-000	CN3111X28-001-1/1	X28 10C-2V	Gold	Nickel	Nickel		

● Straight Cable Jack(female)

For flexible cable
Cable entry clamp

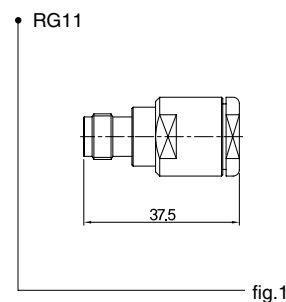


Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Back Nut		
1	TNC75-J3-RG11/U	K337-211-000	CN3112X18-001-1/1	X18 RG11	Gold	Nickel	Nickel		

Adaptor within-Series

● Straight Adaptors

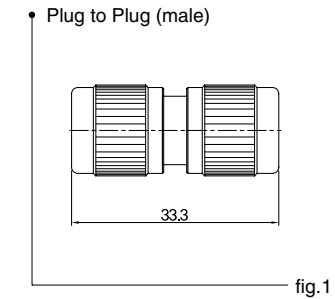
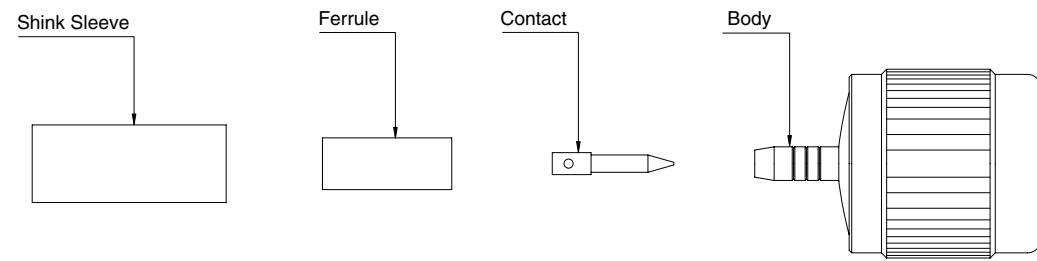


Fig	Type	Code		Plating			AS-In	Note
		Old Code	New Code	Pin	Body	Coupling		
1	TNC75-A-PP	K335-702-000	AD3111-001-1/1	Gold	Nickel	Nickel		

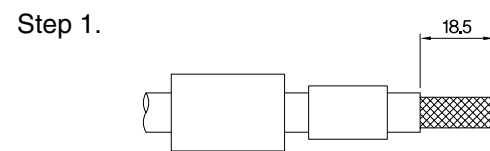
● STANDARD CRIMP



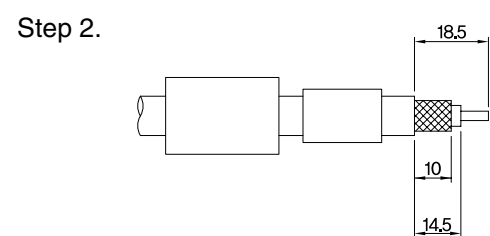
● CONNECTORS

- K335-020
- K335-021

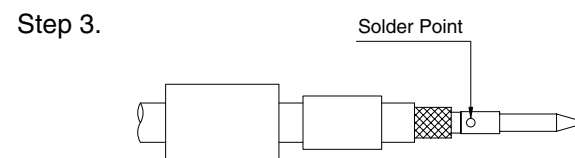
1. Insert the ferrule and the shrink sleeve into the cable and strip off the outer seath.



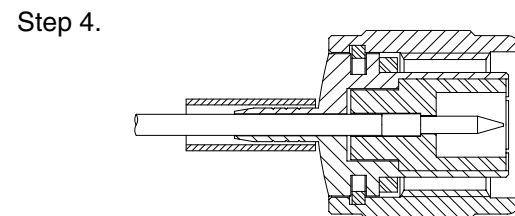
2. After stripping off the out conductor and the inner conductor as shown in the diagram, prepare the inner conductor to solder.



