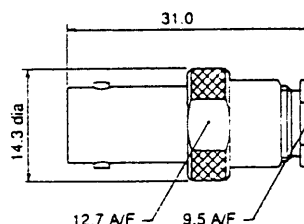


BNC Series

-309-515^{to} 709-

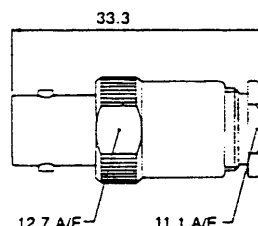
STRAIGHT JACKS

Solder center contact,
clamp outer



Impedance	Cable group ①	Part Number ②	
50 ohm	010	B35 E13 • 010 X99	UG-style item, non-captive contact
50 ohm	022	B35 E03 • 022 X99	Captive contact, pressure sleeve cable clamp
50 ohm	030	B35 E03 • 030 X99	As above
75 ohm	025	B37 E21 • 025 X99	UG-style item, non-captive contact

Solder center contact,
clamp outer



Impedance	Cable group ①	Part Number ②	
50 ohm	010	B35 E06 • 010 X99	UG-style item, non-captive contact
50 ohm	010	B35 E07 • 010 X99	Captive contact, V groove gasket, braid clamp
50 ohm	010	B35 E20 • 010 X99	UG-style item, non-captive contact, V groove gasket
50 ohm	010	B35 E60 • 010 X99	Captive contact, pressure sleeve cable clamp
50 ohm	022	B35 E60 • 022 X99	As above
75 ohm	012	B37 E60 • 012 X99	As above
75 ohm	022	B37 E60 • 022 X99	As above
75 ohm	025	B37 E22 • 025 X99	UG-style item, non-captive contact, V groove gasket
75 ohm	025	B37 E60 • 025 X99	Captive contact, pressure sleeve cable clamp
75 ohm	052	B37 E60 • 052 X99	As above

① For cable group to cable type cross reference refer to page 221.

② Replace the • in the part number with required plating code, see page 3 for details.

Please contact the Sales Office for any uncataloged requirements.

All measurements are in millimeters unless otherwise specified.

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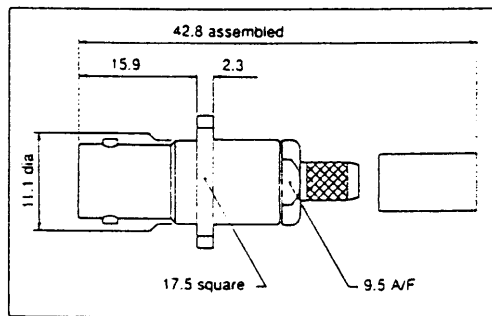
North America: Tel. (800) 366-2266
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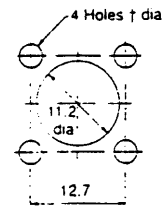
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Panel jacks

Crimp centre contact,
crimp outer



mounting detail



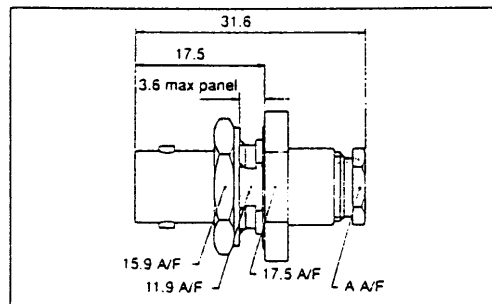
fixing hole sizes
(see part number)
M2.5 x 0.45 — 6H=D
3.56 UNF=E
4.40 UNC=F
6 BA=G
3.0mm=H
2.8mm=K

Impedance	Cable group ①	Part Number ②
75 ohm	062	B37 G94 •062 †99
75 ohm	117	B37 G94 •117 †99

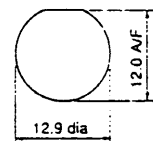
	Assy notes page:
30039	48 (a)
30039	48 (a)

