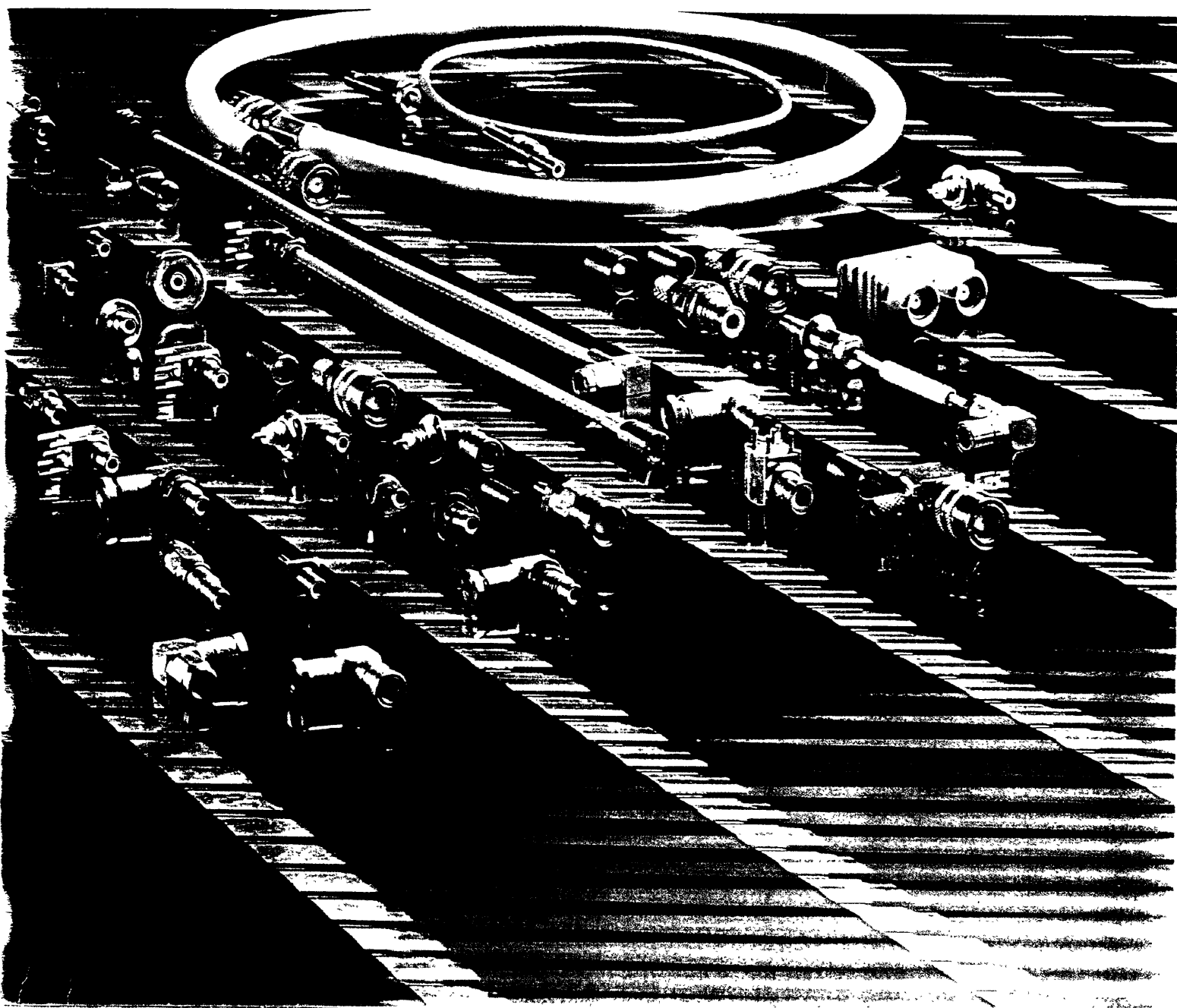


**SMB, SMC, SMD
and BT43
r.f. connectors**

greconpar

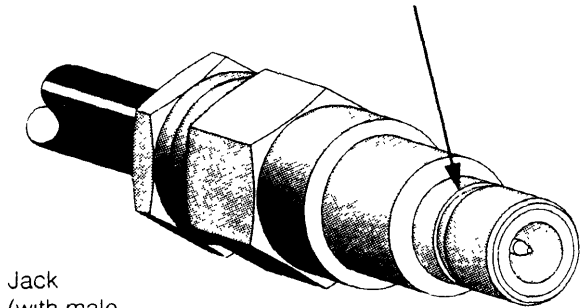


Interface coupling comparisons

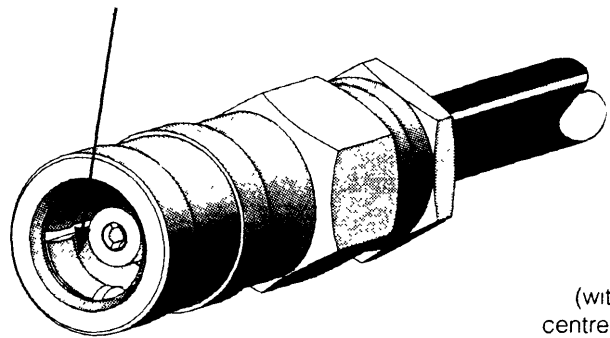
SMB (Snap together)

Groove on outer of jack barrel

Ridge on inner surface of spring fingers of plug barrel (which retains SMB jack).



Jack (with male centre contact)

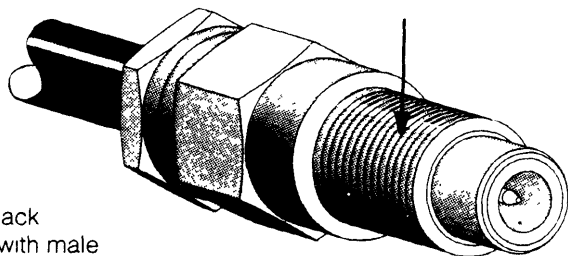


Plug (with female centre contact)

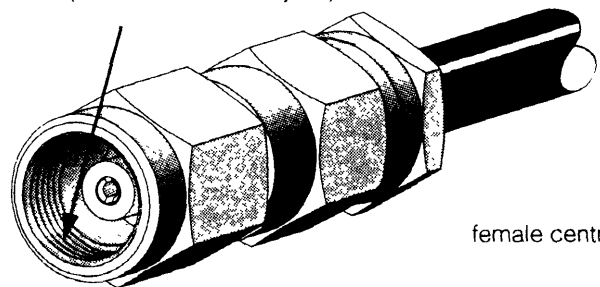
SMC (Screw together)

Screw thread on outer of jack barrel

Screw thread on inner of coupling nut (which retains SMC jack)



Jack (with male centre contact)

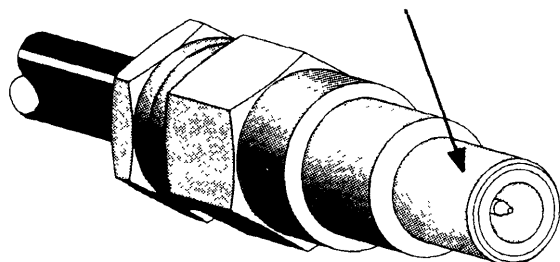


Plug (with female centre contact)

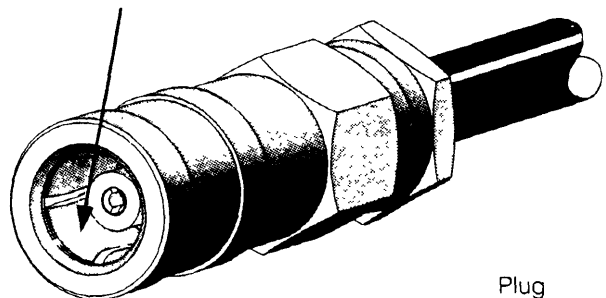
SMD (Push together)

