

# Series C

## Introduction

The Greenpar series C coaxial connectors are bayonet-coupled connectors designed for full interchangeability with those made to U.S. Military Specification MIL-C-39012.

They are available in both 50- and 75-ohm impedance versions, and may be used with an extensive range of coaxial cables including British Uniradio and American RG types.

The 50-ohm range is not interchangeable with the 75-ohm range.

## Performance

*VSWR (typical)* : 1.05 up to 4GHz

*Working voltage* : 1000V peak

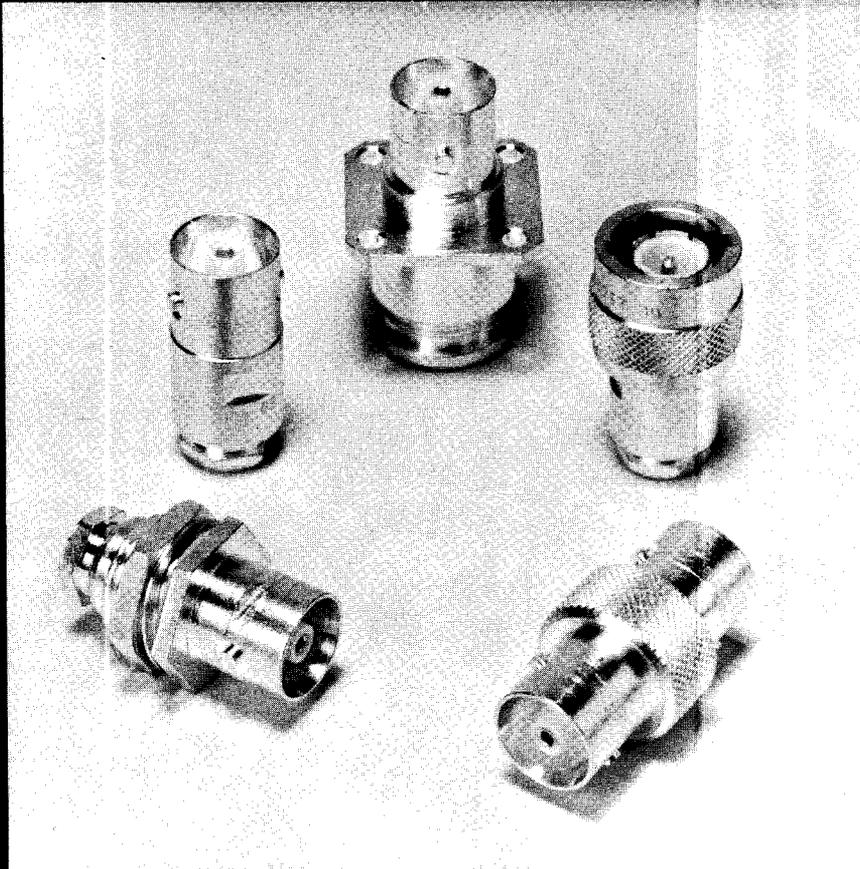
*Voltage proof* : 2500V peak

*Temperature range* : -55 to +150°C

## Contents

### 50- and 75-ohm series C

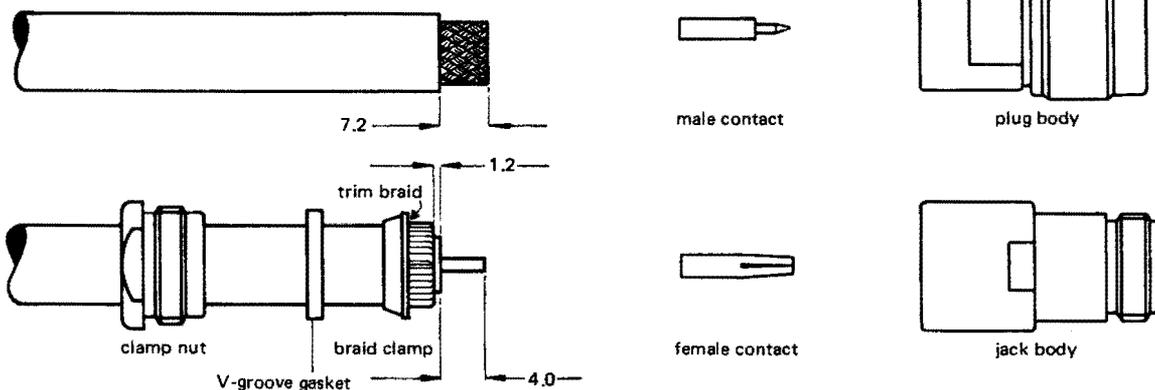
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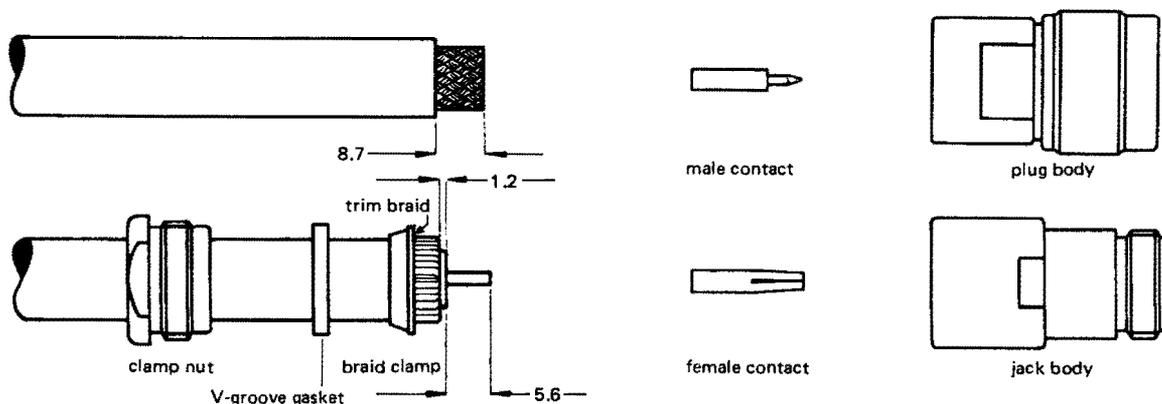
**Fig. 1. Improved MIL style braid clamp, non captive centre contact**

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|---|---|---|