Bulkhead jacks

Solder centre contact,
clamp outer



mounting detail



Impedance	Cable group ①	Part Number ②	Dim A	Assy notes page:
50 ohm	009	B35 H39 •009 X99	11.10 mm	Captive contact, pressure sleeve cable clamp 42 (a)
50 ohm	010	B35 H05 •010 X99	11.10 mm	UG-style item, non-captive contact, V groove gasket 43 (a)
50 ohm	010	B35 H06 •010 X99	11.10 mm	As above 43 (a)
50 ohm	010	B35 H07 •010 X99	11.10 mm	Captive contact, V groove gasket, braid clamp 45 (b)
50 ohm	010	B35 H39 •010 X99	11.10 mm	Captive contact, pressure, sleeve cable clamp 42 (a)
50 ohm	022	B35 H30 •022 X99	9.53 mm	As above 42 (b)
50 ohm	022	B35 H39 •022 X99	11.10 mm	As above 42 (b)
50 ohm	024	B35 H30 •024 X99	9.53 mm	As above 42 (b)
75 ohm	012	B37 H39 •012 X99	11.10 mm	As above 42 (a)
75 ohm	022	B37 H39 •022 X99	11.10 mm	As above 42 (b)
75 ohm	025	B37 H07 •025 X99	11.10 mm	Captive contact, V groove gasket, braid clamp 45 (b)
75 ohm	025	B37 H39 •025 X99	11.10 mm	Captive contact, pressure sleeve cable clamp 42 (a)
75 ohm	025	B37 H40 •025 X99	11.10 mm	UG-style item, non-captive contact, V groove gasket 43 (a)
75 ohm	025	B37 H50 •025 X99	11.10 mm	As above 43 (a)
75 ohm	052	B37 H39 •052 X99	11.10 mm	Captive contact, pressure sleeve cable clamp 42 (a)

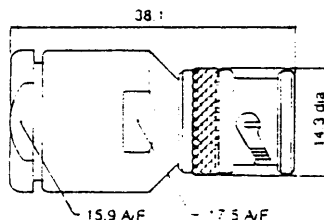
① For cable group to cable type cross reference see fold out section of rear cover
 ② Replace the • in the part number with required plating code. see page 8 for details
 ③ Crimp tool 30039 requires separate dies. for all details on tooling see page 40
 † Replace the † in the part number with the letter corresponding to fixing hole sizes
 Preferred items
 Please contact the Sales Office for any uncatalogued requirements

BNC Series 309 588/590



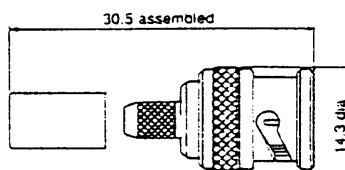
STRAIGHT PLUGS

Solder center contact,
clamp outer



Impedance	Cable group ①	Part Number ②	
50 ohm	001	B35 A03 • 001 X99	Captive contact, pressure sleeve cable clamp
50 ohm	004	B35 A03 • 004 X99	As above

Crimp center contact,
crimp outer



Impedance	Cable group ①	Part Number ②	Crimp tool ③
50 ohm	010	B35 A41 • 010 X99	30040 or 30039
50 ohm	022	B35 A41 • 022 X99	30040 or 30039
50 ohm	060	B35 A41 • 060 X99	30040 or 30039
75 ohm	007	B37 A41 • 007 X99	30039
75 ohm	012	B37 A41 • 012 X99	30040 or 30039
75 ohm	022	B37 A41 • 022 X99	30040 or 30039
75 ohm	A25	B37 A41 • A25 X99	30040 or 30039
75 ohm	B25	B37 A41 • B25 X99	30040 or 30039
75 ohm	B35	B37 A41 • B35 X99	30039
75 ohm	062	B37 A55 • 062 X99	30039
75 ohm	117	B37 A55 • 117 X99	30039
75 ohm	366	B37 A41 • 366 X99	30040 or 30039

① For cable group to cable type cross reference refer to page 221.

② Replace the • in the part number with required plating code, see page 3 for details.

③ Crimp tool 30039 requires separate dies, for all details on tooling, see page 215.

④ Other colors available Please contact the Sales Office.

Please contact the Sales Office for any uncataloged requirements.

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Cable Group Cross Reference

Below is a list of typical cables which fall into the cable group classifications relevant to the connectors outlined in this catalog.