Uniform flat surface on outer of jack barrel

Tapered spring fingers on inner of plug barrel (which retain SMD jack)



Jack (with male centre contact)



Plug (with female centre contact)

Product descriptions/features

Product descriptions

The extensive range of SMB, SMC and SMD connectors manufactured by Greenpar have been designed to satisfy high density, low loss requirements and have been successfully incorporated into a variety of differing systems including instrumentation equipment, airborne systems and communication equipment. The performance achieved from SMB, SMC and SMD connectors is similar to that obtained from BNC connectors, but their smaller physical size make them ideal general purpose sub-miniature connectors. The SMB, SMC and SMD series are constructed with gold plated brass bodies and gold plated beryllium copper or brass contacts set in PTFE insulators (for maximum reliability under adverse conditions) or nickel plated bodies with gold plated beryllium copper or brass contacts set in PTFE insulators (for commercial or less extreme working conditions).

The latching plug versions of the 75 ohm BT43 series are constructed with hard gold plated beryllium copper in all mating areas, with gold plated beryllium copper contacts.

The SMB, SMC and SMD series are fully compatible with BS9210 and MIL-C-39012 standards. In addition appropriate items from the SMB/SMC and BT43 series are approved to BS9210 and BT specification 8003.

Features

- Three different coupling styles available. ie. snap together SMB, screw together SMC, and push together SMD.
- Styles suitable for a variety of applications. eg. PCB mount, cable entry (both flexible and semi-rigid), and bulkhead applications
- A choice of body plating, with gold or bright nickel as standard.
- Approved to meet BS9210, and BT8003 standards.
- A choice of solder/clamp, solder/crimp and crimp/crimp cable entry styles.
- Lipped body on SMB/SMD plugs improves lead in and reduces possible damage to mating half through misalignment.
- Most styles available in 50 ohm and 75 ohm versions.
- Straight plug, straight jack and straight bulkhead jack kits available. (comprising of connectors and cable boots).

SMB

SMB connectors are designed to provide a quick connect/disconnect facility. These sub-miniature connectors offer an economic solution to many limited space connection problems. SMB connectors have a 4GHz frequency rating, similar to the BNC range, but due to their smaller physical size offer an additional high packing capability.

SMB plugs retain SMB jacks/sockets using a ridge on the inner of the barrel, which snaps into a groove located on the outer of the jack/socket barrel

SMC

SMC connectors provide an excellent semi-permanent connection, due to their screw together coupling mechanism. These connectors offer ideal solutions to connection problems in vibration environments, where space restraints prevail and a particularly low VSWR is required. SMC connectors have a frequency rating of 10GHz and are extensively used in mobile equipment applications

SMD

SMD connectors have 4GHz frequency rating and are mated using a push together mechanism. These connectors offer a quick connect/disconnect facility, require relatively low mating/unmating forces and are thus suitable for environments where space is limited and where numerous mating cycles are required, such as rack and panel systems.

BT43

BT43 connectors are widely used in data transmission and telecommunications applications. These 75 ohm connectors have been developed from the SMB range and feature snap-on and latching variants. The latching versions can only be disconnected by pushing on the latching sleeve. This protects against accidental disconnection caused by a pull on the cable or connector body. Most BT43 connectors are available as fully crimped connectors as well as being available in solder centre contact, crimp outer styles

The following factors should be considered when selecting a connector

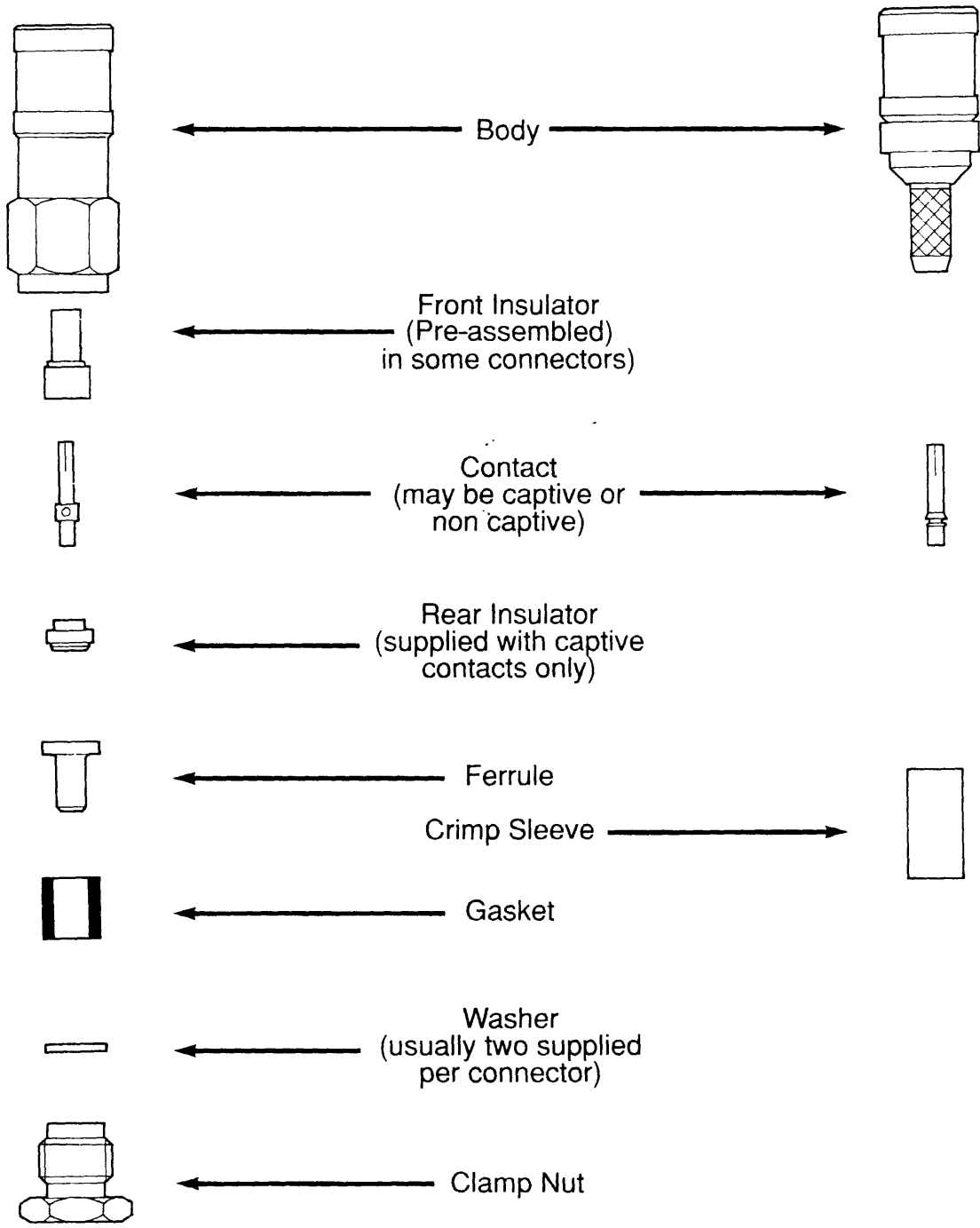
| | |
|---|-------------------------------------|
| Series | consider application, compatibility |
| Impedance | 50 or 75 ohms |
| Style | plug, jack, adaptor etc |
| Finish | gold, bright nickel etc |
| Method of assembling connector to cable | crimp, clamp or solder |
| Packing | individual bags or bulk packed |

SMB/SMC/SMD

Typical piece parts in solder clamp and crimp connectors

Solder/clamp connectors

Solder/crimp and crimp/crimp connectors



The piece parts indicated above are typical for SMB/SMC/SMD connectors. For assembly information, and to assist recognition and checking of parts supplied, turn to the appropriate assembly instruction page or consult our sales office.