| <ol style="list-style-type: none"> <li>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.</li> <li>2. Trim outer sheath from cable, to dimension shown.</li> <li>3. Fit braid clamp over braid so that internal shoulder butts against end of outer sheath.</li> <li>4. Fold braid back over clamp, avoiding crossed wires. Trim off surplus braid as shown.</li> </ol> | <ol style="list-style-type: none"> <li>5. Trim dielectric to dimension shown, and check conductor length is as specified.</li> <li>6. Tin centre conductor.</li> <li>7. Mount contact (male for plugs; female for jacks) over centre conductor to butt against face of dielectric.</li> <li>8. Hold cable and contact firmly together, and solder.</li> </ol> | <ol style="list-style-type: none"> <li>9. Slide V-groove gasket, flat washer (if applicable) and clamp nut up to braid clamp. Ensure V-groove gasket seats on clamp.</li> <li>10. Engage clamp nut in body.</li> <li>11. Holding body and cable rigid, tighten clamp nut to shear V-groove gasket.</li> </ol> |
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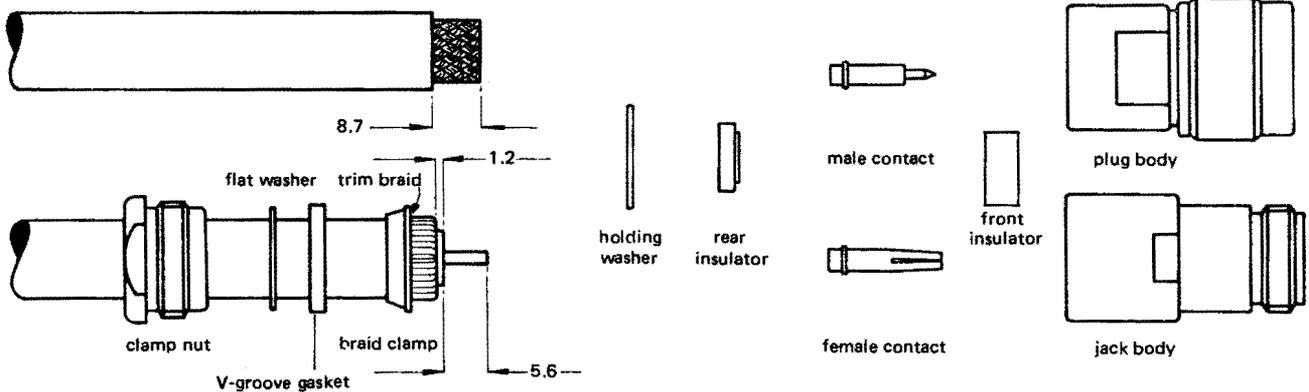
**Fig. 2. Improved MIL style braid clamp, non captive centre contact**

