



## Introduction

Series BNC which are small bayonet-lock, coaxial connectors, are probably the most widely used of all.

The Greenpar range is particularly extensive, covering numerous different cable and chassis mounting styles, and including many U.S. MIL spec. types, as well as Post Office and Greenpar proprietary designs.

Greenpar Series BNC connectors are manufactured to ensure compatibility with the latest British Standard and IEC mating face requirements, and they are thus fully intermateable with connectors manufactured both to these specifications, and to U.S. Specification MIL-C-39012.

Connectors are available in both 50- and 75-ohm impedance versions for use with cables up to 9mm. diameter. Additionally, certain items can be supplied for use with larger cables.

In addition to the standard BNC range, details are also given of modified BNC connectors for high voltage use, and for 'push-on' mating.

Greenpar series BNC 50 ohm and 75 ohm connectors are intermateable.

## Performance

### Standard BNC

*VSWR (typical):* less than 1.2  
up to 4GHz

*Working voltage:* 500V peak

*Proof voltage:* 2000V peak

*Ambient temperature range:*  
-55°C to +150°C

### High voltage BNC

*VSWR (typical):* less than 1.4  
up to 4GHz

*Working voltage:* 3,000V peak

*Proof voltage:* 6,000V d.c. single  
connector; 10,000V d.c. mated pair

*Ambient temperature range:* -55°C  
to 150°C

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# BNC 50 ohm and 75 ohm series

## PLUGS AND JACKS

Connector outline	Dim		Assy. data	Greenpar Eng. No.		Cable clamp	Cable groups															
	A	B		50 ohm	75ohm		7	10	12	22	24	25	27	29	30	52	60	61	62	73	79	117
<b>PLUGS</b>																						
			15	35001		—																
			2	35001		C																
			15		35048*	—																
			1 or 16	35070		A or —																
			2	35070		C																
			1		37570	A																
			2		37570	C																
			16	35018		—																
			16		35019*	—																
			16		35047*	—																
	27.8																					
	31.0 14.3		2	35071		C																
	31.0 14.3		2		37571	C																
			11	35002		A																
			8	35002		C																
			11		37502	A																
			8		37502	C																

### ORDERING INFORMATION

To order, please specify GREENPAR ENGINEERING No., CABLE CLAMP and CABLE GROUP. e.g. GE 37570C12

### Notes.

\*1. These items are nominally 75 ohms. See U.G. numbers and assembly instructions for variations

Connector outline	Dim		Assy. data	Greenpar Eng. No.		Cable clamp	Cable groups															
	A	B		50 ohm	75ohm		7	10	12	22	24	25	27	29	30	52	60	61	62	73	79	117
<b>JACKS</b>																						
	11.1		15	35003		—																
	11.1		2	35003		C																
			16	35020		—																
			1 or 16	35060		A or —																
			2	35060		C																
			1		37560	A																
			2		37560	C																
			15		35021*	—																
			16		35022*	—																
			16		35037*	—																
			2	35061		C																
			2		37561	C																

### ORDERING INFORMATION

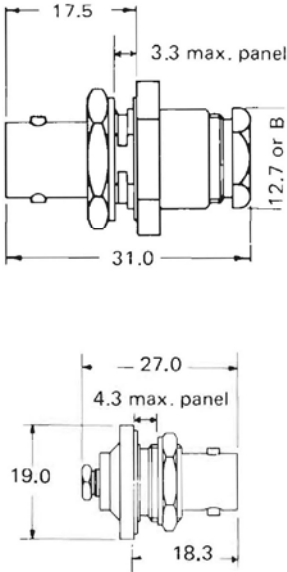
To order, please specify GREENPAR ENGINEERING No., CABLE CLAMP and CABLE GROUP. e.g. GE 37561C27.

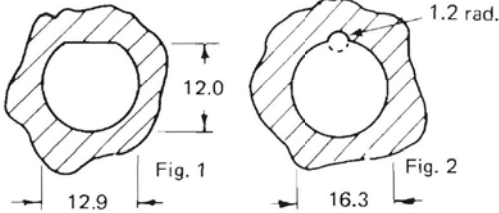
### Notes.

\*1. These items are nominally 75 ohms. See U.G. numbers and assembly instructions for variations

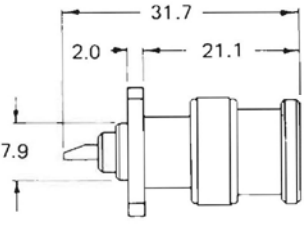
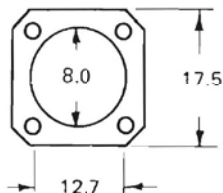
# BNC 50 ohm and 75 ohm series

## BULKHEAD JACKS

Connector outline	Dim		Assy data	Greenpar Eng. No.		Cable clamp	Cable groups																		
	A	B		50-ohm	75-ohm		7	10	12	22	24	25	27	29	30	52	60	61	62	73	79	117	119		
 <p>Note. For assembly of 35203, refer to SMB/SMC assembly instructions Fig.1</p>			16	35005		—																			
			11.2	2	35030		C																		
			14.3	2	35038		C																		
			14.3	2		37538	C																		
				1 or 16	35039		A or —																		
				2	35039		C																		
			11.2	1 or 16		37539	A or —																		
				2		37539	C																		
				16		35040*	—																		
				16		35050*	—																		

ORDERING INFORMATION	PANEL PIERCING	Notes.
To order, please specify GREENPAR ENGINEERING No., CLAMP and CABLE GROUP. e.g. GE 35005-10.		*1. These items are nominally 75 ohms. See U.G. numbers and assembly instructions for variations  *2. Nylon insulating bushes are available for items using panel cut-out Fig. 1. Order No. ST103842 (panel cut-out Fig. 2.)

## PANEL PLUGS

Connector outline	Greenpar Eng. No.	MOUNTING DETAILS	MOUNTING HOLES
	50-ohm 75-ohm  35086 37586		3 - 56 UNF - E 4 - 40 UNC - F 6 BA - G 3.0 mm. dia. - H 2.8 mm. dia. - K

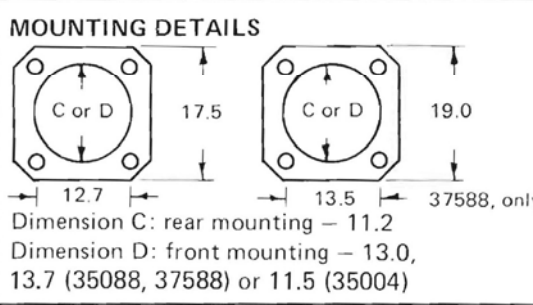
ORDERING INFORMATION
To order, please specify GREENPAR ENGINEERING No. and MOUNTING HOLE details. e.g. GE 37586G

# BNC 50 ohm and 75 ohm series

## PANEL JACKS

Connector outline	Dim		Assy. data	Greenpar Eng. No.		Cable clamp	Cable groups																			
	A	B		50 ohm	75ohm		7	10	12	22	24	25	27	29	30	52	60	61	62	73	79	117	119			
	28.5		15	35004		-																				
			2	35004		C																				
			15	35023*		-																				
			16	35025*		-																				
			16	35035*		-																				
			16	35024		-																				
			1 or 16	35057		A or -																				
			2	35057		C																				
			1 or 16	37557		A or -																				
			2	37557		C																				
2	37588	14.3 15.8	C																							
			35088		C																					

**ORDERING INFORMATION**  
 To order, please specify GREENPAR ENGINEERING No., CABLE CLAMP, CABLE GROUP and MOUNTING HOLE details e.g. GE 35057A10H



- MOUNTING HOLES**
- 3 - 56 UNF - E
  - 4 - 40UNC - F
  - 6BA - G
  - 3.0 mm. dia. - H
  - 2.8 mm. dia. - K

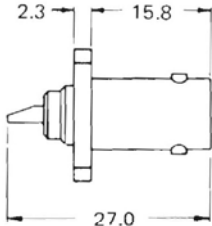
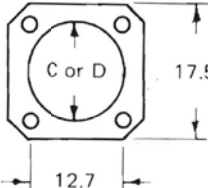
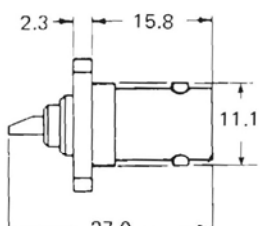
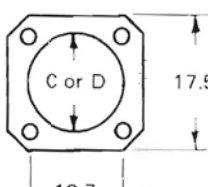
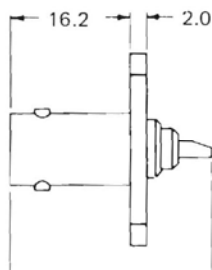
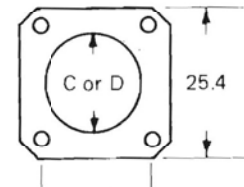
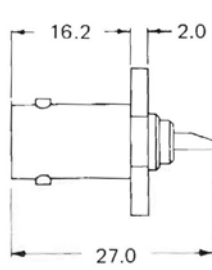
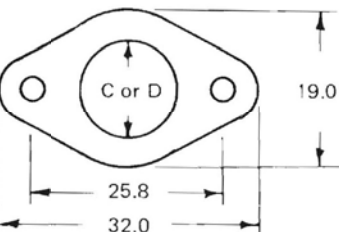
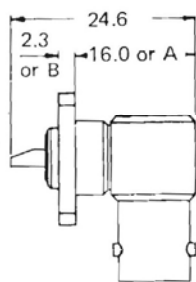
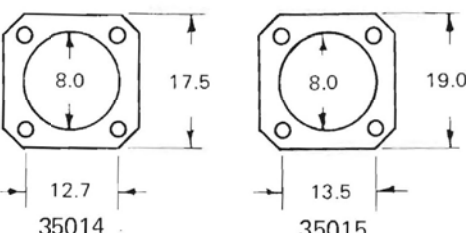
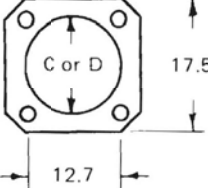
Notes.  
 \*1. These items are nominally 75 ohms. See U.G. numbers and assembly instructions for variations.