Method of cable retention

Solder/clamp piece parts

The clamp method of fastening connectors to coaxial cable requires mechanical clamping of the braid, usually by means of a threaded nut, and soldering of the centre conductor to the contact. In some cases the braid of flexible cable can be soldered directly to the connector ferrule. The main advantage of the clamp/solder termination is its independence from special tools — only common workshop tools are needed. It also has the advantage that the joint can be inspected and if necessary, be re-made with or without shortening the cable.

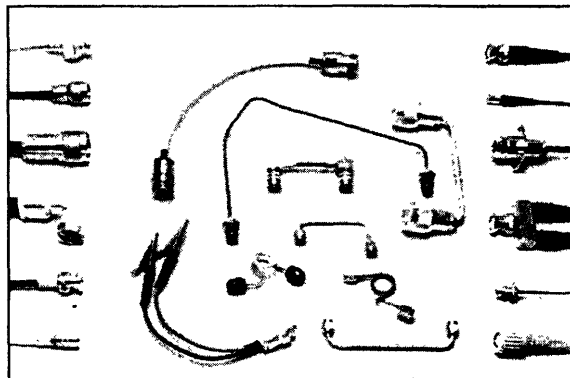
Crimp piece parts

A crimped connector comprises only a few piece parts, typically only three, a centre contact, body and crimp sleeve, (see previous page). It produces a fast consistent and reliable connection at a low applied cost. Consistency is assured by using ratchet controlled crimp tools that do not release until the die set has bottomed.

Crimp connectors are not reusable. If re-termination is required the unwanted connector must be cut from the cable.

Greenpar manufacture crimp SMB/SMC/SMD connector variants with either a solder centre contact or a crimp centre contact. All however have a crimp sleeve for the braid. Part numbers for relevant crimping tools available from Greenpar are on page 30 of this catalogue.

Cable assemblies



Greenpar can supply flexible or semi-rigid cable assemblies to customers' own specifications. This eliminates the need for customers' in-house production, reducing inventory, tooling and labour costs. For custom made SMB/SMC/SMD connector assemblies and inter series assemblies (such as SMB to BNC assemblies) we will require details regarding:-

- 1) The type of cable required (eg RG178B/U)
- 2) The overall length of the assembly.
- 3) The connector part numbers required on each end of the assembly
- 4) Any special markings required.
- 5) For semi rigid assemblies, full details of shape

Finished assemblies can be 100% electrically tested for phase length attenuation and return loss using the Automatic Network Analyser. These automated facilities ensure rapid turn-around from enquiry to delivery, with quality and performance guaranteed. Please contact our sales office for further details or technical information.

Electrical/mechanical specification

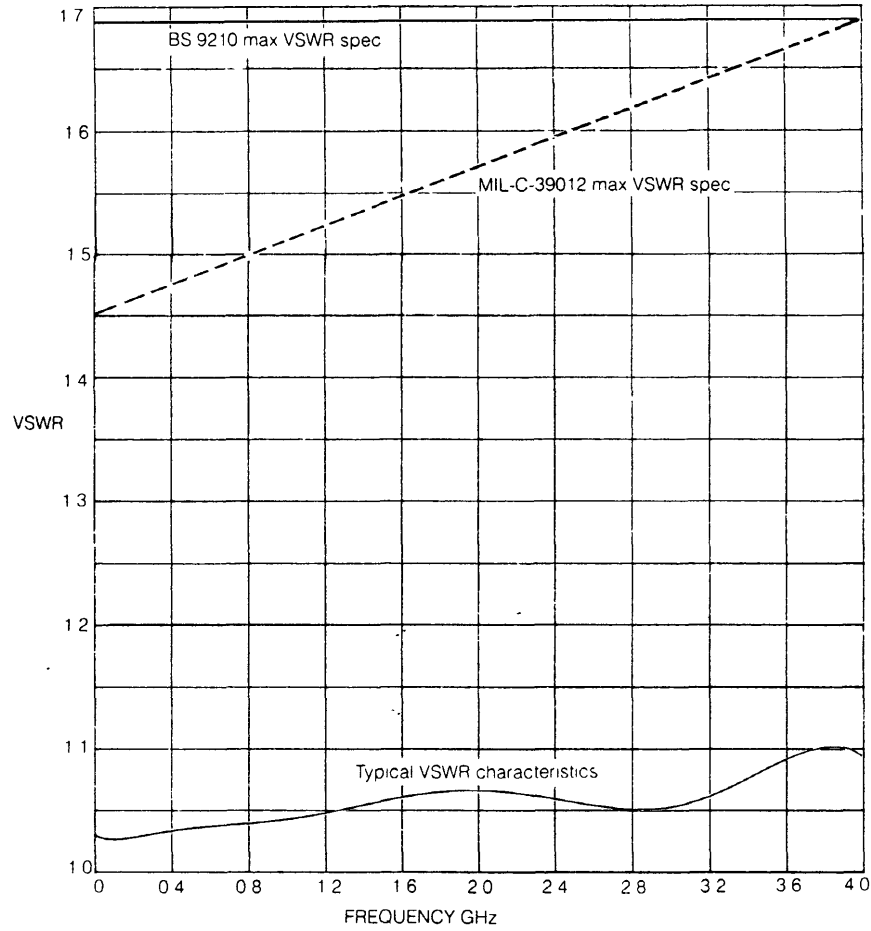
SMB/SMC connectors have been designed to meet or exceed the requirements of BS9210 and MIL-C-39012

(All the information included within this page is typical for the series but will not necessarily apply to every style or variant)