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|--|---|---|
| <ol style="list-style-type: none"> <li>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.</li> <li>2. Trim outer sheath from cable, to dimension shown.</li> <li>3. Fit braid clamp over braid so that internal shoulder butts against end of outer sheath.</li> </ol> | <ol style="list-style-type: none"> <li>4. Fold braid back over clamp, avoiding crossed wires. Trim off surplus braid as shown.</li> <li>5. Trim dielectric to dimension shown, and check conductor length is as specified.</li> <li>6. Tin centre conductor.</li> <li>7. Mount contact over centre conductor to butt against face of dielectric.</li> </ol> | <ol style="list-style-type: none"> <li>8. Hold cable and contact firmly together, and solder.</li> <li>9. Slide V-groove gasket and clamp nut up to braid clamp.</li> <li>10. Press sub-assembly into body as far as possible.</li> <li>11. Engage clamp nut in body.</li> <li>12. Holding body and cable rigid, tighten clamp nut to shear V-groove gasket.</li> </ol> |
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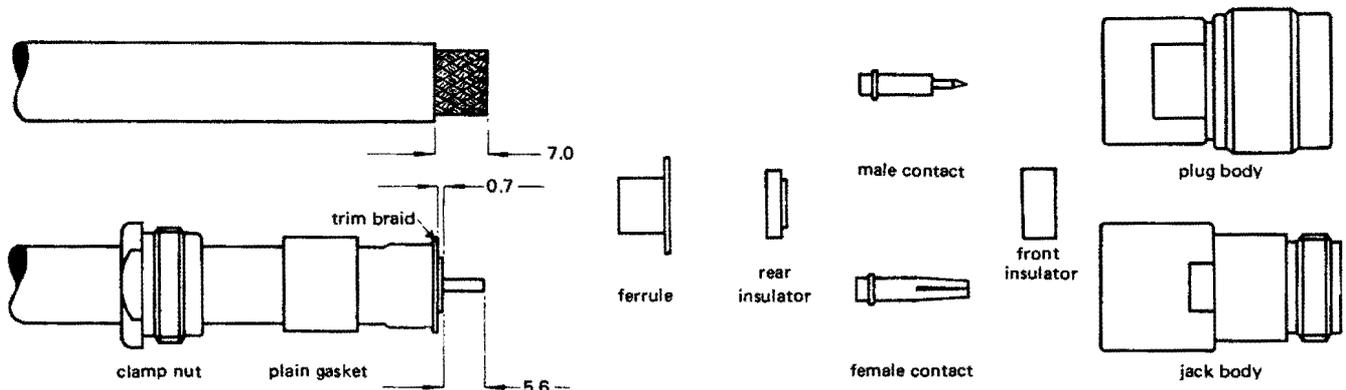
**Fig. 3. Improved MIL-style braid clamp, captive centre contact**