# BNC 50 ohm and 75 ohm series

## BULKHEAD SOCKETS

Connector outline	Dim			Greenpar 50-ohm	Eng. No. 75-ohm	PANEL PIERCING
	A	B	C			
	5.3			35026	37526	Fig. 2
				35027	37527	Fig. 2
				35029	37529	Fig. 3
				35063	37563	Fig. 5
	15.8	3.2		35066	37566	Fig. 4
	11.4			35084	37584	Fig. 1
				35166 <sup>6</sup>	37166 <sup>6</sup>	Fig. 2
				35183		Fig. 6 or 7 <sup>3</sup>
	14.3	7.4	13.7	35008 <sup>1</sup>	37508 <sup>1</sup>	Fig. 2
	12.7	9.2	12.0	35013	37513	Fig. 8
14.3	6.1	15.1	35041 <sup>1</sup>		Fig. 4	
12.7	9.2	12.0	35043 <sup>6</sup>		Fig. 6	
14.3	8.2	12.3	35062 <sup>7</sup>	37562 <sup>7</sup>	Fig. 7	
			35049 <sup>2</sup>	37549 <sup>2</sup>	Fig. 8	
			35009	37509	Fig. 9	

<p><b>ORDERING INFORMATION</b> To order, please specify GREENPAR ENGINEERING No. and, if solder tag required, suffix S. e.g. GE 37509S</p>	<p>Notes.</p> <ol style="list-style-type: none"> <li>1. Panel sealed items.</li> <li>2. Item 35049 is insulated from panel.</li> <li>3. Panel cut-out Fig. 7 is used when tab washer is to be omitted.</li> <li>4. Nylon insulating bushes are available for items using panel cut-out Fig. 2. Order No. ST100539 – panel cut out Fig. 8.</li> <li>5. All items can be supplied with a solder tag (see ordering information).</li> </ol>	<ol style="list-style-type: none"> <li>6. Flats on these connectors are at 90° to the bayonet pips.</li> <li>7. Panel insulated types, using nylon insulating bushes.</li> <li>8. Nylon insulating bushes are available for items using panel cut-out Fig. 1. Order No. ST103842 (panel cut-out Fig. 9.)</li> </ol>
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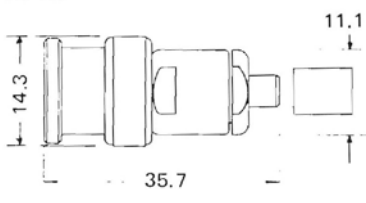
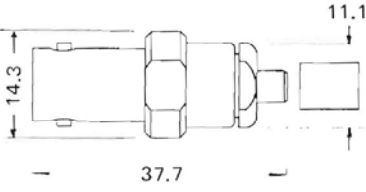
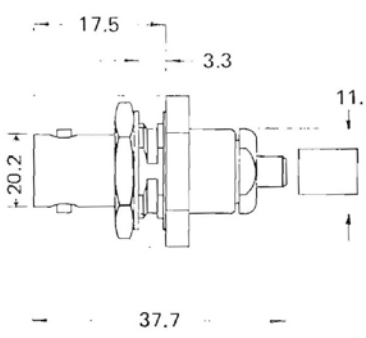
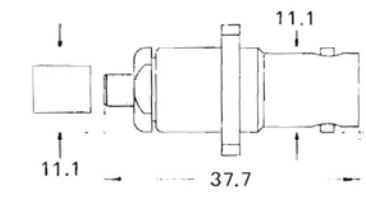
Connector outline	Dim. A B	Greenpar Eng. No. 50ohm 75ohm		MOUNTING HOLES
<b>PANEL SOCKETS</b>			<b>MOUNTING DETAILS</b>	
		35006 37506	 <p>Dimension C: rear mounting – 11.2 Dimension D: front mounting – 8.0</p>	3 - 56 UNF – E 4 - 40 UNC – F 6BA – G 3.0 mm. dia – H 2.8 mm dia. – K
		35007 37507	 <p>Dimension C: rear mounting – 11.2 Dimension D: front mounting – 8.0</p>	3 - 56 UNF – E 4 - 40 UNC – F 6BA – G 3.0 mm. dia – H 2.8 mm dia. – K
		35083 37583	 <p>Dimension C: rear mounting – 11.2 Dimension D: front mounting – 8.0</p>	3.2 mm. dia. – H 6 - 32 UNC – J 4.75 mm. dia. – L
		35085 37585	 <p>Dimension C: rear mounting – 11.2 Dimension D: front mounting – 8.0</p>	3.2 mm. dia. – H 6 - 32 UNC – J 4.75 mm. dia. – L
	17.0 1.25	35014 37514 35015	 <p>35014 37514</p>	3 - 56 UNF – E 4 - 40 UNC – F 6BA – G 3.0 mm. dia – H 2.8 mm dia. – K
<b>STRIPLINE SOCKET</b>		35065	 <p>Dimension C: rear mounting – 11.2 Dimension D: front mounting – 8.0 Socket contact on rear face to accept pin 1.35 mm dia.</p>	3 - 56 UNF – E 4 - 40 UNC – F 6BA – G 3.0 mm. dia – H 2.8 mm dia. – K

### ORDERING INFORMATION

To order, please specify GREENPAR ENGINEERING No. and MOUNTING HOLE details. e.g. GE 35083J

# Crimp connectors series BNC

## FULL CRIMP

Connector outline	Assy. data Fig.	Greenpar Eng. No.		Cable clamp	Cable groups						
		50-ohm	75-ohm		7	10	12	25	29	30	60
<b>PLUGS</b> 	5 5	35121	37121	D D							
<b>JACKS</b> 	5 5	35123	37123	D D							
<b>BULKHEAD JACKS</b> 	5 5	35125	37125	D D							
<b>PANEL JACKS</b> 	5 5	35124	37124	D D							

DIESET TO SUIT CRIMP TOOL GE 30039.

CODE GE 30030/XA HZH XA HFD XA XH XA XH XA HFD XA XED XA HFD

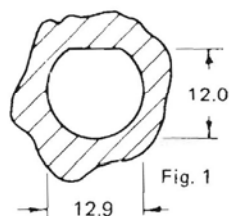
### ORDERING INFORMATION

To order, please specify GREENPAR ENGINEERING No., CABLE CLAMP (D) CABLE GROUP and, where relevant, MOUNTING HOLE CODE e.g. GE 37124D7H. For crimp tool, specify GE 30039.

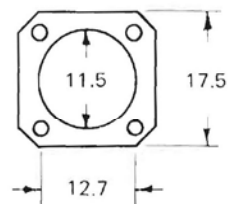
### Note.

- If insulating bushes are required see page 6 note 8.

### PANEL PIERCING FOR BULKHEAD JACKS



### MOUNTING DETAILS FOR PANEL JACKS



Dimension C: rear mounting – 11.5  
Dimension D: fronting mounting – 11.2

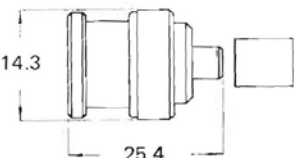
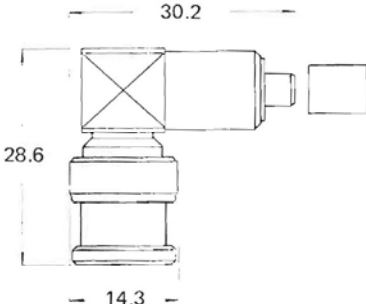
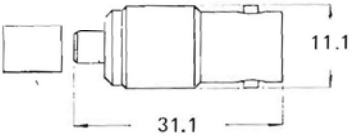
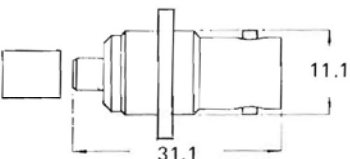
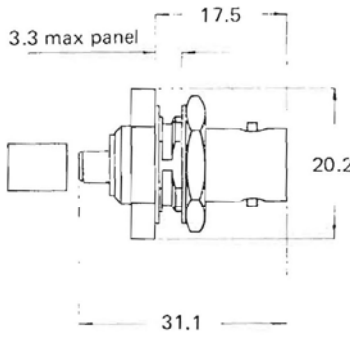
### MOUNTING HOLES

- 3 - 56 UNF – E
- 4 - 40 UNC – F
- 6 BA – G
- 3.0 mm. dia. – H
- 2.8 mm. dia. – K



# Crimp connectors series BNC

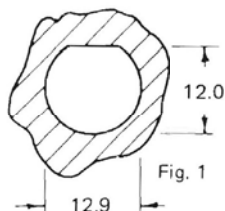
MIL CRIMP

Connector outline	Assy. data Fig.	Greenpar Eng. No.		Cable clamp	Cable groups								
		50ohm	75ohm		7	10	12	25	29	30	60		
<b>PLUGS</b> 	4 4 4	35141	37141 37241 <sup>1</sup>	D D D		•	•		•	•	•	•	
<b>ELBOW PLUGS</b> 	4 4 4	35228	37228 37242 <sup>1</sup>	D D D		•	•		•	•	•	•	
<b>JACKS</b> 	4 4 4	35143	37143 37243 <sup>1</sup>	D D D		•	•		•	•	•	•	
<b>PANEL JACKS</b> 	4 4 4	35144	37144 37244 <sup>1</sup>	D D D		•	•		•	•	•	•	
<b>BULKHEAD JACKS</b> 	4 4 4	35145	37145 37245 <sup>1</sup>	D D D		•	•		•	•	•	•	
DIESET TO SUIT CRIMP TOOL GE 30039.		GE30032/XA HZG XA HFD XA XH XA XH XA HFD XA XED XA HFD											