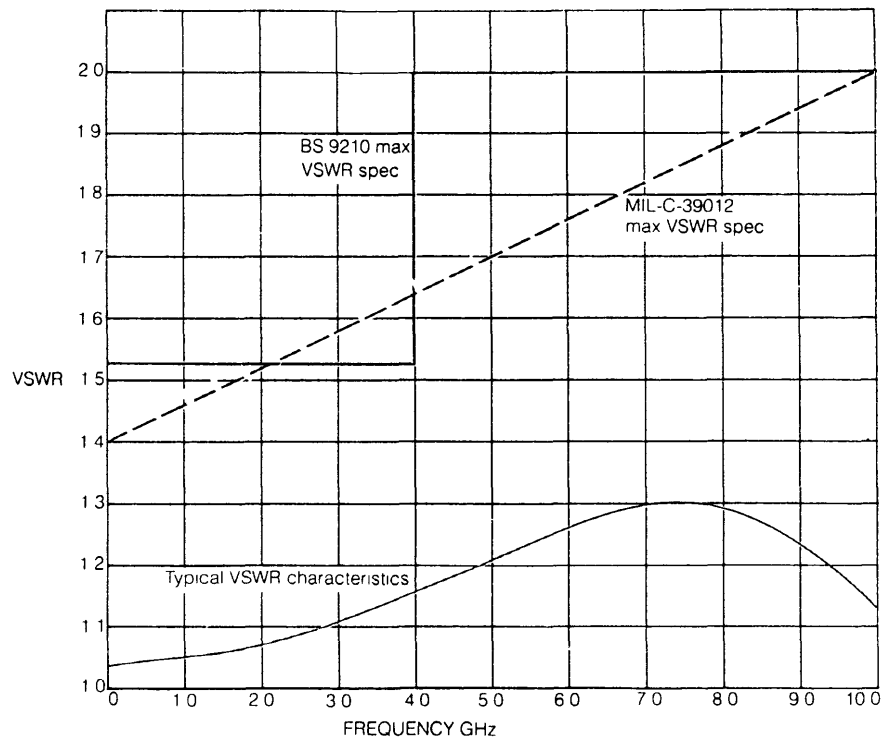
| | SMB | SMC | SMB | SMC |
|-----------------------------------|---------------------------------|--|--|--|
| | BS 9210N0007 or BS 9210F0026 | BS 9210F0027 | MIL-C-39012 | |
| VSWR (Straight outlet) | 1.46 to 4GHz | 1.41 to 4GHz | 1.30 + 0.04f* to 4GHz | 1.25 + 0.04f to 10GHz |
| VSWR (Right angle outlet) | 1.69 to 4GHz | 1.69 to 10GHz 1.57 to 4GHz 2.00 to 10GHz | 1.45 + 0.06f to 4GHz (f=frequency in GHz) | 1.40 + 0.06f to 10GHz |
| Working Voltage † (dc or ac peak) | | | | |
| a) at sea level | | 500V | | 250V |
| b) at 20km | | 100V | | 60V |
| Proof Voltage † | | | | |
| a) at sea level | | 1500V | | 750V |
| b) at 20 km | | 300V | | 185V |
| † Cable dependant | | | | |
| Contact Resistance (max) | | | | |
| a) before conditioning | | 5 mΩ | | 6 mΩ |
| b) after conditioning | | 10 mΩ | | 8 mΩ |
| Outer Conductor Continuity | | | | |
| a) before conditioning | | 2 mΩ | | 1 mΩ |
| b) after conditioning | | 5 mΩ | | 1.5 mΩ |
| Insulation Resistance | | | | |
| a) before conditioning | | 5 GΩ | | 1 GΩ |
| b) after conditioning | | 500 MΩ | | N/A |
| Vibration Severity | | | | |
| Frequency range | | 10Hz to 500Hz | | MIL STD 202 |
| Displacement | | 0.75mm | | |
| Acceleration | | 98m/s ² | | |
| Duration | 30 min | 6 hrs | Method 204 (B) | Method 204 (D) |
| Shock severity | N/A | 490m/s ² for 11ms | Method 213 (B) | Method 213 (C) |
| Impact severity | | 5 impacts @ 1m | | N/A |
| Bump severity | | 4000@ 390m/s ² | | N/A |
| Climatic category | | 55/155/21 | | Method 102 (C) |
| Engagement force max | 60N | — | 62N | N/A |
| Seperation force max | 60N | — | 62N | N/A |
| Seperation force min | 8N | — | 9N | N/A |
| Normal coupling torque | — | 420-450 mN m | N/A | 248-354mN m |
| Coupling proof torque | — | N/A | N/A | 708mN m |
| Material | | | | |
| Body parts | | Brass | | |
| Centre contacts | | | | |
| Male | | Brass | | |
| Female | | Heat treated beryllium copper | | |
| Insulation | | PTFE | | |
| Gaskets | | Silicone rubber | | |
| Finish | | | | To requirement of para 3.14 of specification |
| Centre contacts | | 2.54 μm min hard gold over copper | | |
| Body parts | | Gold plate to meet climatic category | | |
| Design | | To control dwgs part 2 | | Within interface dimensions of specification |

Typical VSWR characteristics

SMB



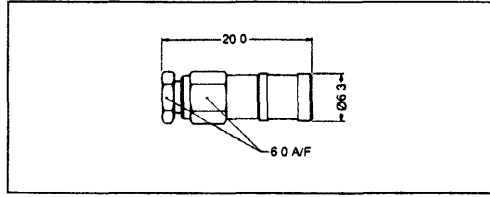
SMC



The performance characteristics outlined above are based upon tests carried out upon part numbers B65H48G022X99 and C65H48G022X99. For VSWR details on other versions contact our sales office

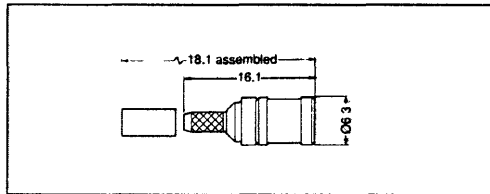
Straight plugs/50 ohm (for flexible cable)

Solder centre contact
clamp outer
(female centre contact)



| * Cable Group | Body Plating | Contact Plating | SMB | Part Number SMC | SMD | Assembly Instr Page |
|---------------|---------------|-----------------|---------------|-----------------|---------------|---------------------|
| 022 | Gold | Gold | B65A01G022X99 | C65A01G022X99 | D65A01G022X99 | 32(a) |
| 022 | Bright Nickel | Gold | B65A01J022X99 | C65A01J022X99 | D65A01J022X99 | 32(a) |
| 024 | Gold | Gold | B65A01G024X99 | C65A01G024X99 | D65A01G024X99 | 32(a) |
| 024 | Bright Nickel | Gold | B65A01J024X99 | C65A01J024X99 | D65A01J024X99 | 32(a) |

Crimp centre contact
crimp outer
(female centre contact)



| * Cable Group | Body Plating | Contact Plating | SMB | Part Number SMC | SMD | Assembly Instr Page |
|---------------|---------------|-----------------|---------------|-----------------|---------------|---------------------|
| 022 | Gold | Gold | B65A61G022X99 | C65A61G022X99 | D65A61G022X99 | 36(a) |
| 022 | Bright Nickel | Gold | B65A61J022X99 | C65A61J022X99 | D65A61J022X99 | 36(a) |
| 024 | Gold | Gold | B65A61G024X99 | C65A61G024X99 | D65A61G024X99 | 36(b) |
| 024 | Bright Nickel | Gold | B65A61J024X99 | C65A61J024X99 | D65A61J024X99 | 36(b) |

* For cable group to cable type cross reference see fold out section of rear cover
Preferred part numbers.

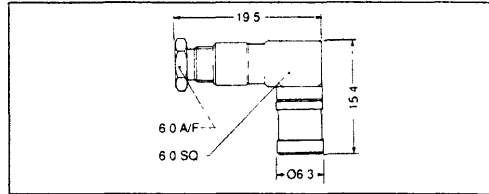
All diagrams are for SMB versions

All dimensions are nominal

For 75 ohm versions see pages 25 to 29, or contact our sales office for uncatalogued requirements

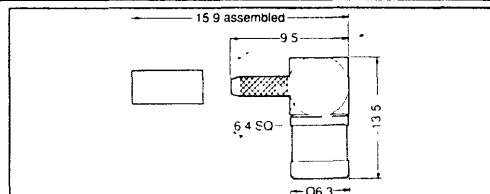
Elbow plugs/50 ohm (for flexible cable)

Solder centre contact
clamp outer
(female centre contact)



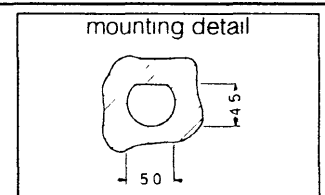
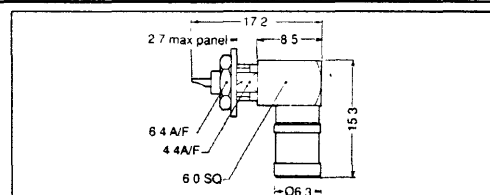
| * Cable Group | Body Plating | Contact Plating | SMB | Part Number SMC | SMD | Assembly Instr Page |
|---------------|---------------|-----------------|---------------|-----------------|---------------|---------------------|
| 022 | Gold | Gold | B65B02G022X99 | C65B02G022X99 | D65B02G022X99 | 33(a) |
| 022 | Bright Nickel | Gold | B65B02J022X99 | C65B02J022X99 | D65B02J022X99 | 33(a) |
| 024 | Gold | Gold | B65B02G024X99 | C65B02G024X99 | D65B02G024X99 | 33(a) |
| 024 | Bright Nickel | Gold | B65B02J024X99 | C65B02J024X99 | D65B02J024X99 | 33(a) |