Cable Group to Cable Type

Cable Group	Impedance	Cable Type
001	50	PSF1/4M (BBC), RG8A/U, RG213/U, URM67
001	75	RG11A/U, RG63B/U, RG114A/U, URM64
004	50	RG9B/U, RG214/U, URM91
004	75	RG13A/U, RG216/U, URM60
007	75	PSF1/2M (BBC), BELDEN 8281
009	50	RG303/U, URM72, URM108
010	50	RG58C/U, RG141A/U, URM43, URM76
012	75	URM70
022	50	RG174A/U, RG188A/U, RG316/U, URM95
022	75	RG179B/U, RG187A/U, TM3289, URM111
024	50	RG178B/U, RG196A/U, T3263, URM110
025	75	RG59B/U, RG62A/U, RG140/U, TM3304
027	75	TM3231
028	75	URM203, URM205
029	50	TM3250, TM3328
030	75	BT502A, BT2001
052	75	URM201, URM202, T3020, T3022
060	50	RG55B/U, RG142B/U, RG223/U, RG400/U, URM301
062	75	BT500B, BT2003, BT2003A
073	50	RG402/U, UT141A
079	50	RG143A/U

Cable Type to Cable Group

Cable Type	Impedance	Cable Group
AMPHENOL 21-597	75	119
BELDEN 8281	75	007
BELDEN 9907	50	B10
BT500B	75	062
BT502A	75	030
BT502B	75	117
BT2001	75	030
BT2002	75	117
BT2003	75	062
BT2003A	75	062
BT3002	75	437
H100	50	434
H9588	50	373
MM10/75 (UKAEA)	75	334
MM11/50 (UKAEA)	50	339
PRECISION TUBES BA50085	50	285
PSF1/2M (BBC)	75	007
PSF1/3M (BBC)	75	366, 025
PSF1/4M (BBC)	50	001
RAYDEX RA768	75	768
RG6A/U	75	079
RG8A/U	50	001
RG9B/U	50	004
RG11A/U	75	001
RG13A/U	75	004
RG55B/U	50	060
RG58C/U	50	010
RG59B/U	75	A25, 025
RG62A/U	93	B25, 025
RG63B/U	75	001
RG71B/U	93	025
RG114A/U	75	001
RG122/U	75	B35
RG140/U	75	A25, 025
RG141A/U	50	010
RG142B/U	50	060
RG143A/U	50	079
RG174A/U	50	022
RG178B/U	50	024
RG179B/U	75	022
RG187A/U	75	022
RG188A/U	50	022
RG196A/U	50	024

Continued on next page.

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Part Number System

Plating Finishes

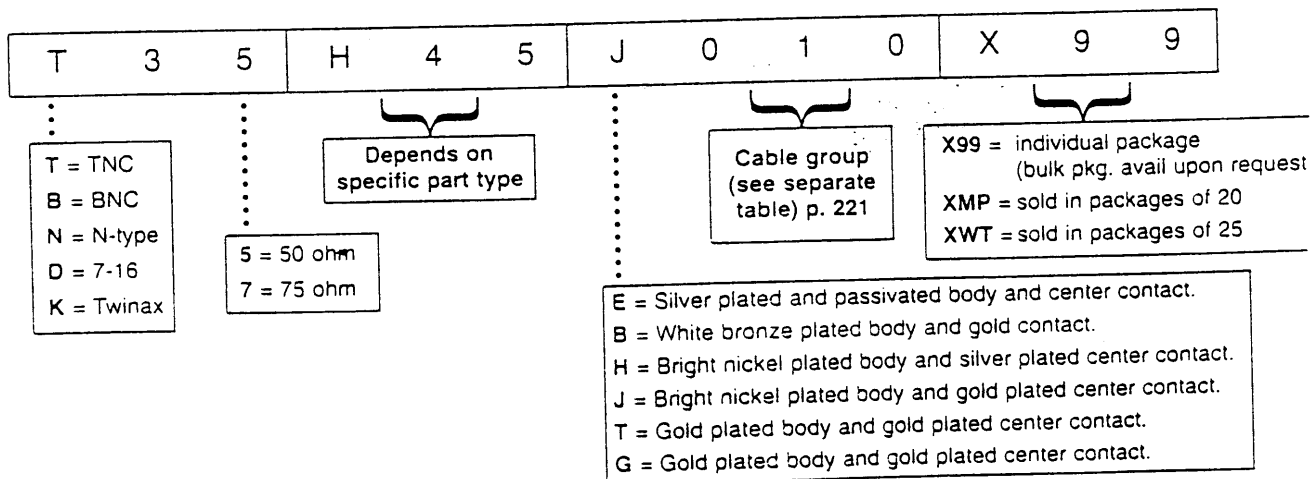
M/A-COM part numbers utilizing a 13 digit configuration offer a variety of plating finishes as designated by the codes listed below.