### ORDERING INFORMATION

To order, please specify GREENPAR ENGINEERING No., CABLE CLAMP (D) and CABLE GROUP. e.g. GE 37145D.7. For crimp tool, specify GE 30039; for crimp dies, specify GE 30032 and relevant code. e.g. GE 30032/XA HZG

### PANEL PIERCING FOR BULKHEAD JACKS



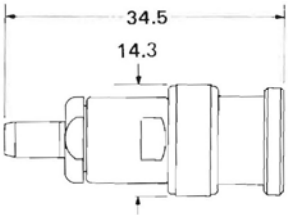
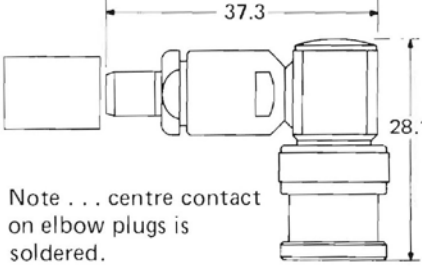
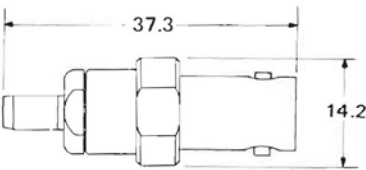
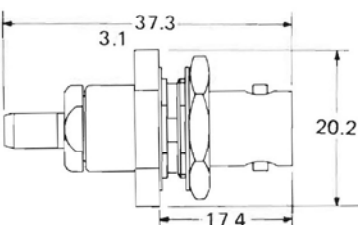
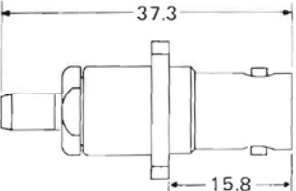
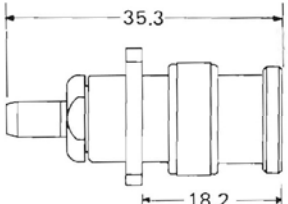
See note 2.

### Note

1. These are special designs for use with RG62 and URM 96 semi air spaced cables but will also accept solid dielectric cables (eg. RG59). Standard MIL-crimp connectors accept solid dielectric types only.
2. If insulating bushes are required see page 6 note 8.

# Crimp connectors series BNC

## POST OFFICE CRIMP – POST OFFICE PATTERN (31)

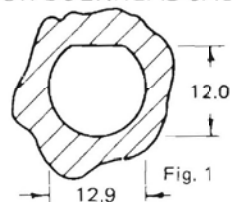
Connector outline	Assy data Fig.	Greenpar Eng. No. 50-ohm 75-ohm	Cable clamps	Cable groups				
				30	61	62	117	167
<b>PLUGS</b> 	13	37191	D					
<b>ELBOW PLUGS</b>  <p>Note . . . centre contact on elbow plugs is soldered.</p>	14	37192	D					
<b>JACKS</b> 	13	37193	D					
<b>BULKHEAD JACKS</b> 	13	37195	D					
<b>PANEL JACKS</b> 	13	37194	D					
<b>PANEL PLUGS*</b> 	13	37199	D					
		GE30030		XX XEA	XX XZ	XX X1A	XX XW	XX XY

### ORDERING INFORMATION

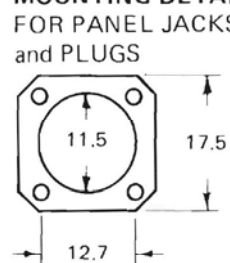
To order, please specify GREENPAR ENGINEERING No., CABLE CLAMP (D), CABLE GROUP, and, if relevant, MOUNTING HOLE details. e.g. GE37194D30G. For crimp tool, specify GE30039; for crimp dies, specify GE30030 and relevant code. e.g. GE30030/XX XEA.

\* Item 37199 is available with 3.00 mm. dia. mounting holes only, suffix H.

### PANEL PIERCING FOR BULKHEAD JACKS



### MOUNTING DETAILS FOR PANEL JACKS and PLUGS

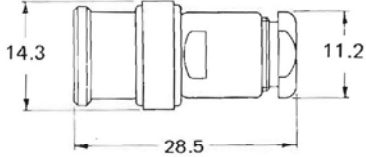
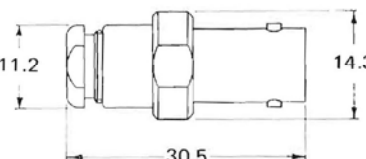
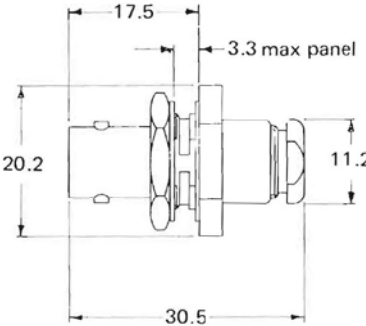
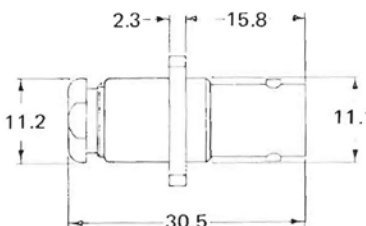


### MOUNTING HOLES

3 - 56 UNF - E  
 4 - 40 UNC - F  
 6 BA - G  
 3.0 mm. dia. - H  
 2.8 mm. dia. - K

# Crimp connectors series BNC

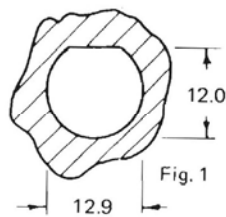
## BRAID CLAMP/CONTACT CRIMP

Connector outline	Assy. data Fig.	Greenpar Eng. No. 50 ohm 75 ohm	Cable clamp	Cable groups						
				7	10	12	25	29	30	60
<b>PLUGS</b> 	3 3	35070 37570	D D							
<b>JACKS</b> 	3 3	35060 37560	D D							
<b>BULKHEAD JACKS</b> 	3 3	35039 37539	D D							
<b>PANEL JACKS</b> 	3 3	35057 37557	D D							

### ORDERING INFORMATION

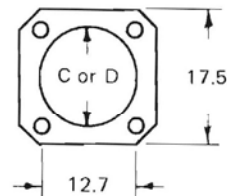
To order, please specify GREENPAR ENGINEERING No., CABLE CLAMP, CABLE GROUP and, if relevant, MOUNTING HOLE details. GE35057D10G. For crimp tool, specify Burndy No. MIOS-1; with head - 57/BNC/1; and stop, ref. BNC/1. Or use Greenpar crimp tool GE30039 with any XA dieset.

### PANEL PIERCING FOR BULKHEAD JACKS



See note 1.

### MOUNTING DETAILS FOR PANEL JACKS



Dimension C: rear mounting - 11.2  
Dimension D: front mounting - 11.2

### MOUNTING HOLES

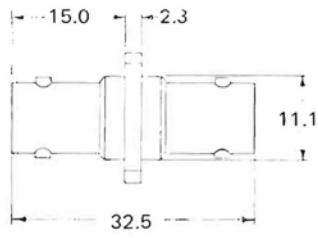
3 - 56 UNF - E  
4 - 40 UNC - F  
6BA - G  
3.0 mm. dia. - H  
2.8 mm. dia. - K

### Note.

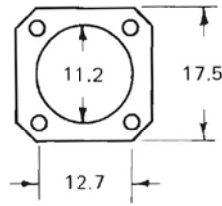
1. If insulating bushes are required for Bulkhead items see page 6 note 8.

## ADAPTORS

**PANEL STRAIGHT ADAPTOR**  
50 ohm: GE 35081. 75 ohm: GE 37581



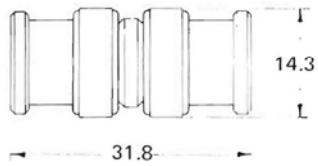
### MOUNTING DETAILS



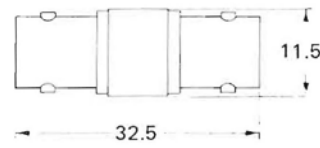
### MOUNTING HOLES

- 3 - 36 UNF - E
- 4 - 40 UNC - F
- 6BA - G
- 3.0 mm. dia. - H
- 2.8 mm. dia. - K

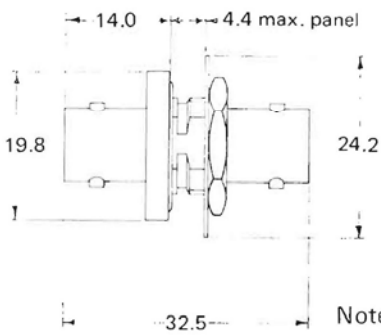
**STRAIGHT ADAPTOR**  
50 ohm: GE 35032. 75 ohm: GE 37532



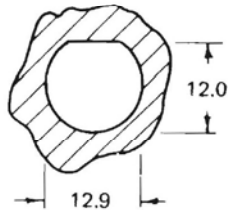
**STRAIGHT ADAPTOR**  
50 ohm: GE 35034. 75 ohm: GE 37534



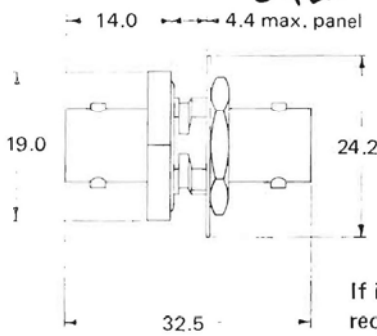
**BULKHEAD STRAIGHT ADAPTOR**  
50 ohm: GE 35053. 75 ohm: GE 37553



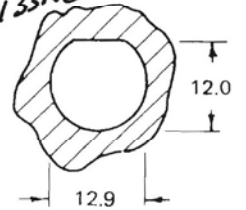
### PANEL PIERCING



**BULKHEAD STRAIGHT ADAPTOR**  
50 ohm: GE 35054. 75 ohm: GE 37554

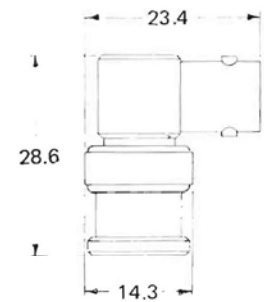


### PANEL PIERCING

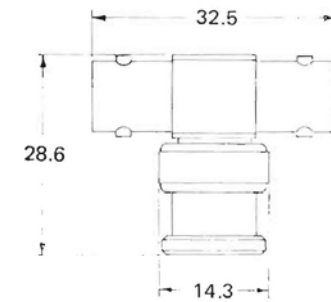


If insulating bushes are required see page 6 note 8.