Low profile,
solder centre contact
crimp outer
(female centre contact)



| * Cable Group | Body Plating | Contact Plating | SMB | Part Number SMC | Assembly Instr Page |
|---------------|---------------|-----------------|---------------|-----------------|---------------------|
| 022 | Gold | Gold | B65B37G022X99 | C65B37G022X99 | 35(b) |
| 022 | Bright Nickel | Gold | B65B37J022X99 | C65B37J022X99 | 35(b) |
| 024 | Gold | Gold | B65B37G024X99 | C65B37G024X99 | 35(b) |
| 024 | Bright Nickel | Gold | B65B37J024X99 | C65B37J024X99 | 35(b) |

Solder spill bulkhead
(female centre contact)



| Body Plating | Contact Plating | SMB | Part Number SMC | SMD |
|---------------|-----------------|---------------|-----------------|---------------|
| Gold | Gold | B65D22G999X99 | C65D22G999X99 | D65D22G999X99 |
| Bright Nickel | Gold | B65D22J999X99 | C65D22J999X99 | D65D22J999X99 |

* For cable group to cable type cross reference see fold out section of rear cover

Preferred part numbers

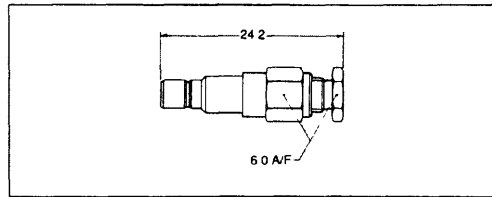
All diagrams are for SMB versions

All dimensions are nominal.

For 75 ohm versions see pages 25 to 29, or contact our sales office for uncatalogued requirements

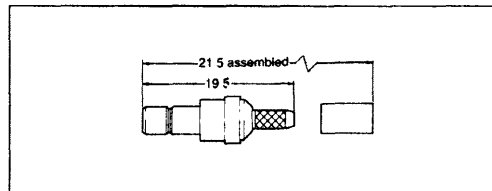
Straight jacks/50 ohm (for flexible cable)

Solder centre contact
clamp outer
(male centre contact)



| * Cable Group | Body Plating | Contact Plating | Part Number | | | Assembly Instr Page |
|---------------|---------------|-----------------|---------------|---------------|---------------|---------------------|
| | | | SMB | SMC | SMD | |
| 022 | Gold | Gold | B65E06G022X99 | C65E06G022X99 | D65E06G022X99 | 32(a) |
| 022 | Bright Nickel | Gold | B65E06J022X99 | C65E06J022X99 | D65E06J022X99 | 32(a) |
| 024 | Gold | Gold | B65E06G024X99 | C65E06G024X99 | D65E06G024X99 | 32(a) |
| 024 | Bright Nickel | Gold | B65E06J024X99 | C65E06J024X99 | D65E06J024X99 | 32(a) |

Crimp centre contact
crimp outer
(male centre contact)



| * Cable Group | Body Plating | Contact Plating | Part Number | | | Assembly Instr Page |
|---------------|---------------|-----------------|---------------|---------------|---------------|---------------------|
| | | | SMB | SMC | SMD | |
| 022 | Gold | Gold | B65E66G022X99 | C65E66G022X99 | D65E66G022X99 | 36(a) |
| 022 | Bright Nickel | Gold | B65E66J022X99 | C65E66J022X99 | D65E66J022X99 | 36(a) |
| 024 | Gold | Gold | B65E66G024X99 | C65E66G024X99 | D65E66G024X99 | 36(b) |
| 024 | Bright Nickel | Gold | B65E66J024X99 | C65E66J024X99 | D65E66J024X99 | 36(b) |

* For cable group to cable type cross reference see fold out section of rear cover

Preferred part numbers

All diagrams are for SMB versions

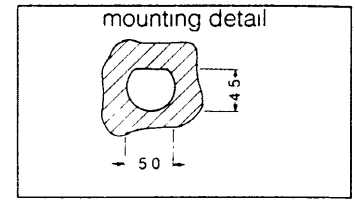
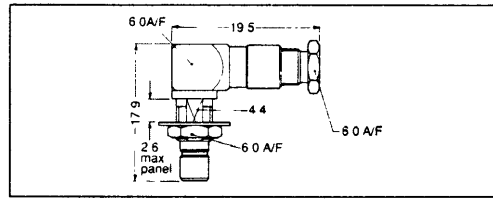
All dimensions are nominal.

For 75 ohm versions see pages 25 to 29, or contact our sales office for uncatalogued requirements

SMB/SMC/SMD

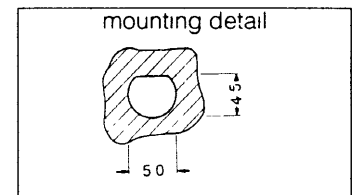
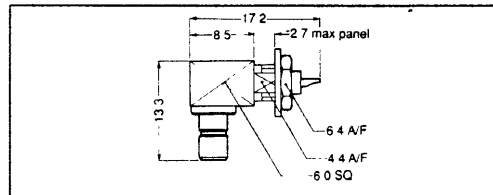
Elbow bulkhead jacks and sockets/50 ohm (for flexible cable)

Solder centre contact
clamp outer
(male centre contact)



| * Cable Group | Body Plating | Contact Plating | SMB | Part Number SMC | SMD | Assembly Instr Page |
|---------------|---------------|-----------------|---------------|-----------------|---------------|---------------------|
| 022 | Gold | Gold | B65H48G022X99 | C65H48G022X99 | D65H48G022X99 | 33(a) |
| 022 | Bright Nickel | Gold | B65H48J022X99 | C65H48J022X99 | D65H48J022X99 | 33(a) |
| 024 | Gold | Gold | B65H48G024X99 | C65H48G024X99 | D65H48G024X99 | 33(a) |
| 024 | Bright Nickel | Gold | B65H48J024X99 | C65H48J024X99 | D65H48J024X99 | 33(a) |

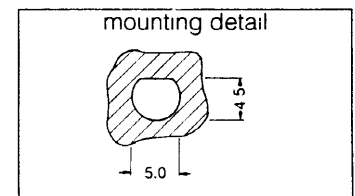
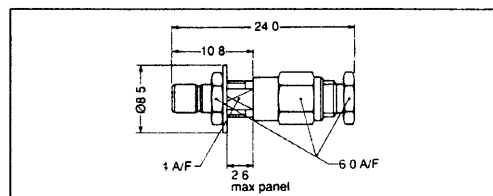
Solder spill socket
(male centre contact)



| Body Plating | Contact Plating | SMB | Part Number SMC | SMD |
|---------------|-----------------|---------------|-----------------|---------------|
| Gold | Gold | B65M09G999X99 | C65M09G999X99 | D65M09G999X99 |
| Bright Nickel | Gold | B65M09J999X99 | C65M09J999X99 | D65M09J999X99 |

Straight bulkhead jacks/50 ohm

Solder centre contact
clamp outer
(male centre contact)



| * Cable Group | Body Plating | Contact Plating | SMB | Part Number SMC | SMD | Assembly Instr Page |
|---------------|---------------|-----------------|---------------|-----------------|---------------|---------------------|
| 022 | Gold | Gold | B65H05G022X99 | C65H05G022X99 | D65H05G022X99 | 32(a) |
| 022 | Bright Nickel | Gold | B65H05J022X99 | C65H05J022X99 | D65H05J022X99 | 32(a) |
| 024 | Gold | Gold | B65H05G024X99 | C65H05G024X99 | D65H05G024X99 | 32(a) |
| 024 | Bright Nickel | Gold | B65H05J024X99 | C65H05J024X99 | D65H05J024X99 | 32(a) |

* For cable group to cable type cross reference see fold out section of rear cover

Preferred part numbers.