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|--|---|--|
| <ol style="list-style-type: none"> <li>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.</li> <li>2. Trim outer sheath from cable to dimension shown</li> <li>3. Fit braid clamp over braid so that internal shoulder butts against end of outer sheath.</li> <li>4. Fold braid back over clamp, avoiding crossed wires.</li> </ol> | <ol style="list-style-type: none"> <li>5. Trim off surplus braid as shown.</li> <li>6. Trim dielectric to dimension shown, and check conductor length is as specified.</li> <li>7. Tin centre conductor.</li> <li>8. Slide holding washer and rear insulator over dielectric to butt against braid.</li> <li>9. Mount contact (male for plugs; female for jacks) over centre conductor with shoulder pressed against rear insulator.</li> </ol> | <ol style="list-style-type: none"> <li>10. Hold cable and contact firmly together, and solder.</li> <li>11. Slide V-groove gasket, flat washer (when provided) and clamp nut up to braid clamp. Ensure V-groove gasket seats on clamp.</li> <li>12. Fit front insulator over contact to butt against rear insulator.</li> <li>13. Press sub-assembly into body as far as possible, and engage clamp nut.</li> <li>14. Holding body and cable rigid, tighten clamp nut to shear V-groove gasket.</li> </ol> |
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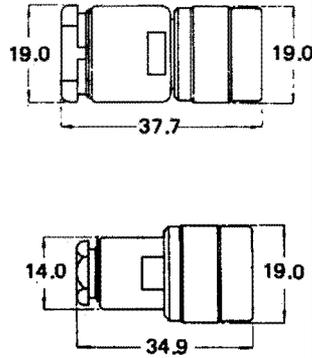
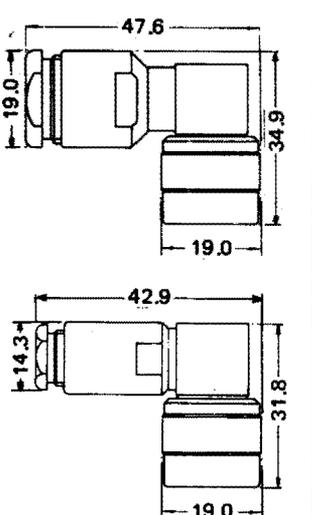


**Fig. 4. Pressure sleeve cable clamp, captive centre contact**

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| <ol style="list-style-type: none"> <li>1. Place clamp nut and plain gasket over cable.</li> <li>2. Trim outer sheath from cable to dimension shown.</li> <li>3. Fold back braid and insert ferrule to trap braid between outer sheath and ferrule.</li> <li>4. Trim off surplus braid as shown.</li> <li>5. Trim dielectric to dimension shown, and check that exposed centre conductor length is as specified.</li> </ol> | <ol style="list-style-type: none"> <li>6. Tin centre conductor.</li> <li>7. Slide rear insulator over dielectric to butt against ferrule.</li> <li>8. Mount contact (male for plugs; female for jacks) over centre conductor with shoulder pressed against rear insulator.</li> <li>9. Hold cable and contact firmly together, and solder.</li> <li>10. Slide plain gasket and clamp nut up to ferrule, trapping braid.</li> </ol> | <ol style="list-style-type: none"> <li>11. Fit front insulator over contact to butt against rear insulator.</li> <li>12. Press sub-assembly into body as far as possible, and engage clamp nut.</li> <li>13. Holding body and cable rigid, tighten clamp nut to compress plain gasket and retain cable.</li> </ol> |
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## PLUGS