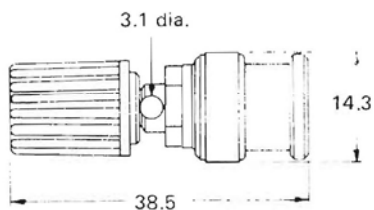
**ELBOW ADAPTOR**  
50 ohm: GE 35028. 75 ohm: GE 37528



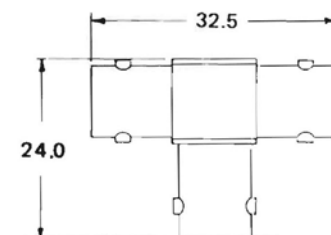
**T-ADAPTOR**  
50 ohm: GE 35031. 75 ohm: GE 37531



**BINDING POST ADAPTOR: GE 35011**



**T-ADAPTOR 50 ohm: GE 35096**



### ORDERING INFORMATION

To order, please specify GREENPAR ENGINEERING NO. and MOUNTING HOLE details. e.g. GE 35081K

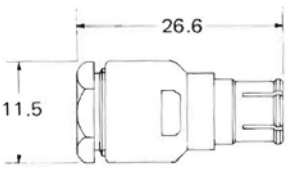
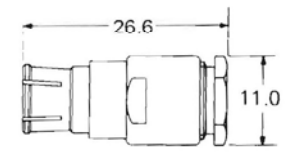
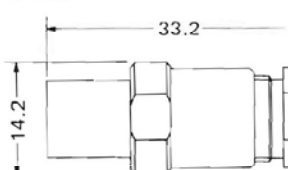
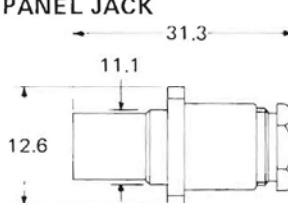
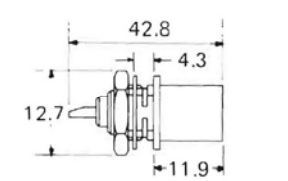
Connector outline	Greenpar Eng. No.	G.P.O. type No.
<b>SOCKETS</b> 	37174/PO4C	End Sealing 4C
	37177/PO3D	End Sealing 3D
<b>ORDERING INFORMATION</b> To order, please specify GREENPAR ENGINEERING No., only. e.g. GE 37177/PO3D.		

### CONNECTORS FOR LARGE CABLES

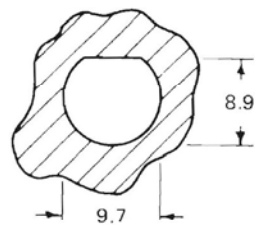
Connector outline	Assy. data Fig.	Greenpar Eng. No.		Cable clamp	Cable group	
		50 ohm	75 ohm		1	4
<b>PLUGS</b> 	7	35103		C		
<b>BULKHEAD JACK</b> 	7	35079		C		
<b>ORDERING INFORMATION</b> To order, please specify GREENPAR ENGINEERING No., CABLE CLAMP and CABLE GROUP. e.g. GE 35079C1		<b>PANEL PIERCING</b> 				

# BNC miscellaneous

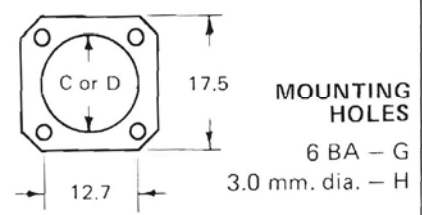
## PUSH-ON CONNECTORS

Connector outline	Dim A B	Assy data Fig.	Greenpar Eng. No.		Cable clamp	Cable groups																
			50 ohm	75 ohm		7	10	12	22	24	25	27	29	30	52	60	61	62	73	79	117	119
<b>PLUG</b> 	11.0 26.5	4	35670		C	7	10	12	22	24	25	27	29	30	52	60	61	62	73	79	117	119
4		37670																				
		4	35601		C	7	10	12	22	24	25	27	29	30	52	60	61	62	73	79	117	119
<b>JACK</b> 		4	35660		C	7	10	12	22	24	25	27	29	30	52	60	61	62	73	79	117	119
<b>PANEL JACK</b> 		4	35657		C	7	10	12	22	24	25	27	29	30	52	60	61	62	73	79	117	119
<b>BULKHEAD SOCKET</b> 			35627	37627																		

### PANEL PIERCING



### MOUNTING DETAILS

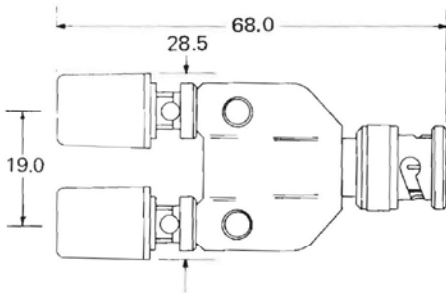
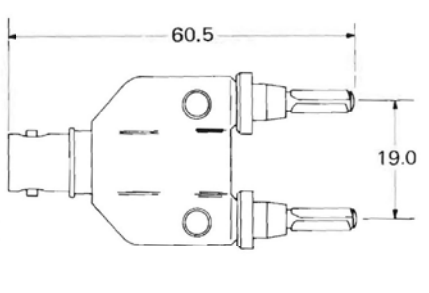
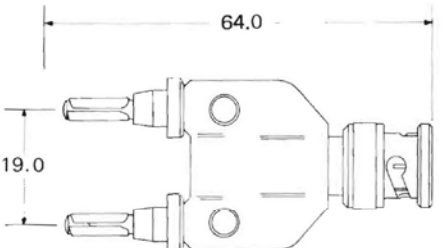
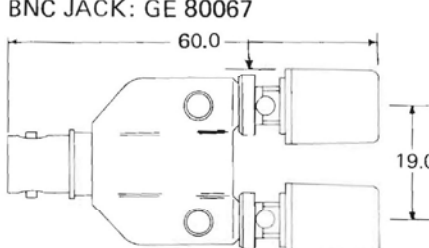


Dimension C: rear mounting – 11.2  
 Dimension D: front mounting – 13.0

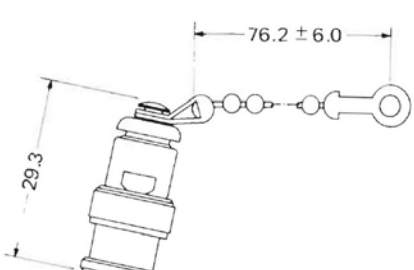
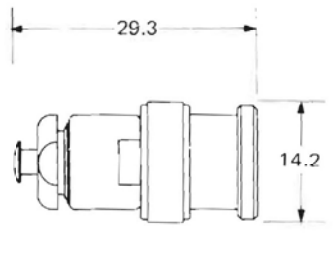
This range of connectors is a push-on version of the BNC range. There is no separate coupling mechanism; mating is achieved simply by pushing the two items together. An internal groove in the socket items provides a click-in feature. Push-on plugs will also mate with standard BNC sockets.

### ORDERING INFORMATION

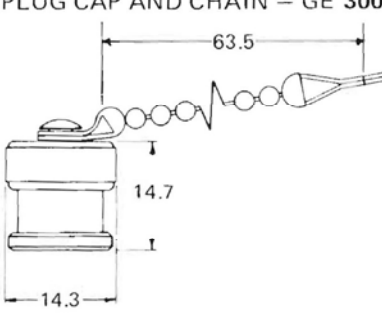
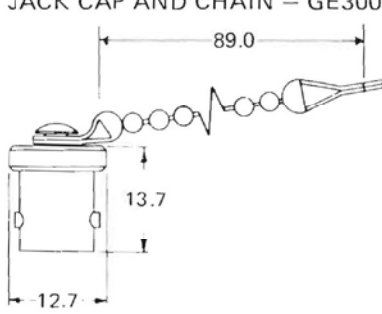
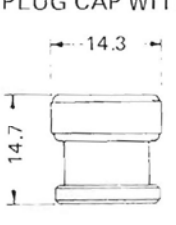
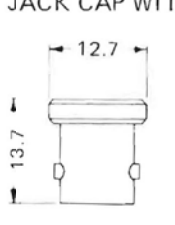
To order, please specify GREENPAR ENGINEERING No., CABLE CLAMP, CABLE GROUP and, if relevant, MOUNTING HOLE details. e.g. GE 35657C10H.