All diagrams are for SMB versions

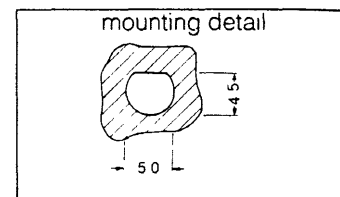
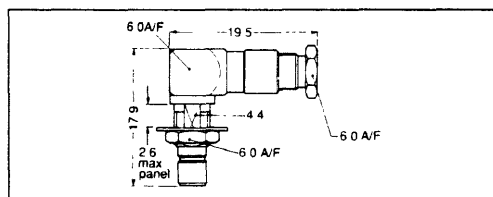
All dimensions are nominal

For 75 ohm versions see pages 25 to 29, or contact our sales office for uncatalogued requirements

SMB/SMC/SMD

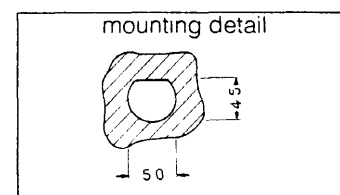
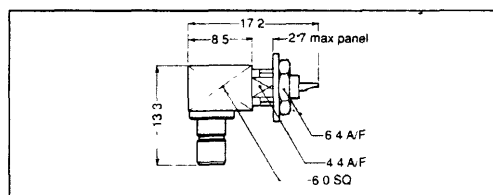
Elbow bulkhead jacks and sockets/50 ohm (for flexible cable)

Solder centre contact
clamp outer
(male centre contact)



| * Cable Group | Body Plating | Contact Plating | SMB | Part Number SMC | SMD | Assembly Instr Page |
|---------------|---------------|-----------------|---------------|-----------------|---------------|---------------------|
| 022 | Gold | Gold | B65H48G022X99 | C65H48G022X99 | D65H48G022X99 | 33(a) |
| 022 | Bright Nickel | Gold | B65H48J022X99 | C65H48J022X99 | D65H48J022X99 | 33(a) |
| 024 | Gold | Gold | B65H48G024X99 | C65H48G024X99 | D65H48G024X99 | 33(a) |
| 024 | Bright Nickel | Gold | B65H48J024X99 | C65H48J024X99 | D65H48J024X99 | 33(a) |

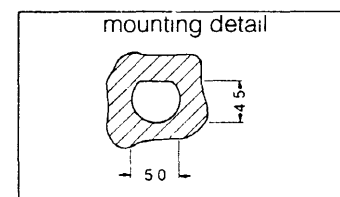
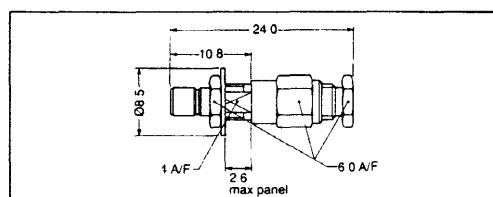
Solder spill socket
(male centre contact)



| Body Plating | Contact Plating | SMB | Part Number SMC | SMD |
|---------------|-----------------|---------------|-----------------|---------------|
| Gold | Gold | B65M09G999X99 | C65M09G999X99 | D65M09G999X99 |
| Bright Nickel | Gold | B65M09J999X99 | C65M09J999X99 | D65M09J999X99 |

Straight bulkhead jacks/50 ohm

Solder centre contact
clamp outer
(male centre contact)



| * Cable Group | Body Plating | Contact Plating | SMB | Part Number SMC | SMD | Assembly Instr Page |
|---------------|---------------|-----------------|---------------|-----------------|---------------|---------------------|
| 022 | Gold | Gold | B65H05G022X99 | C65H05G022X99 | D65H05G022X99 | 32(a) |
| 022 | Bright Nickel | Gold | B65H05J022X99 | C65H05J022X99 | D65H05J022X99 | 32(a) |
| 024 | Gold | Gold | B65H05G024X99 | C65H05G024X99 | D65H05G024X99 | 32(a) |
| 024 | Bright Nickel | Gold | B65H05J024X99 | C65H05J024X99 | D65H05J024X99 | 32(a) |

* For cable group to cable type cross reference see fold out section of rear cover

Preferred part numbers

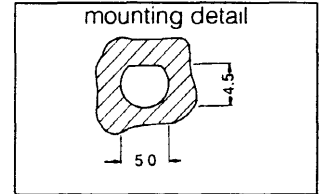
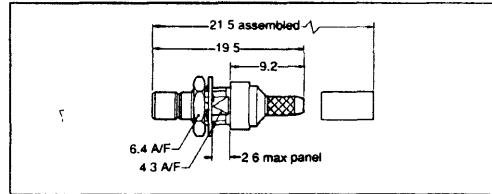
All diagrams are for SMB versions.

All dimensions are nominal

For 75 ohm versions see pages 25 to 29, or contact our sales office for uncatalogued requirements

Straight bulkhead jacks and sockets/50 ohm (for flexible cable)

Crimp centre contact
crimp outer
(male centre contact)

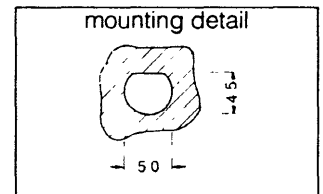
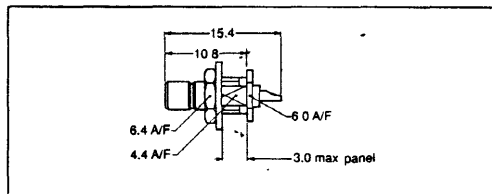


| * Cable Group | Body Plating | Contact Plating |
|---------------|---------------|-----------------|
| 022 | Gold | Gold |
| 022 | Bright Nickel | Gold |
| 024 | Gold | Gold |
| 024 | Bright Nickel | Gold |

| SMB | Part Number SMC |
|---------------|-----------------|
| B65H65G022X99 | C65H65G022X99 |
| B65H65J022X99 | C65H65J022X99 |
| B65H65G024X99 | C65H65G024X99 |
| B65H65J024X99 | C65H65J024X99 |

| SMD | Assembly Instr Page |
|---------------|---------------------|
| D65H65G022X99 | 36(a) |
| D65H65J022X99 | 36(a) |
| D65H65G024X99 | 36(b) |
| D65H65J024X99 | 36(b) |

Solder spill rear mount
socket
(male centre contact)

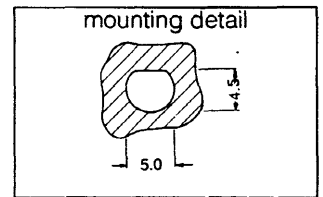
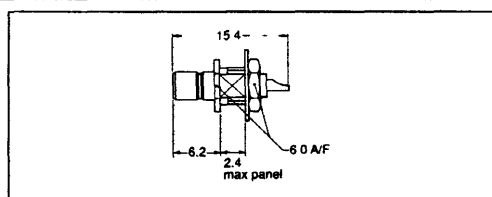


| Body Plating | Contact Plating |
|---------------|-----------------|
| Gold | Gold |
| Bright Nickel | Gold |

| SMB | Part Number SMC |
|---------------|-----------------|
| B65M08G999X99 | C65M08G999X99 |
| B65M08J999X99 | C65M08J999X99 |

| SMD |
|---------------|
| D65M08G999X99 |
| D65M08J999X99 |

Solder spill front mount
socket
(male centre contact)



| Body Plating | Contact Plating |
|---------------|-----------------|
| Gold | Gold |
| Bright Nickel | Gold |

| SMB | Part Number SMC |
|---------------|-----------------|
| B65M18G999X99 | C65M18G999X99 |
| B65M18J999X99 | C65M18J999X99 |

| SMD |
|---------------|
| D65M18G999X99 |
| D65M18J999X99 |

* For cable group to cable type cross reference see fold out section of rear cover
Preferred part numbers.