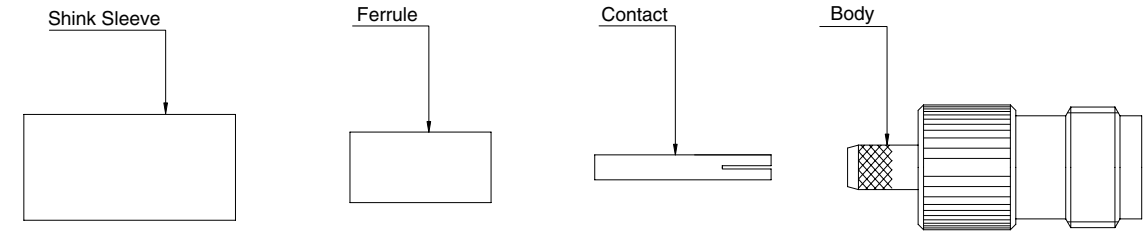
3. Insert the cable into the body putting the inner conductor to the solder point exactly and solder.



4. After inserting the ferrule and crimping with the crimp tool, contract the shrink sleeve.



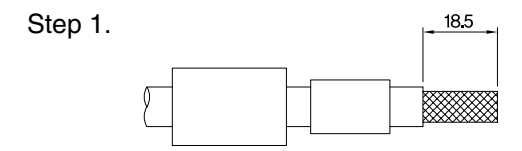
● STANDARD CRIMP



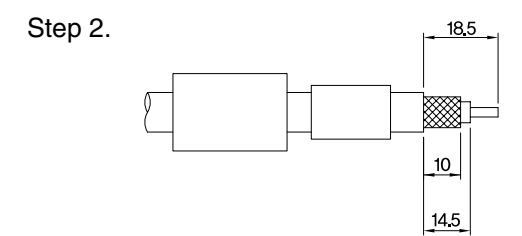
● CONNECTORS

- K335-211
- K335-212

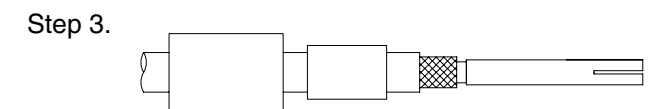
1. After inserting the ferrule and the shrink sleeve into the cable, strip off the outer seath.



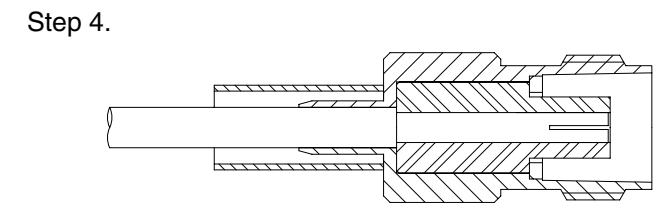
2. After stripping off the out conductor and inner conductor as shown in the diagram.



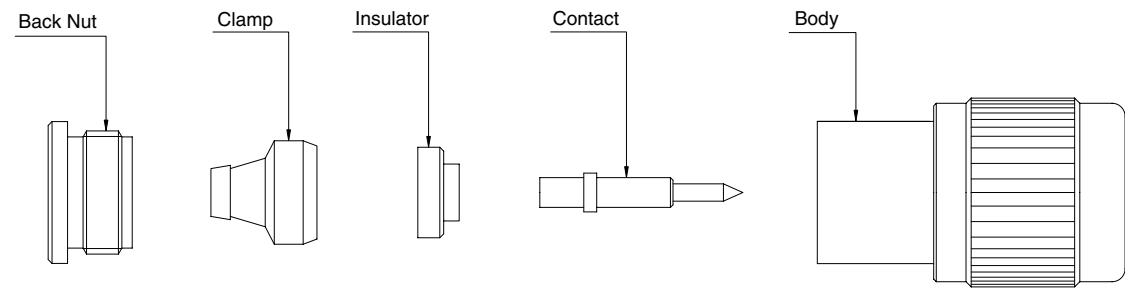
3. Insert the cable into the body putting the inner conductor to the solder point exactly and solder it.



4. After inserting the ferrule and crimping with the crimp tool contact the shrink sleeve.



● STANDARD CLAMP



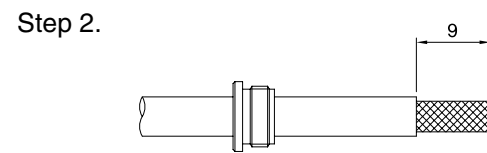
● CONNECTORS

- K335-010
- K335-030
- K335-003

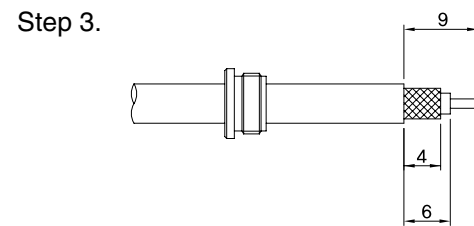
1. Cut the cable as much as required.