<p>x 2 BINDING POSTS AND 4mm. SOCKETS TO BNC PLUG: GE 80060.</p> 	<p>2 x 4mm. PLUGS TO BNC JACK: GE 80066</p> 
<p>2 x 4mm. PLUGS TO BNC PLUG: GE 80068</p> 	<p>x 2 BINDING POSTS AND 4mm. SOCKETS TO BNC JACK: GE 80067</p> 

TERMINATIONS

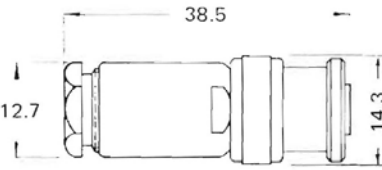
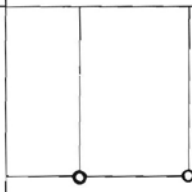
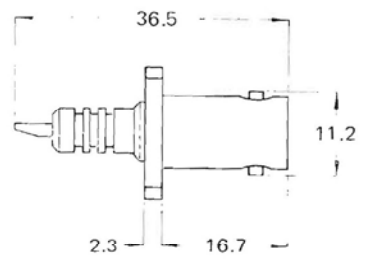
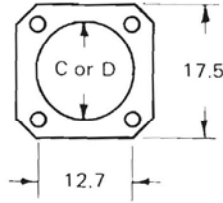
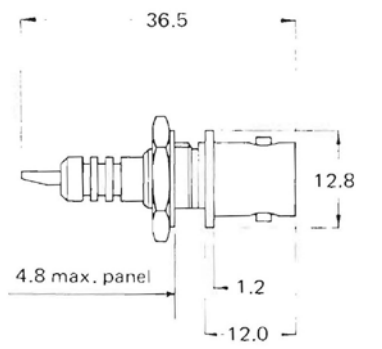
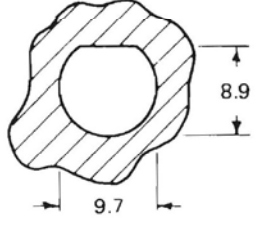
<p><b>RESISTOR PLUG AND CHAIN –</b> 50 ohm: GE 35010/50R. 75 ohm: GE 35010/75R.</p>  <p>For other standard values of resistor, quote: e.g. GE 35010/1k2</p>	<p><b>TERMINATION WITH RESISTOR AND NO CHAIN –</b> 50 ohm: GE 35033/50R. 75 ohm: GE 35033/75R.</p>  <p>For other standard values of resistor, quote: e.g. GE 35033/1k2</p>
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PROTECTIVE CAPS

<p><b>PLUG CAP AND CHAIN – GE 30001</b></p> 	<p><b>JACK CAP AND CHAIN – GE30003</b></p> 
<p><b>PLUG CAP WITHOUT CHAIN – GE30002</b></p> 	<p><b>JACK CAP WITHOUT CHAIN – GE 30004</b></p> 

# High voltage BNC

## PLUG, PANEL SOCKET AND BULKHEAD SOCKET

Connector outline	Assy. data	Greenpar Eng. No. 50 ohm 75 ohm	Cable clamp	Cable groups												
				7	10	12	24	25	27	29	30	52	60	61	62	73
<b>PLUG</b> 	12	31001	C													
<b>PANEL SOCKET</b> 		31006H*		<b>MOUNTING DETAILS</b>  <p>Dimension C: rear mounting – 11.2 Dimension D: front mounting – 8.2</p>												
<b>BULKHEAD SOCKET</b> 		31008		<b>PANEL PIERCING</b> 												

### ORDERING INFORMATION

To order, please specify GREENPAR ENGINEERING No, and, if relevant, CABLE CLAMP (C) and CABLE GROUP, e.g. GE31001C25.

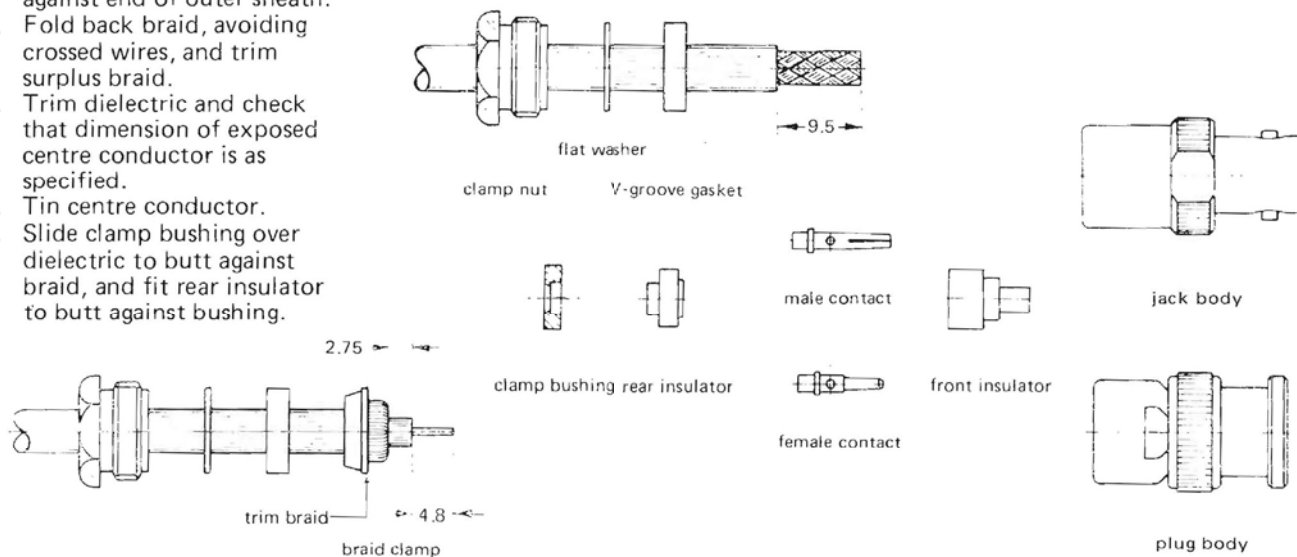


**Fig. 1. Plugs and jacks: captive contact, improved UG style braid clamp**

1. Place clamp nut, flat washer (when provided) and V-groove gasket over cable. Note that groove in gasket is towards free end of cable.
2. Trim outer sheath from cable to dimension shown.
3. Fit braid clamp so that internal shoulder butts against end of outer sheath.
4. Fold back braid, avoiding crossed wires, and trim surplus braid.
5. Trim dielectric and check that dimension of exposed centre conductor is as specified.
6. Tin centre conductor.
7. Slide clamp bushing over dielectric to butt against braid, and fit rear insulator to butt against bushing.

8. Fit contact (male for plugs; female for jacks) over centre conductor, to butt against rear insulator.
9. Hold contact and cable firmly together, and solder.
10. Slide V-groove gasket, flat washer (when provided) and clamp nut to braid clamp.

11. Fit front insulator over contact to butt against rear insulator.
12. Press sub-assembly into body as far as possible, and engage clamp nut.
13. Holding body and cable rigid, tighten clamp nut to shear V-groove gasket.



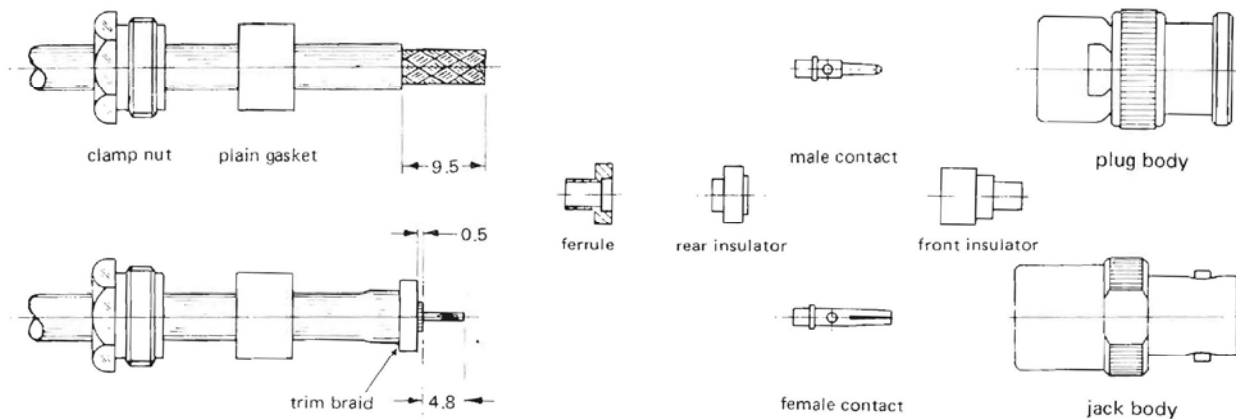
**Fig. 2. Plugs and jacks: captive contact, pressure sleeve cable clamp**

For C73 refer to Fig. 9.

1. Slide clamp nut and plain gasket over cable.
2. Trim outer sheath from cable, as indicated.
3. Fold back braid, and insert ferrule over dielectric to trap braid between outer sheath and ferrule.
4. Trim off surplus braid.
5. Trim back dielectric and check that dimension of protruding centre conductor is as indicated.

6. Tin centre conductor.
7. Slide rear insulator over dielectric, to butt against ferrule.
8. Fit contact (male for plugs; female for jacks) on centre conductor, with shoulder pressed into recess in rear insulator.
9. Hold cable and contact tightly together, and solder.

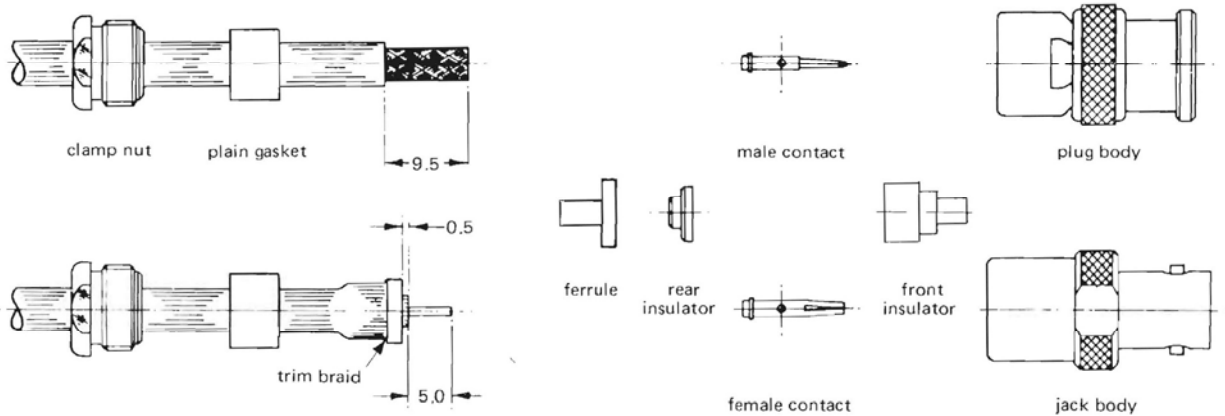
10. Slide plain gasket and clamp nut up to ferrule, trapping braid.
11. Fit front insulator over contact to butt against rear insulator.
12. Press sub-assembly into body as far as possible.
13. Engage and tighten clamp nut.