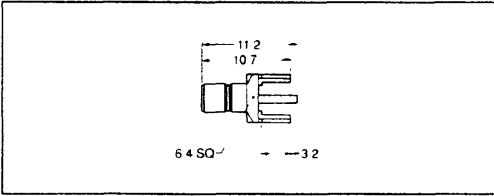
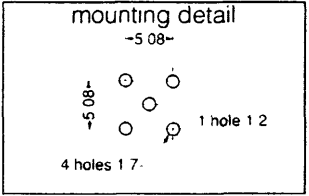
All diagrams are for SMB versions.

All dimensions are nominal.

For 75 ohm versions see pages 25 to 29, or contact our sales office for uncatalogued requirements

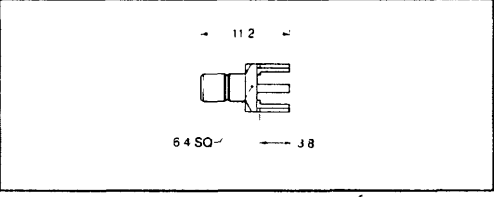
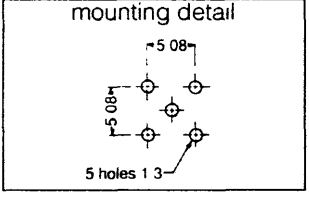
P.C.B. sockets/50 ohm

Straight (male centre contact)

| | | | | |
|---------------------|------------------------|---------------|------------------------|---------------|
| Body Plating | Contact Plating | SMB | Part Number SMC | SMD |
| Gold | Gold | B65N07G999X99 | C65N07G999X99 | D65N07G999X99 |
| Bright Nickel | Gold | B65N07J999X99 | C65N07J999X99 | D65N07J999X99 |

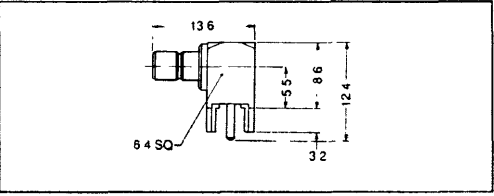
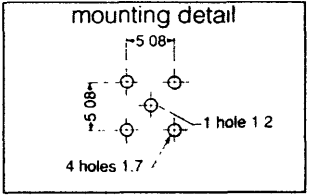
Straight (U.T.E.) (male centre contact)

| | | | | |
|---------------------|------------------------|---------------|------------------------|---------------|
| Body Plating | Contact Plating | SMB | Part Number SMC | SMD |
| Gold | Gold | B65N27G999X99 | C65N27G999X99 | D65N27G999X99 |
| Bright Nickel | Gold | B65N27J999X99 | C65N27J999X99 | D65N27J999X99 |

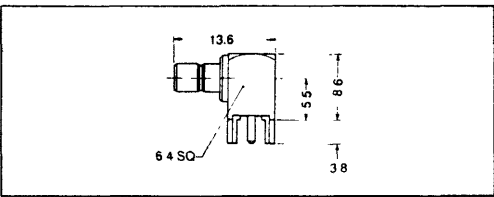
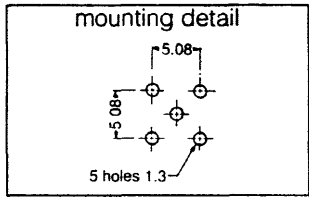
Connectors designated U.T.E. conform to the relevant Union Technique de L'Electricite specification

Elbow (male centre contact)

| | | | | |
|---------------------|------------------------|---------------|------------------------|---------------|
| Body Plating | Contact Plating | SMB | Part Number SMC | SMD |
| Gold | Gold | B65N10G999X99 | C65N10G999X99 | D65N10G999X99 |
| Bright Nickel | Gold | B65N10J999X99 | C65N10J999X99 | D65N10J999X99 |

Elbow (U.T.E.) (male centre contact)

| | | | | |
|---------------------|------------------------|---------------|------------------------|---------------|
| Body Plating | Contact Plating | SMB | Part Number SMC | SMD |
| Gold | Gold | B65N30G999X99 | C65N30G999X99 | D65N30G999X99 |
| Bright Nickel | Gold | B65N30J999X99 | C65N30J999X99 | D65N30J999X99 |

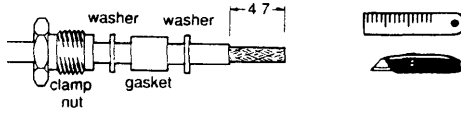
Connectors designated U.T.E. conform to the relevant Union Technique de L'Electricite specification

Preferred part numbers.
 All diagrams are for SMB versions
 All dimensions are nominal
 For 75 ohm versions see pages 25 to 29, or contact our sales office for uncatalogued requirements

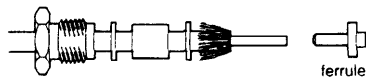
Assembly instructions

Instruction (a)

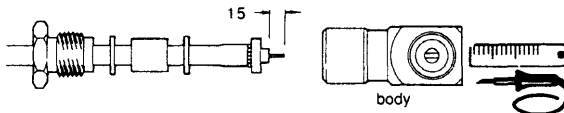
- 1** Slide the clamp nut, washer, gasket and the other washer over the cable, trim cable to dim shown



- 2** Fold back braid. Push ferrule over dielectric to trap braid between outer sheath and ferrule



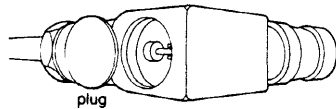
- 3** Trim off surplus braid. Trim dielectric to dimension shown. Tin centre conductor



- 4** Press sub-assembly into body. Engage and tighten clamp nut. Solder centre conductor into slot of contact

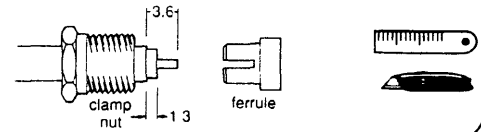


- 5** Insert plug into body and flatten to retain

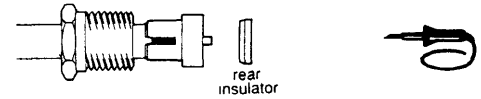


Instruction (b)

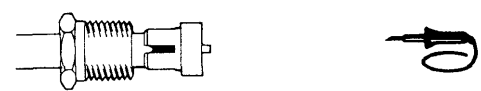
- 1** Slide clamp nut over cable. Trim cable to dimensions shown. Tin outer conductor



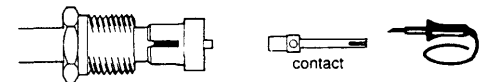
- 2** Fit ferrule so that internal step butts to the end of the outer conductor and solder in place



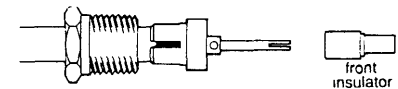
- 3** Slide rear insulator over dielectric to butt against ferrule. Tin centre conductor



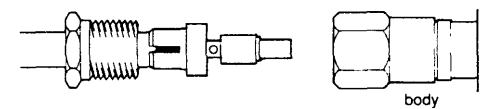
- 4** Fit contact onto centre conductor. Hold contact and cable tightly together and solder



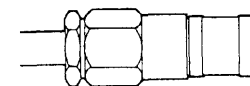
- 5** Slide front insulator over contact until it butts against shoulder.