Connector outline	Dim.		Assy. data Fig.	Greenpar Eng. No.		Cable clamp	Cable groups													
	A	B		50 ohm	75 ohm		1	4	6	7	10	12	25	27	30	52	60	62	73	79
<b>PLUGS</b>																				
			1	25019		—														
			3	25019		A														
			4	25019		C														
			1	27519		—														
			3	27519		A														
			4	27519		C														
			5	25003		—														
			6	25003		A														
			7	25003		C														
			6 or 5	27503		A or —														
		7	27503		C															
<b>ELBOW PLUGS</b>																				
			2	25013		—														
			3	25013		A														
			4	25013		C														
			2	27513		—														
			3	27513		A														
			4	27513		C														
			6	25020		A														
			7	25020		C														
		6	27520		A															
		7	27520		C															

### ORDERING INFORMATION

To order, please specify GREENPAR ENGINEERING No., CABLE CLAMP and CABLE GROUP. e.g. GE 27520C12.

# 50 and 75 ohm series C

## JACKS AND BULKHEAD JACKS

Connector outline	Dim. A B	Assy. data Fig.	Greenpar Eng. No.		Cable clamp	Cable groups											
			50 ohm	75 ohm		1	4	6	7	10	12	25	27	30	52	60	62
<b>JACKS</b>																	
		1	25017		—												
		3	25017		A												
		4	25017		C												
		1		27517		—											
		3		27517		A											
		4		27517		C											
		5	25022		—												
		6	25022		A												
		7	25022		C												
		5		27522		—											
		6		27522		A											
		7		27522		C											

### ORDERING INFORMATION

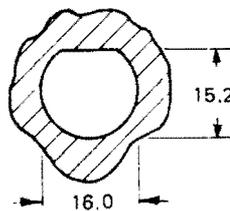
To order, please specify: GREENPAR ENGINEERING No., CABLE CLAMP and CABLE GROUP. e.g. GE 27522C12.

<b>BULKHEAD JACKS</b>		Assy. data Fig.	Greenpar Eng. No.		Cable clamp	Cable groups												
Dimensions	Panel		50 ohm	75 ohm		1	4	6	7	10	12	25	27	30	52	60	62	73
		5	25070		—													
		6	25070		A													
		7	25070		C													
		6		27570		A												
		7		27570		C												
		6	25071		A													
		7	25071		C													
		6		27571		A												
		7		27571		C												
		1	25031		—													
		3	25031		A													
		4	25031		C													
		3		27531		A												
		4		27531		C												

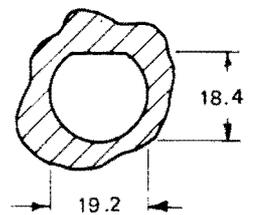
### ORDERING INFORMATION

To order, please specify GREENPAR ENGINEERING No., CABLE CLAMP and CABLE GROUP. e.g. GE 27531C1.

### PANEL PIERCING



GE 25070 and 27570

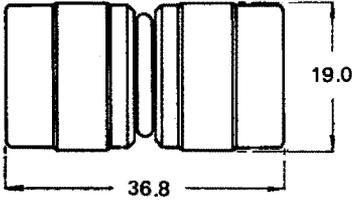


GE 25071, 27571, 25031, 27531.

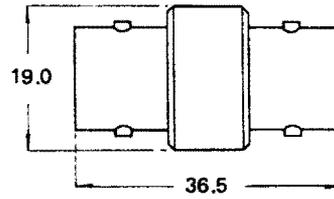




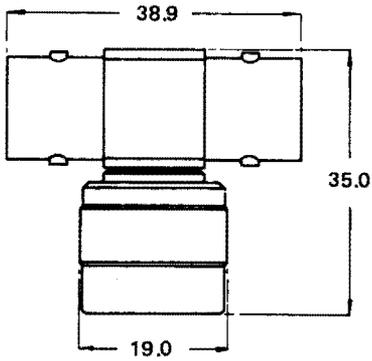
**PLUG STRAIGHT ADAPTORS**  
50 ohm – GE 25023 75 ohm – GE 27523