# Assembly instructions

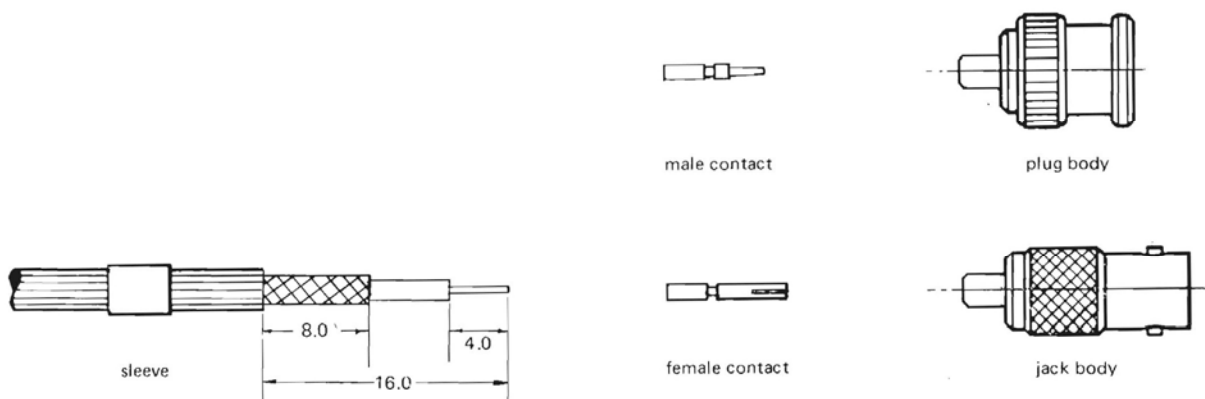
**Fig. 3. Plugs and jacks: captive crimp contact, pressure sleeve cable clamp**

1. Slide clamp nut and plain gasket over cable.
2. Trim outer sheath from cable, as indicated.
3. Fold back braid, and insert ferrule over dielectric to trap braid between outer sheath and ferrule.
4. Trim off surplus braid.
5. Trim back dielectric and check that dimension of protruding centre conductor is as indicated.
6. Slide rear insulator over dielectric, to butt against ferrule.
7. Fit contact (male for plugs; female for jacks) on centre conductor, with shoulder pressed into recess in rear insulator.
8. Insert sub-assembly into crimping tool, so that contact is located in centre hole, and rear insulator fits in clearance hole in tool.
9. Hold sub-assembly rigid and crimp securely.
10. Slide plain gasket and clamp nut to ferrule, trapping braid.
11. Fit front insulator over contact to butt against rear insulator.
12. Press sub-assembly into body as far as is possible.
13. Engage and tighten clamp nut.



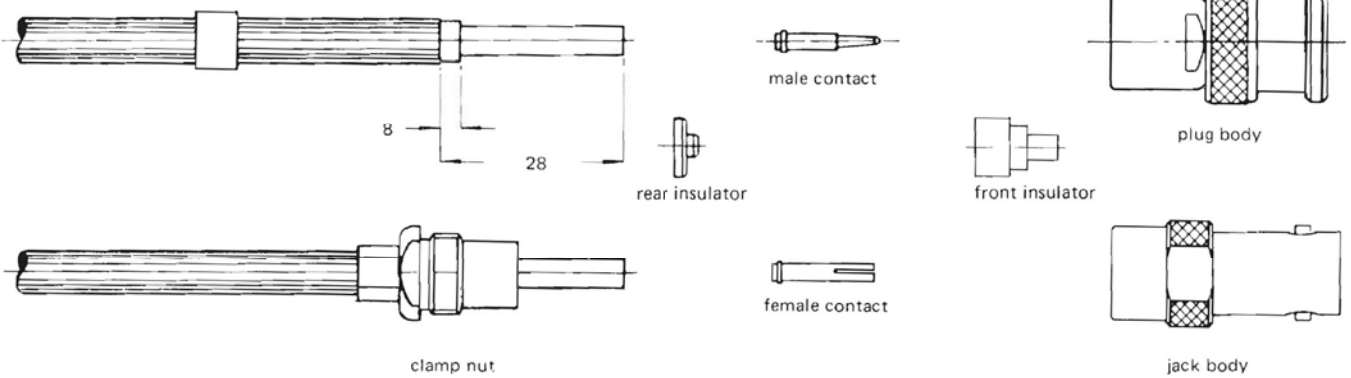
**Fig. 4. Plugs and jacks: captive contact, MIL crimp**

1. Place sleeve over cable.
2. Trim back outer sheath, braid and dielectric to dimensions indicated.
3. Fit contact over centre conductor to butt against cable dielectric; then crimp.
4. Press sub-assembly into body, ensuring that ferrule is inserted between dielectric and braid.
5. Slide sleeve along cable, until it butts against ferrule shoulder; then crimp.



**Fig. 5. Plugs and jacks: captive contact, full crimp**

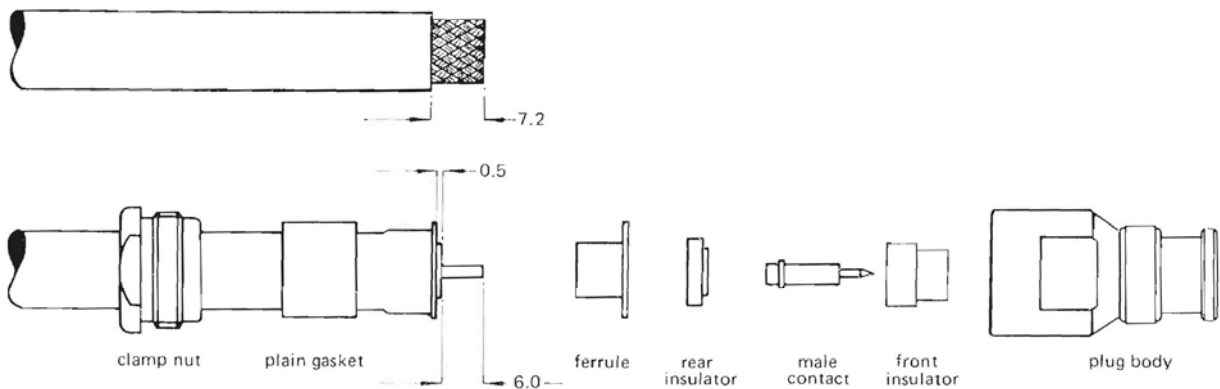
1. Place sleeve over cable.
2. Trim back outer sheath and braid to dimensions indicated.
3. Place clamp nut over dielectric to butt against outer sheath face, ensuring that knurled portion of clamp nut is positioned between dielectric and braid.
4. Slide sleeve over outer sheath and braid until it butts against clamp nut face.
5. Crimp sleeve, ensuring that crimp tool head butts against clamp nut.
6. Trim dielectric flush with clamp nut face.
7. Slide rear insulator over centre conductor and into clamp nut recess, until rear insulator face butts against clamp nut face.
8. Fit contact onto centre conductor, until shoulder butts against rear insulator face. If necessary trim centre conductor slightly to achieve this.
9. Press contact hard against tool head stop, and crimp contact onto centre conductor.
10. Fit front insulator over contact to butt against rear insulator.
11. Press sub-assembly into body.
12. Engage and tighten clamp nut.



# Assembly instructions

**Fig. 7. Pressure sleeve cable clamp, captive centre contact (for large cables)**

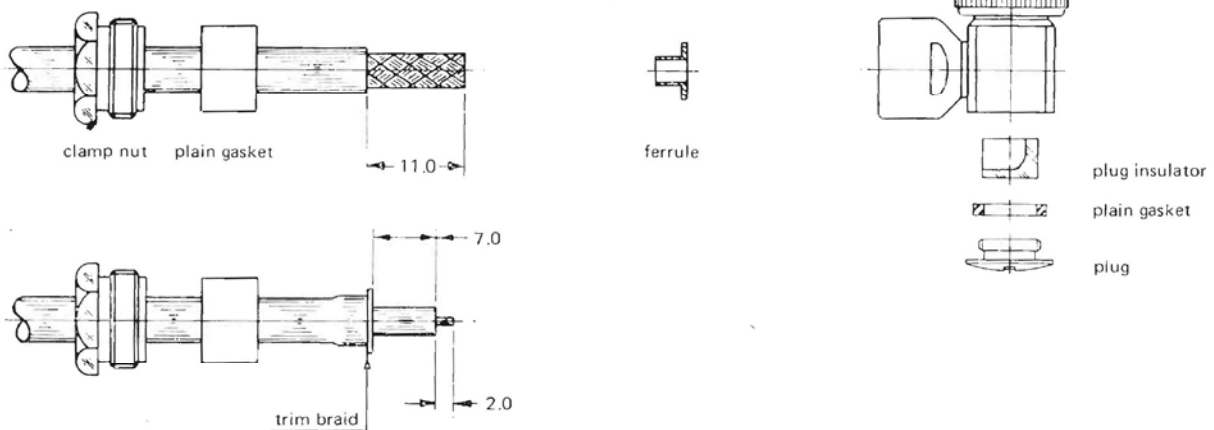
1. Place clamp nut and plain gasket over cable.
2. Trim outer sheath from cable to dimension shown.
3. Fold back braid and insert ferrule to trap braid between outer sheath and ferrule.
4. Trim off surplus braid as shown.
5. Trim dielectric to dimension shown, and check that exposed centre conductor length is as specified.
6. Tin centre conductor.
7. Slide rear insulator over dielectric to butt against ferrule.
8. Mount contact (male for plugs; female for jacks) over centre conductor with shoulder pressed against rear insulator.
9. Hold cable and contact firmly together, and solder.
10. Slide plain gasket and clamp nut up to ferrule, trapping braid.
11. Fit front insulator over contact to butt against rear insulator.
12. Press sub-assembly into body as far as is possible, and engage clamp nut.
13. Holding body and cable rigid, tighten clamp nut to compress plain gasket and retain cable.