- 6** Press sub-assembly into body, engage and tighten clamp nut



7

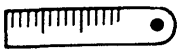


[SMB/C/D 002]

[SMB/C/D 003]

Assembly instructions

Key to symbols



measuring instrument — a rule is shown, but better results are obtained by using a Vernier gauge.



stout trimming blade, suitable for cutting copper wire braid



crimping tool — for more details, see page 31



soldering iron or other suitable soldering equipment



side cutters, also for trimming braid



spanner, of the relevant size for the connector



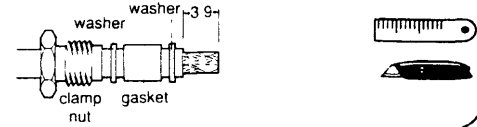
small screwdriver



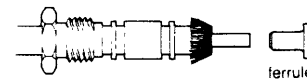
hacksaw, sometimes appropriate for semi rigid cable, although for repetitive operations a power trimmer should be considered

Instruction (a)

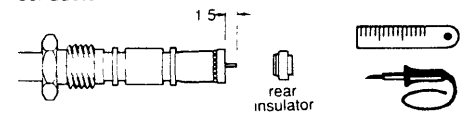
- 1** Slide clamp nut, a washer, gasket and the other washer over the cable trim outer sheath to dimension shown



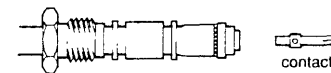
- 2** Fold back braid. Push ferrule over dielectric to trap braid between outer sheath and ferrule



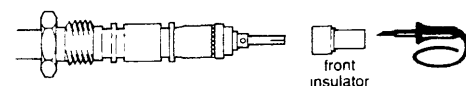
- 3** Trim off surplus braid. Trim dielectric flush with ferrule and check length of centre conductor. Tin centre conductor



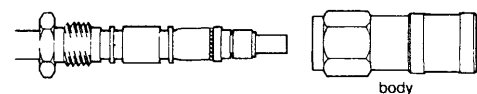
- 4** Slide rear insulator over centre conductor until it butts against ferrule



- 5** Fit contact onto centre conductor until it butts against rear insulator. Hold cable and contact tightly together, and solder



- 6** Fit front insulator over contact until it butts against internal shoulder



- 7** Press sub-assembly into body as far as possible. Engage and tighten clamp nut

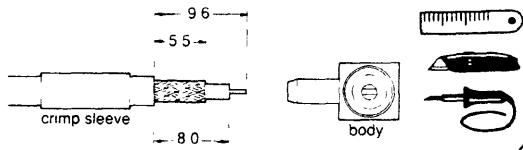


[SMB/C/D 001]

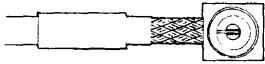
Assembly instructions

Instruction (a)

- 1** Slide crimp sleeve over cable. Trim outer sheath, braid and dielectric as shown. Tin centre conductor.



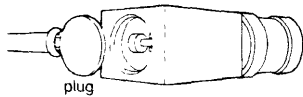
- 2** Slide body sub-assembly between dielectric and braid until braid butts against body. Slit outer sheath if necessary.



- 3** Slide the sleeve forward over cable until it butts against body then crimp the sleeve. Solder centre conductor to the slot in contact.



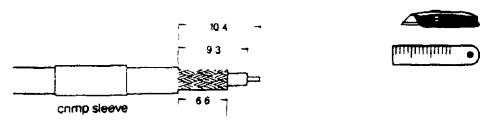
- 4** Insert plug into body and flatten to retain.



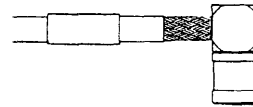
[SMB/C/D 006]

Instruction (b)

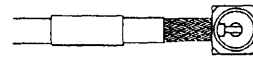
- 1** Slide crimp sleeve over cable and trim to dimensions shown.



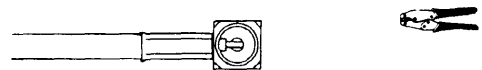
- 2** Slide the projecting body ferrule over the dielectric and under the braid.



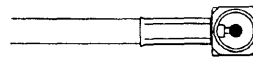
- 3** Ensure that the centre conductor of the cable lies in the slot of the centre contact.



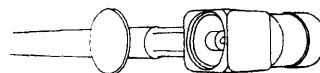
- 4** Slide the crimp sleeve forward, over the braid and crimp.



- 5** Tin centre conductor and solder it to the contact.



- 6** Insert cap in the body to cover the soldered joint. Secure the cap by punching.

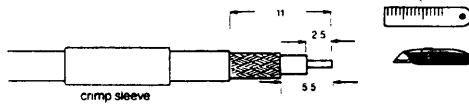


[SMB/C/D 007]

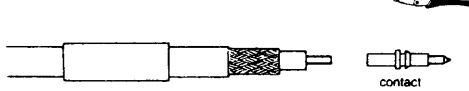
Assembly instructions

Instruction (a)

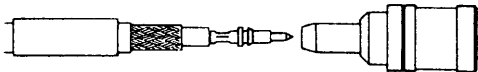
- 1** Place crimp sleeve over sheath and trim cable to the dimensions shown. Ensure that the centre conductor is not damaged.



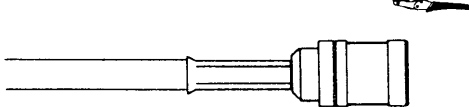
- 2** Place contact on centre conductor and crimp.



- 3** Push contact into body sub-assembly. Ensure the contact 'clicks' into rear insulator with the ferrule between the braid and the dielectric.

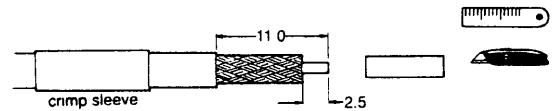


- 4** Slide crimp sleeve over the braid and crimp.

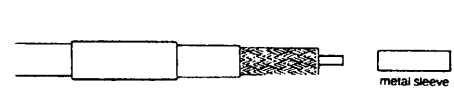


Instruction (b)

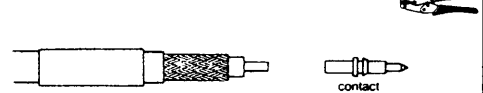
- 1** Place crimp sleeve over sheath and trim to dimensions shown. Ensure that the centre conductor is not damaged.



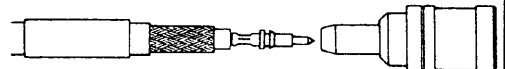
- 2** Place metal sleeve over dielectric and under braid.



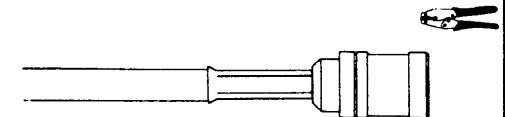
- 3** Place contact onto centre conductor and crimp.



- 4** Push contact into body sub-assembly. Ensure that the contact 'clicks' into rear insulator with the ferrule between the dielectric and the metal sleeve.



- 5** Slide crimp sleeve over braid and crimp.



[SMB/C/D 008]

[SMB/C/D 009]