To select a required plating finish, replace the • shown in the part number with the appropriate code letter. For example, to select nickel plating replace the • in the part number with the letter J: B35 A41 J 010 X99.

- Code E** Silver plated and passivated body and center contact.
- Code B** White bronze plated body and gold contact.¹
- Code H** Bright nickel plated body and silver plated center contact.
- Code J** Bright nickel plated body and gold plated center contact.
- Code T** Gold plated body and gold plated center contact.²
- Code G** Gold plated body and gold plated center contact.

M/A-COM Part Number Nomenclature

As an example, consider T35 H45 J010 X99:



- 1 Contact on 7-16 connectors are silver plated for intermod benefits.
- 2 Other non critical parts are bright nickel plated.

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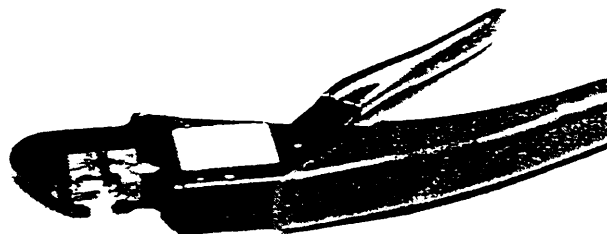
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Tooling

G30039 (supplied without dies)

Heavy duty ratchet controlled handtool, with inter-changeable dies. This rigid tool is suitable for most connector series by means of its interchangeable die capability. G30039 is supplied without dies; for details of dies required for BNC connectors see table below:

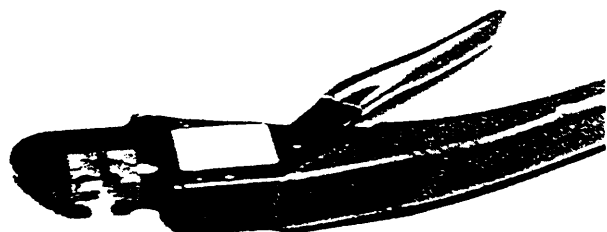
Cable Group	Die Set	BS Ref
007	30032XAHZH	WG
010	30032XAHFD	WD
012	30032XAXH	WE
022	30032XAHFD	WD
A25	30032XAXH	WE
B25	30032XAXH	WE
030	30032XXXED	VC
B35	30032XAXED	WC
060	30032XAHFD	WD
062	30032XXXIA	VR
117	30032XXXW	VQ
339	30032XAXH	WE
344	30032XAXH	WE



G30039 (supplied without dies)

Heavy duty ratchet controlled handtool, with inter changeable dies. This rigid tool is suitable for most connector series by means of its interchangeable die capability. G30039 is supplied without dies; for details of dies required for N connectors see table below:

Cable Group	Die Set	BS Ref.
010	30032XAHFD	WD
060	30032XAHFD	WD



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Fax +44 (1344) 30

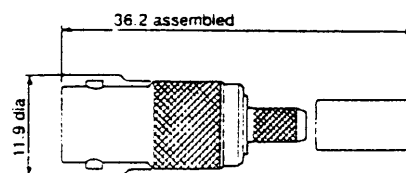
4

BNC Series

309-606/618

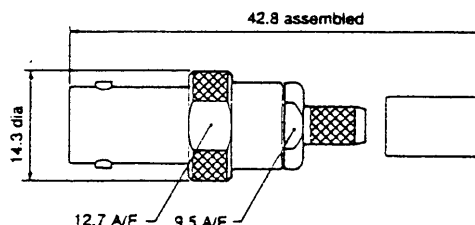
STRAIGHT JACKS

Crimp center contact,
crimp outer



Impedance	Cable group ①	Part Number ②	Crimp tool ③
50 ohm	010	B35 E43 • 010 X99	30040 or 30039
50 ohm	022	B35 E43 • 022 X99	30040 or 30039
50 ohm	060	B35 E43 • 060 X99	30040 or 30039
75 ohm	012	B37 E43 • 012 X99	30040 or 30039
75 ohm	022	B37 E43 • 022 X99	30040 or 30039
75 ohm	A25	B37 E43 • A25 X99	30040 or 30039
75 ohm	B25	B37 E43 • B25 X99	30040 or 30039

Crimp center contact,
crimp outer



Impedance	Cable group ①	Part Number ②	Crimp tool ③
75 ohm	062	B37 E93 • 062 X99	30039

① For cable group to cable type cross reference refer to page 221.