**Fig. 8. Elbow plugs: captive contact, pressure sleeve cable clamp**

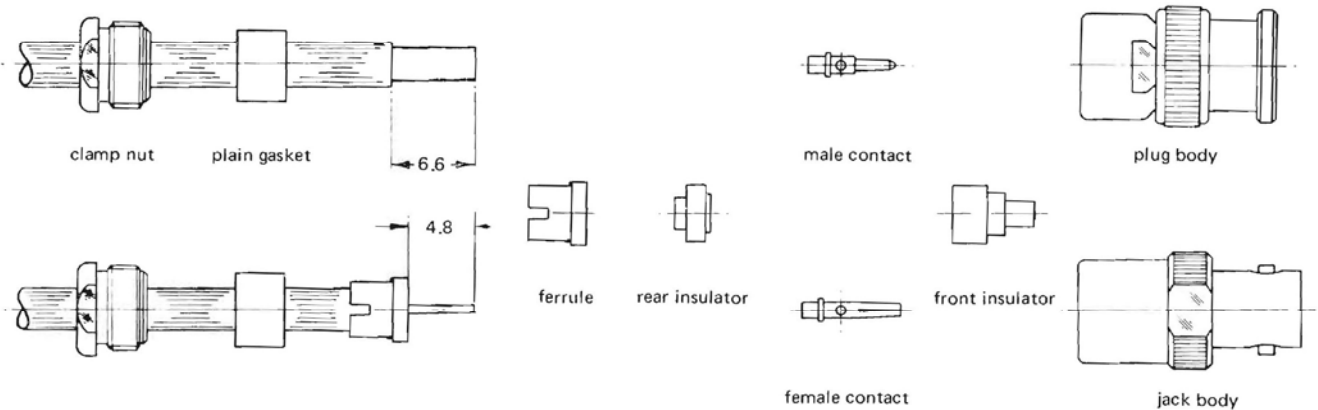
1. Slide clamp nut and plain gasket over cable.
2. Trim outer sheath from cable, as indicated.
3. Fold back braid, and insert ferrule over dielectric to trap braid between outer sheath and ferrule.
4. Trim off surplus braid.
5. Trim back dielectric and check that dimension of protruding centre conductor is as indicated.
6. Tin centre conductor.
7. Ensure that slot in contact is positioned to receive cables.
8. Slide plain gasket and clamp nut to ferrule, trapping braid.
9. Press sub-assembly into body as far as possible.
10. Engage and tighten clamp nut.
11. Solder centre conductor into slot in contact.
12. Fit plug insulator and plain gasket, and secure plug.

For C73 refer to Fig.10



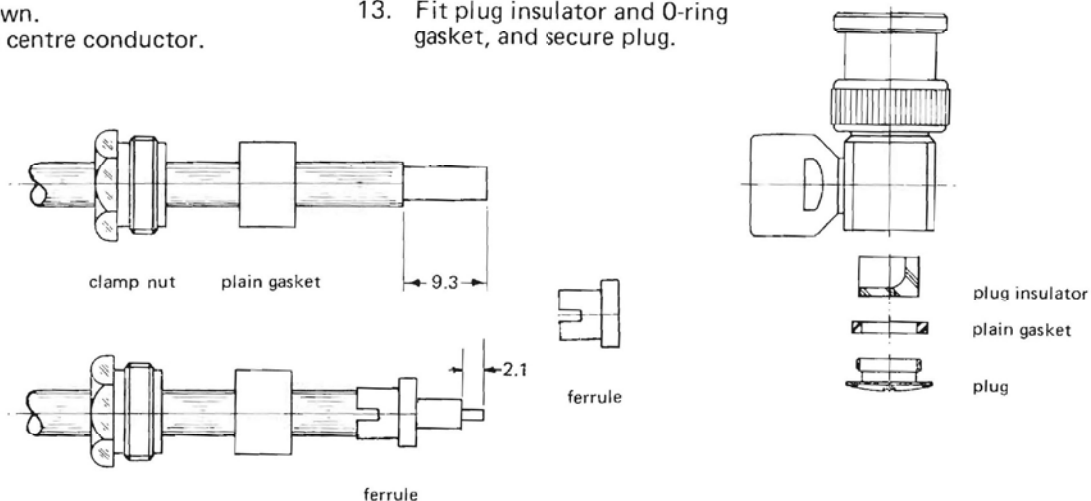
**Fig. 9. Plugs, captive contact, semi-rigid cable**

1. Place clamp nut and plain gasket or metal sleeve over outer conductor.
2. Trim outer sheath from cable to dimension shown.
3. Fit ferrule over outer conductor, until conductor butts against internal step of ferrule.
4. Solder ferrule in this position to outer conductor.
5. Trim dielectric flush with face of ferrule.
6. Tin centre conductor.
7. Slide rear insulator over dielectric to butt against ferrule.
8. Place contact onto centre conductor, with collar pressed into recess in rear insulator.
9. Holding contact and cable tightly together, solder securely.
10. Slide gasket or metal sleeve and clamp nut up to ferrule.
11. Fit front insulator over contact to butt against rear insulator.
12. Press sub-assembly into body as far as possible and engage clamp nut.
13. Holding body and cable rigid, tighten clamp nut firmly.



**Fig. 10. Elbow plugs, captive contact, semi-rigid cable**

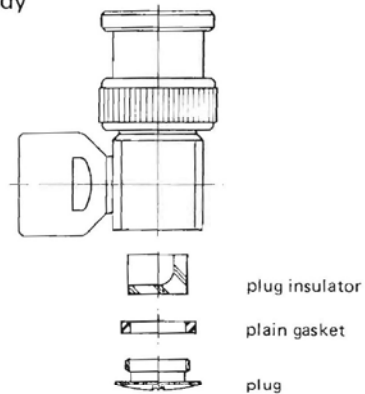
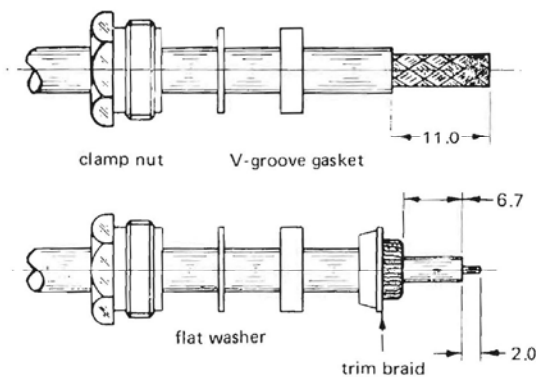
1. Cut back outer conductor of cable to dimension shown.
2. Slide clamp nut and plain gasket or metal sleeve over outer conductor.
3. Tin outer sheath.
4. Slide ferrule over outer sheath, until sheath bottoms inside ferrule.
5. Solder ferrule to outer sheath.
6. Trim dielectric to dimension shown.
7. Tin centre conductor.
8. Ensure that contact is positioned to receive cable.
9. Slide gasket or metal sleeve and clamp nut up to ferrule.
10. Press sub-assembly into body as far as possible, and engage clamp nut.
11. Holding body and cable rigid, tighten clamp nut to retain cable.
12. Solder centre conductor into slot in contact.
13. Fit plug insulator and O-ring gasket, and secure plug.



# Assembly instructions

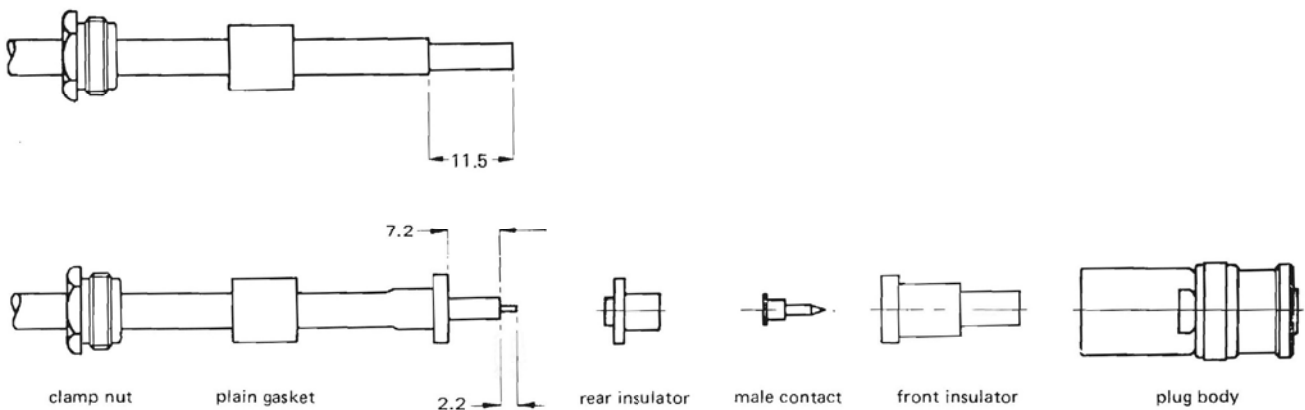
**Fig. 11. Elbow plugs: captive contact, improved UG style braid clamp**

1. Place clamp nut, flat washer (when provided) and V-groove gasket over cable. Note that groove in gasket is towards free end of cable.
2. Trim outer sheath from cable, as indicated.
3. Fit braid clamp so that internal shoulder butts against end of outer sheath.
4. Fold back braid, avoiding crossed wires, and trim surplus braid.
5. Trim dielectric and check that dimension of exposed centre conductor is as specified.
6. Tin centre conductor.
7. Ensure that slot in contact is positioned to receive cable.
8. Slide V-groove gasket, flat washer and clamp nut up to braid clamp, ensuring that V-groove washer seats on clamp.
9. Press sub-assembly into body as far as possible.
10. Engage and tighten clamp nut. For this operation, hold body and cable rigid, and tighten clamp nut to shear V-groove gasket.
11. Solder centre conductor into slot in contact.
12. Fit plug insulator and plain gasket, and secure plug.