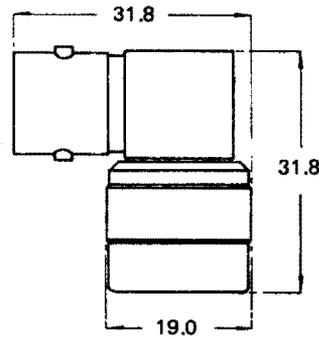
**JACK STRAIGHT ADAPTORS**  
50 ohm – GE 25024 75 ohm – GE 27524



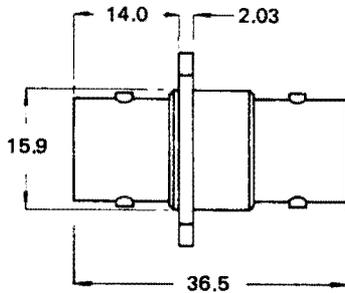
**T-ADAPTORS**  
50 ohm – GE 25009 75 ohm – GE 27509



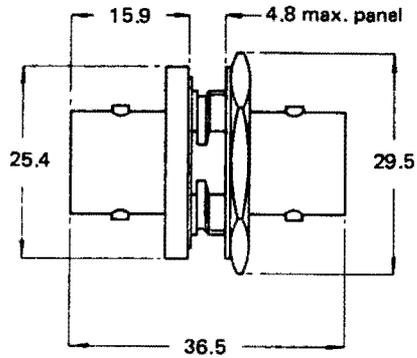
**ELBOW ADAPTORS**  
50 ohm – GE 25010 75 ohm – GE 27510



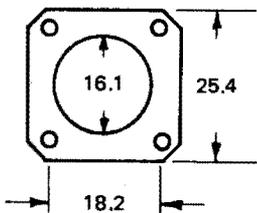
**PANEL STRAIGHT ADAPTORS**  
50 ohm – GE25058 75 ohm – GE27558



**BULKHEAD STRAIGHT ADAPTORS**  
50 ohm – GE 25012 75 ohm – GE 27512



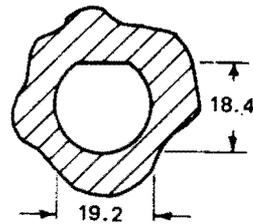
**MOUNTING DETAILS**



**MOUNTING HOLES**

- 4 - 40 UNC – F
- 3.2 mm. dia. – H
- 6 - 32 UNC – J

**PANEL PIERCING**



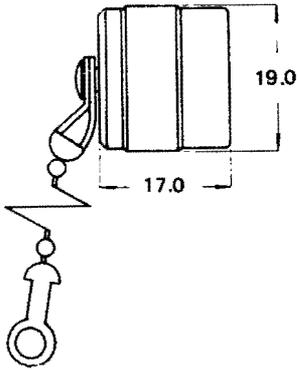
**ORDERING INFORMATION**

To order, please specify GREENPAR ENGINEERING No. and, where relevant, MOUNTING HOLE details. e.g. GE27858H.

# 50 and 75 ohm series C

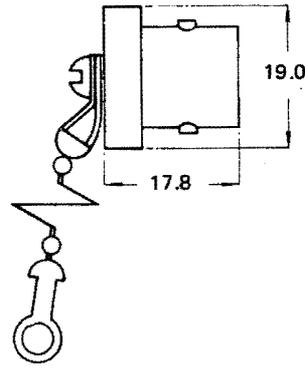
## PROTECTIVE CAPS

PLUG CAP AND CHAIN GE 20001



Chain length approx. 63mm.