② Replace the • in the part number with required plating code, see page 3 for details.

③ Crimp tool 30039 requires separates dies, for all details on tooling, see page 215.

† Replace the † in the part number with the letter corresponding to fixing hole sizes.

Please contact the Sales Office for any uncataloged requirements.

All measurements are in millimeters unless otherwise specified.

309515 - 309709

(not inclusive)

BNC

B35 E43 E610Y 39

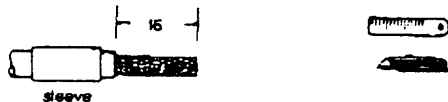
Assembly instructions

B35H45E022Y 39

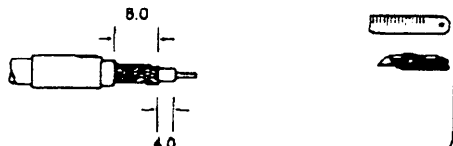
B37 H45 E022X 39

Instruction (a)

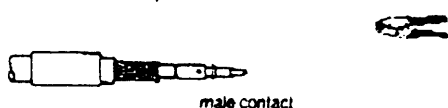
- 1 Slide metal crimp sleeve over cable, trim outer sheath from cable as shown.



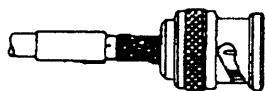
- 2 Trim back braid and dielectric to the dimensions shown.



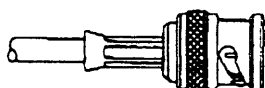
- 3 Fit contact over centre conductor to butt against the dielectric, then crimp.



- 4 Press sub-assembly into body, until contact clicks into place and ensuring that the knurled ferrule is inserted between the dielectric and braid.



- 5 Slide the sleeve along the cable, until it butts against the body sub-assembly. Crimp, using the tool listed below.

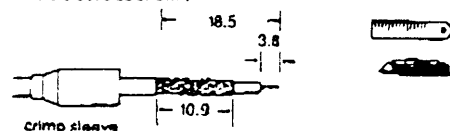


Note: a plug is shown, but these instructions are relevant to both plugs and jacks. The shape of contacts and insulators may also vary from the drawings shown.

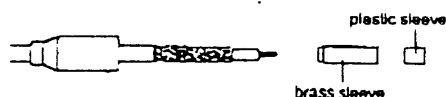
Cable groups	Tool	Die	(BS ref)
012	30040	(fixed die)	(WE)
A25, B25		30032XAX	
010, B10, 060	30040	(fixed die)	(WD)
052		30032XAHFD	
007	30039	30032XAHZH	(WG)

Instruction (b)

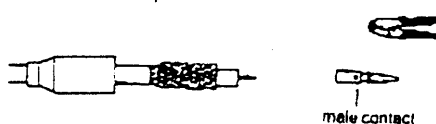
- 1 Slide metal crimp sleeve over cable, trim outer sheath, braid and dielectric as shown.



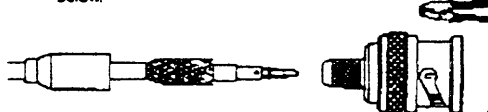
- 2 Slide small brass sleeve over dielectric and under braid. Place small plastic sleeve on the end of the dielectric.



- 3 Fit contact over centre conductor to butt against the dielectric, then crimp.



- 4 Press sub-assembly into body, ensuring knurled ferrule is inserted between the dielectric and braid. Slide sleeve to butt against body sub-assy. Crimp, using the tool listed below.



Note: a plug body is shown, but these instructions are relevant to both plugs and jacks. The shape of contacts and insulators may also vary from the drawings shown.

Cable group	Tool	Die	(BS ref)
022	30040	(fixed die)	(WD)
		30032XAHFD	

[BNC 005]

[BNC 006]

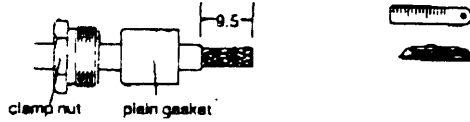
835H3DE010X33

835E60E010X33

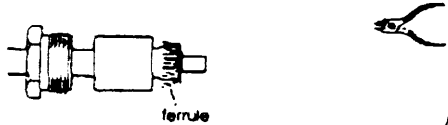
Assembly instructions

Instruction (a)

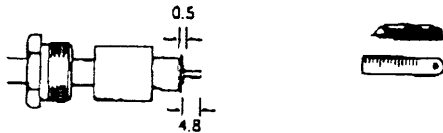
- 1 Slide clamp nut and plain gasket over cable and trim outer sheath from cable, as shown.