**Fig. 12. Series BNC high voltage plugs: captive contact, pressure sleeve cable clamp**

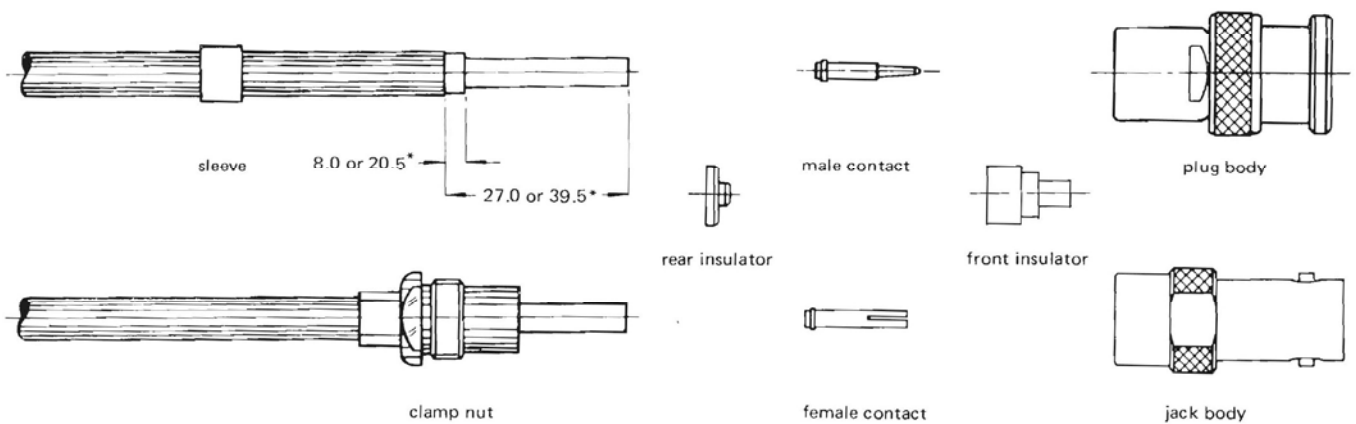
1. Slide clamp nut and plain gasket over cable.
2. Trim outer sheath from cable, as indicated.
3. Fold back braid, and insert ferrule over dielectric to trap braid between outer sheath and ferrule.
4. Trim off surplus braid.
5. Trim back dielectric and check that dimension of protruding centre conductor is as indicated.
6. Tin centre conductor.
7. Slide rear insulator over dielectric, to butt against ferrule.
8. Fit contact over centre conductor, to butt against rear insulator.
9. Hold cable and contact tightly together, and solder.
10. Slide plain gasket and clamp nut up to ferrule, trapping braid
11. Fit front insulator over contact to butt against rear insulator.
12. Press sub-assembly into body as far as possible.
13. Engage and tighten clamp nut.



**Fig. 13. Plugs and Jacks: captive contact, P.O. crimp**

1. Place rubber sleeve\* over cable.
2. Trim back outer sheath and braid to dimensions indicated.
3. Place crimp sleeve over cable.
4. Place clamp nut over dielectric until braid butts against clamp nut shoulder, ensuring that knurled portion of clamp nut is positioned between dielectric and braid.
5. Crimp sleeve, ensuring that crimp tool head butts against clamp nut.
6. Trim dielectric flush with clamp nut face.
7. Slide rear insulator over centre conductor and into clamp nut recess, until rear insulator face butts against clamp nut face.
8. Fit contact onto centre conductor, until shoulder butts against rear insulator face. If necessary trim centre conductor slightly to achieve this.
9. Press contact hard against tool head stop, and crimp contact onto centre conductor.
10. Press sub-assembly into body.
11. Engage and tighten clamp nut.
12. Slide rubber sleeve\* forward to cover crimp sleeve and joint.

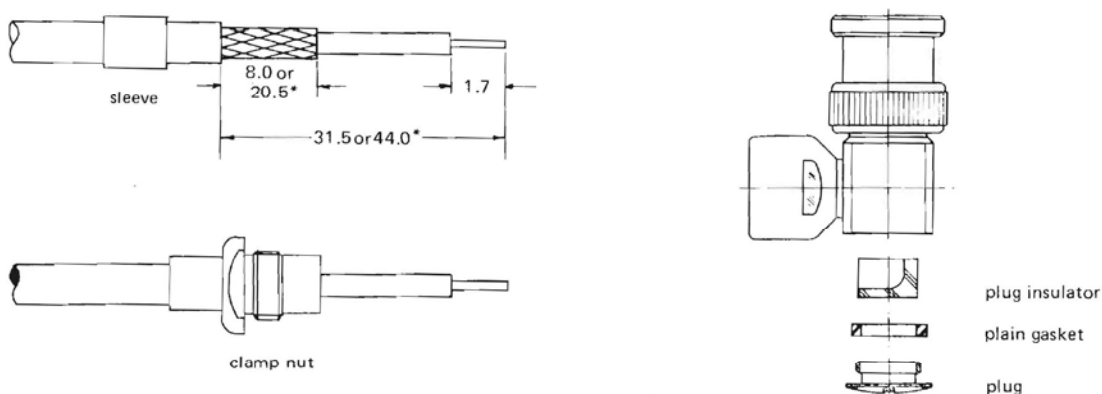
\*D167 only



**Fig. 14. Elbow plugs, P.O. crimp**

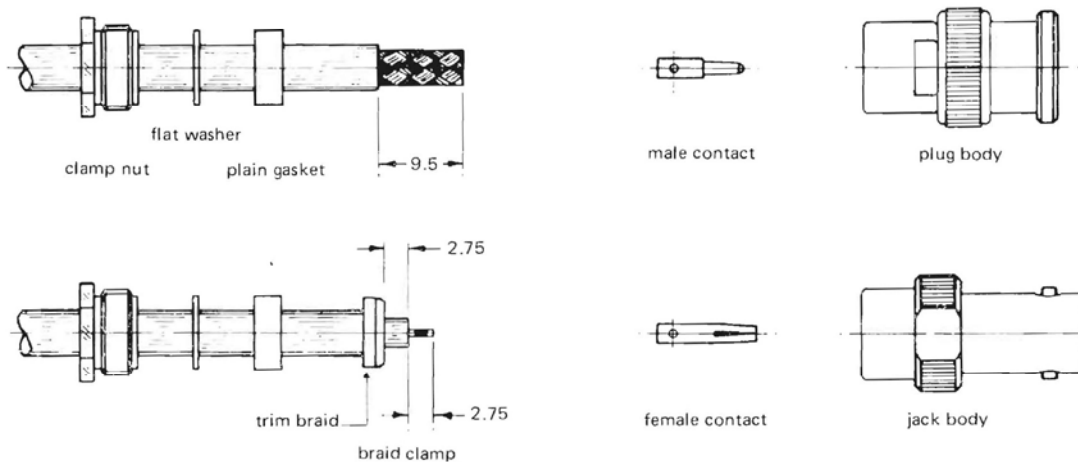
1. Place rubber sleeve\* over cable.
2. Trim outer sheath, braid and dielectric to dimensions shown.
3. Place crimp sleeve over cable.
4. Place clamp nut over dielectric to butt against outer sheath face, ensuring that knurled portion of clamp nut is positioned between dielectric and braid.
5. Slide sleeve over outer sheath and braid until it butts against clamp nut face.
6. Crimp sleeve, ensuring that crimp tool head butts against clamp nut.
7. Tin centre conductor.
8. Ensure that slot in contact is positioned to receive cable.
9. Press sub-assembly into body as far as possible and tighten clamp nut, ensuring centre conductor enters slot in contact.
10. Solder centre conductor into slot in contact.
11. Fit plug insulator and gasket, and secure plug.
12. Slide rubber sleeve\* to cover crimp sleeve and joint.

\*D167, only.



**Fig. 15. Plugs and jacks: non-captive contact, original UG-style braid clamp**

1. Place clamp nut, flat washer (when provided) and plain gasket over cable.
2. Trim outer sheath from cable, as indicated.
3. Fit braid clamp so that internal shoulder butts against end of outer sheath.
4. Fold back braid, avoiding crossed wires, and trim surplus braid.
5. Trim dielectric and check that dimension of exposed centre conductor is as specified.
6. Tin centre conductor.
7. Fit contact (male for plugs; female for jacks) over centre conductor, to butt against face of dielectric.
8. Hold contact and cable firmly together, and solder.
9. Slide plain gasket, flat washer (when provided) and clamp nut up to braid clamp.
10. Press sub-assembly into body as far as possible.
11. Engage and tighten clamp nut.



**Fig. 16. Plugs and jacks: non-captive contact, improved UG-style braid clamp**

1. Place clamp nut, flat washer (when provided) and V-groove gasket over cable. Note that groove in gasket is towards free end of cable.
2. Trim outer sheath from cable, as indicated.
3. Fit braid clamp so that internal shoulder butts against end of outer sheath.
4. Fold back braid, avoiding crossed wires, and trim surplus braid.
5. Trim dielectric and check that dimension of exposed centre conductor is as specified.
6. Tin centre conductor.
7. Fit contact (male for plugs; female for jacks) over centre conductor, to butt against face of dielectric.
9. Slide V-gasket, flat washer (when provided) and clamp nut up to braid clamp.
10. Press sub-assembly into body as far as is possible.
11. Engage and tighten clamp nut. For this operation hold body and cable rigid, and tighten nut to shear V-groove gasket.