JACK CAP AND CHAIN GE 20002



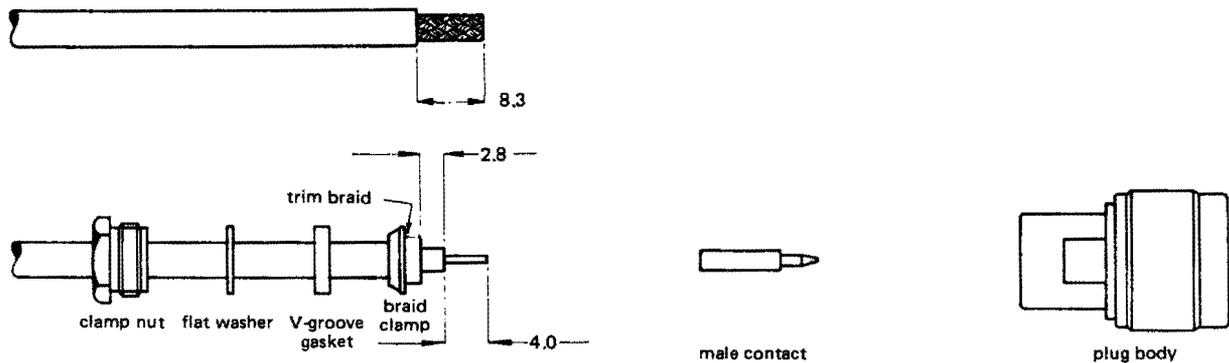
Chain length approx. 75mm.

### ORDERING INFORMATION

To order, please specify GREENPAR  
ENGINEERING No. only. e.g. GE 20001.

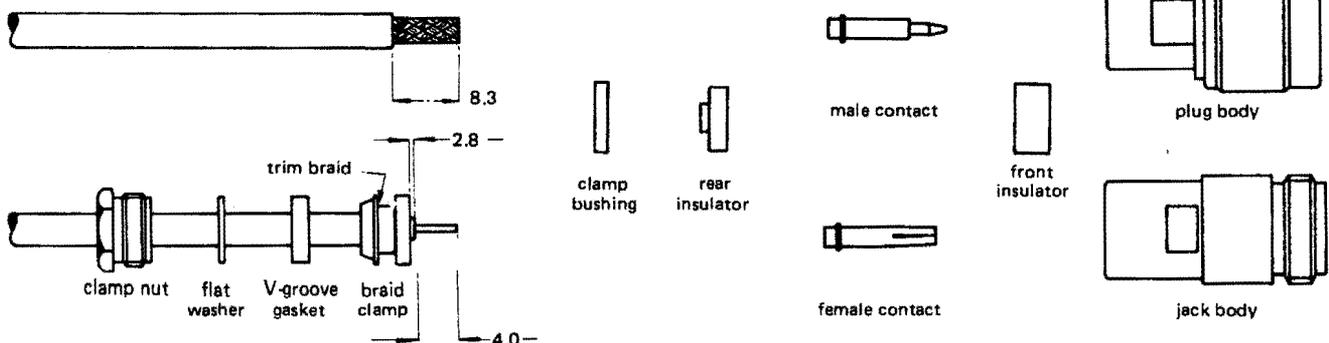
**Fig. 5. Improved MIL style braid clamp, non captive centre contact**

- |  |  |  |
|--|--|--|
| <ol style="list-style-type: none"> <li>1. Place clamp nut, flat washer and V-groove gasket over cable. Note that groove in gasket is towards free end of cable.</li> <li>2. Trim outer sheath from cable to dimension shown</li> <li>3. Fit braid clamp over braid so that internal shoulder butts against end of outer sheath.</li> <li>4. Fold braid back over clamp, avoiding crossed wires.</li> </ol> | <ol style="list-style-type: none"> <li>5. Trim off surplus braid as shown.</li> <li>6. Trim dielectric to dimension shown, and check conductor length is as specified.</li> <li>7. Tin centre conductor.</li> <li>8. Mount male contact over centre conductor to butt against face of dielectric.</li> <li>9. Hold cable and contact firmly together, and solder.</li> </ol> | <ol style="list-style-type: none"> <li>10. Slide V-groove gasket, flat washer and clamp nut up to braid clamp. Ensure V-groove gasket seats on clamp.</li> <li>11. Press sub-assembly into body as far as is possible, and engage clamp nut.</li> <li>12. Holding body and cable rigid, tighten clamp nut to shear V-groove gasket.</li> </ol> |
|--|--|--|