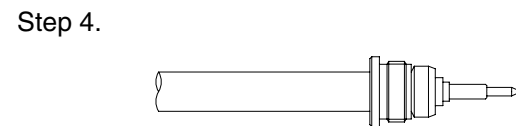
2. Insert the back nut into the cable and strip off the outer sheath.



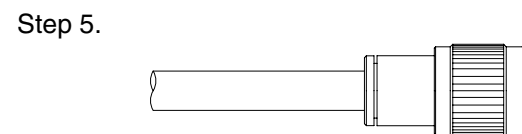
3. Strip off the out conductor and the center conductor as shown in the diagram.



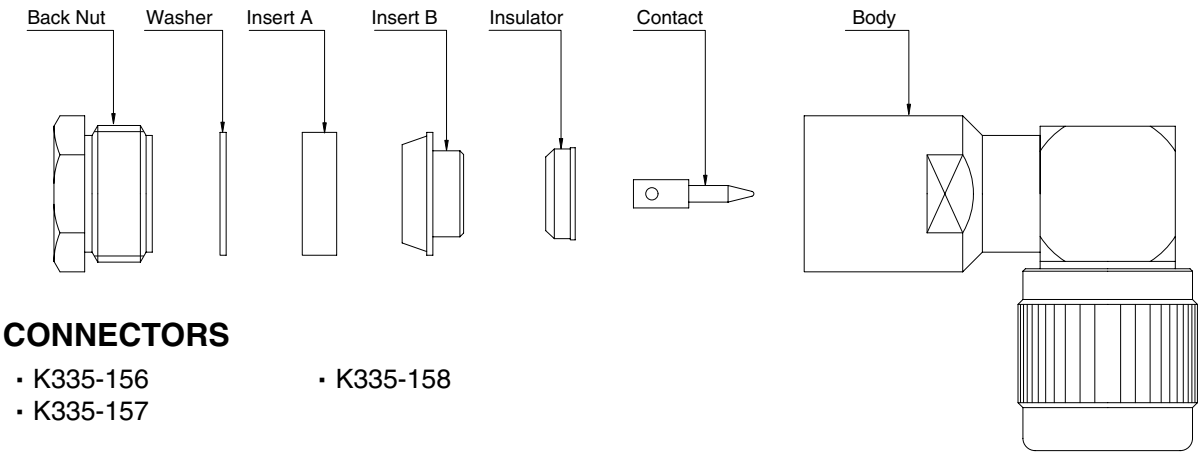
4. After soldering the center conductor, insert the clamp, the Insulator into it and solder the center contact.



5. Insert the box nut into the body and screw it putting in the groove of the body with coupling torque.



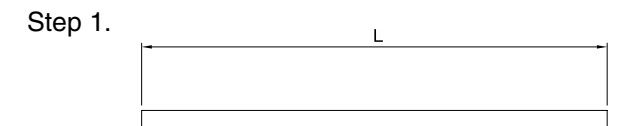
● RIGHT ANGLE CLAMP



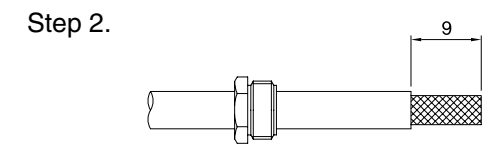
● CONNECTORS

- K335-156
- K335-157
- K335-158

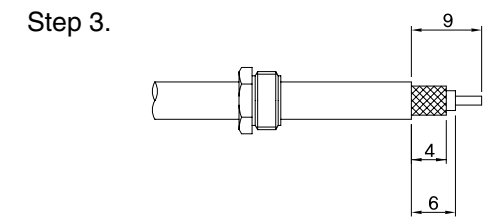
1. Cut the cable as much as required.



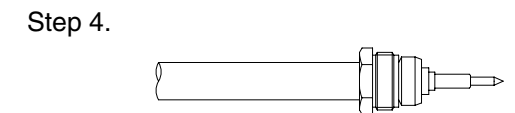
2. Insert the back nut into the cable and strip off the outer sheath.



3. Strip off the out conductor and the center conductor as shown in the diagram.



4. After soldering the center conductor, the washer 1, the gasket, the clamp, the washer 2 in the order named and solder the center contact.



5. Insert the body into the back nut and tighten with the coupling torque.