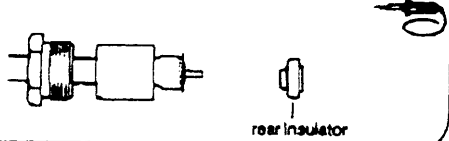
- 2 Fold back braid and push ferrule over dielectric to trap braid between outer sheath and ferrule. Trim off surplus braid.



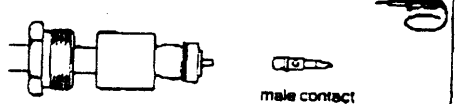
- 3 Trim back dielectric and check the length of the protruding centre conductor.



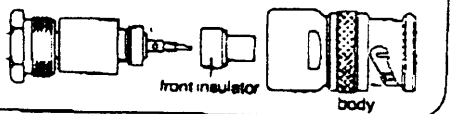
- 4 Tin centre conductor, then slide rear insulator over dielectric, to butt against ferrule.



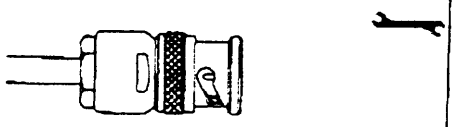
- 5 Fit contact (male for plugs, female for jacks) onto centre conductor, with collar pressed into recess in rear insulator. Hold cable and contact tightly together, and solder.



- 6 Slide plain gasket and clamp nut up to ferrule, trapping braid. Fit front insulator over contact to butt against rear insulator and press sub-assembly into body as far as possible.



- 7 Engage and tighten clamp nut.

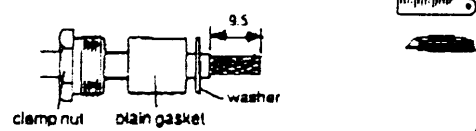


Note: a plug body is shown, but these instructions are relevant to both plugs and jacks. The shape of the contacts and insulators may vary from the drawings shown.

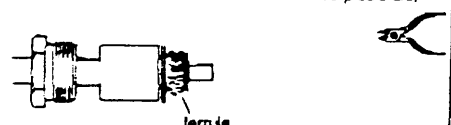
[BNC 001]

Instruction (b)

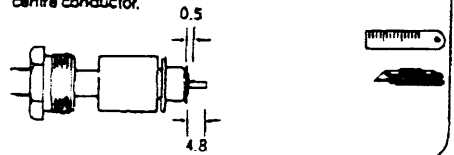
- 1 Slide clamp nut, plain gasket and washer over cable, trim outer sheath from cable as shown.



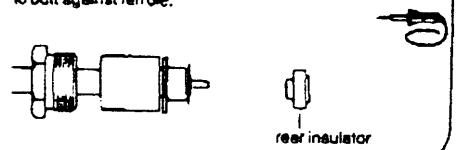
- 2 Fold back braid and push ferrule over dielectric to trap braid between outer sheath and ferrule. Trim off surplus braid.



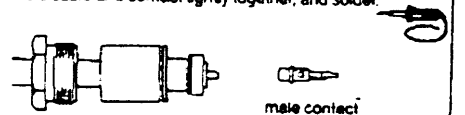
- 3 Trim back dielectric and check length of the protruding centre conductor.



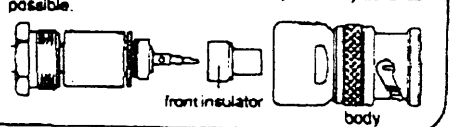
- 4 Tin centre conductor, then slide rear insulator over dielectric to butt against ferrule.



- 5 Fit contact (male for plugs, female for jacks) onto centre conductor, with collar pressed into recess in rear insulator. Hold cable and contact tightly together, and solder.



- 6 Slide washer, plain gasket and clamp nut up to ferrule, trapping braid. Fit front insulator over contact to butt against rear insulator and press sub-assembly into body as far as possible.



- 7 Engage and tighten clamp nut.



Note: a plug body is shown, but these instructions are relevant to both plugs and jacks. The characteristics of the contacts and insulators may vary from the drawings shown.

[BNC 002]