**Fig. 6. Improved MIL style braid clamp, captive centre contact**

- |  |   |  |
|--|---|--|
| <ol style="list-style-type: none"> <li>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.</li> <li>2. Trim outer sheath from cable to dimension shown.</li> <li>3. Fit braid clamp over braid so that internal shoulder butts against end of outer sheath.</li> <li>4. Fold braid back over clamp, avoiding crossed wires.</li> <li>5. Trim off surplus braid as shown.</li> </ol> | <ol style="list-style-type: none"> <li>6. Trim dielectric to dimension shown, and check conductor length is as specified.</li> <li>7. Tin centre conductor.</li> <li>8. Slide clamp bushing over dielectric to butt against braid, and fit rear insulator to butt against bushing.</li> <li>9. Mount contact (male for plugs; female for jacks) over centre conductor with shoulder pressed against rear insulator.</li> <li>10. Hold cable and contact firmly together, and solder.</li> </ol> | <ol style="list-style-type: none"> <li>11. Slide V-groove gasket, flat washer (when provided) and clamp nut up to braid clamp. Ensure V-groove gasket seats on clamp.</li> <li>12. Fit front insulator over contact to butt against rear insulator.</li> <li>13. Press sub-assembly into body as far as is possible, and engage clamp nut.</li> <li>14. Holding body and cable rigid, tighten clamp nut to shear V-groove gasket.</li> </ol> |
|--|---|--|



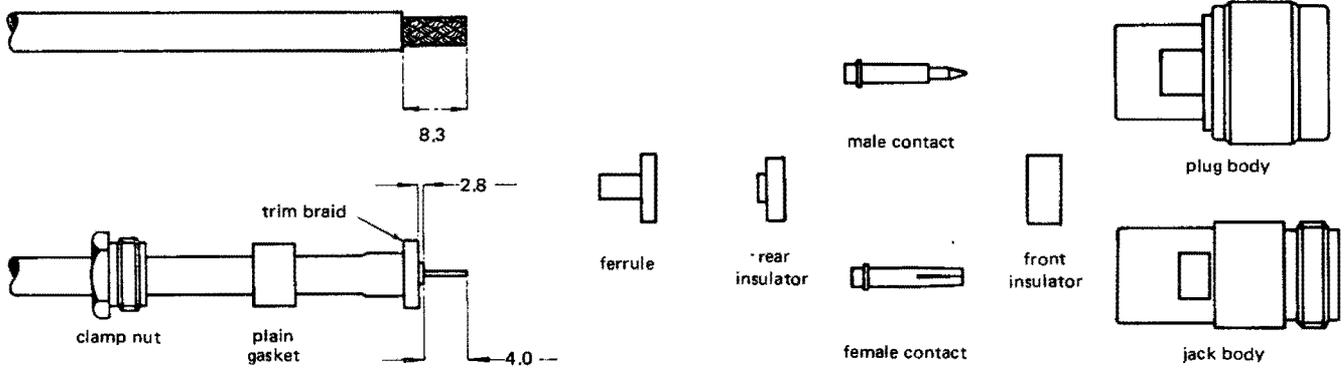
**Fig. 7. Pressure sleeve cable clamp, captive centre contact**

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.

For C73 see Figure 8.

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. Clamp for semi-rigid cable C73.**

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. Press sub-assembly into body as far as possible and engage clamp nut.
12. Holding body and cable rigid, tighten clamp nut firmly.

