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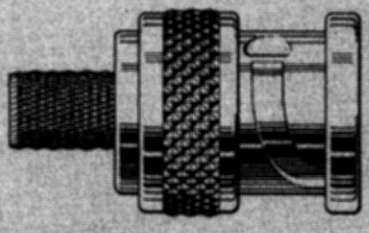
publilar greenpar



BNC
r.f. connectors

the company

The leading UK manufacturer of co-axial connectors and components for r.f. applications, Greenpar has, since 1972, been part of the highly successful Dubilier plc group, which includes other connector and component manufacturing companies. Greenpar's expansion over the last decade has been rapid – and this growth is planned to continue in line with market demands for existing products and through the introduction of new ranges currently under development and planned for the future.

design

In order to provide connector designs of precise specification, the design & development team uses the latest test and evaluation equipment. Such investments keep Greenpar in the forefront of connector development for the most demanding high frequency applications in satellites, telecomms and avionics.

quality

Greenpar maintains vigorous quality control of all aspects of product manufacture. The quality assurance function monitors each stage of production, from receipt of raw material through to final assembly, with well equipped test and inspection facilities.
Greenpar is an approved source of supply for military applications and holds approval under MOD, DEF-STAN 05-21 requirements for the design and manufacture of co-axial connectors and r.f. components. In addition, British Telecom, the Civil Aviation Authority and many major company approval certificates are held. These, together with BS 9000 approval, enable Greenpar to offer its range of products to the widest possible market.

production

In all areas of production, great importance is given to the use of the most up to date manufacturing technologies. Automation is used extensively in production, from the fully automatic and computer controlled machining of piece parts, through plating and assembly to the final packaging of the products.

the future

The success of the Company has been built on a programme of expansion to support increased market penetration, combined with improved manufacturing methods. The policy is to maintain this approach, by advancing into new product areas and other high technology connector products, based on the continual development of the design and manufacturing facilities within the Company.
Parallel with this activity, the development of export markets is being increased with exports now a major proportion of company turnover.

location

On the east side of Harlow on the A1184 (formerly A11), 100 yards north of the round-about at Gates (Ford) garage, across the line from Harlow Mill B.R. Station. Good communication links provide easy access to London, by rail direct to Liverpool Street Station, or by road via the M11 Motorway, 20 minutes from the M25 junction.

mercury . . .

metallic, attractive and intriguing, used as the backdrop to the representative connector drawing for each section cover in the multi-part catalogue from Greenpar. The image has been chosen for its unique qualities and associations of precision, to provide a unifying theme, distinctive through its individuality.

The Greenpar Connectors catalogue is divided into sections according to the different connector series and product types for clarity. Page 43 gives a brief description of some of the other ranges of product manufactured by Greenpar Connectors, whilst the supplementary shortform catalogue includes photographs of typical connectors from each range.

This section of the catalogue lists all BNC products and related accessories. Photographs of typical examples of each style can be seen on page 4. 'BNC' stands for 'a bayonet coupled connector' although the abbreviation evolved when the range was developed from the existing B series, the N series designed by Neill and the C series which was designed by Carl Concelman. The two designers worked together to produce the derivitive BNC series for smaller cables for which demand was increasing at the time.

The inside rear cover shows a listing of those cables which are commonly used with BNC connectors, divided into groups each with its own three digit reference. Throughout this catalogue there are products which have been designed with several variants to allow for the different physical characteristics of different cables. The essential features of the product are the same for each variant, hence the basic elements of the part number remain the same and only the three digits for the cable group would change. A product listed thus:
B35 A41 E010 X99
007
022
A25
060 (a crimped free plug) can be specified for any of the cables in the five different groups and have further variations of finish and of the manner by which it is packed and marked.
See page 5 for a full explanation of the part number.

On the following pages are notes which are intended to guide you through some of the complexities inherent in a product range which has developed over many years and applies to so many different applications. Check the contents page to select the information which you require, for background or specific product detail. If your requirements are not met by this catalogue, please remember that the sales office is available for technical advice regarding applications, variations and availability.

The Greenpar range of BNC connectors is particularly extensive, covering many US MIL specification types, British Telecom and Greenpar proprietary designs. These products are manufactured to ensure compatibility with the latest British Standard BS9000 and IEC mating face requirements and are therefore fully intermatable with connectors manufactured to both these specifications and to the US specification MIL-C-39012

Connectors are available in both 50ohm and 75ohm intermatable versions for use with cables up to 10mm (approx) diameter.

standard performance for BNC
VSWR (typical) less than 1.2, up to 4 GHz
working voltage: 500V peak
proof voltage: 2000V peak
ambient temperature range: -55°C to +150°C

glossary of terms

plug a connector for fitting to the free end of a coaxial cable and incorporating the coupling nut, ring or sleeve. With the exception of certain miniature connectors, it also has a male centre contact.

jack a connector for fitting to the free end of a coaxial cable, suitable for mating with the appropriate plug. It generally has a female centre contact.

socket a connector for panel or bulkhead mounting, suitable for mating with the appropriate plug and having a solder spill for attachment of equipment wire.

panel socket a socket with a square or lozenge-shaped flange, drilled or tapped with 2 or 4 holes for fixing to the panel.

bulkhead socket a socket designed for single hole fixing in the panel or bulkhead, retained by a single fixing nut.

panel jack a jack which accepts coaxial cable and which is suitable for panel mounting with 2 or 4 fixing holes.

bulkhead jack a jack which accepts coaxial cable and which is suitable for single-hole fixing in the panel or bulkhead.

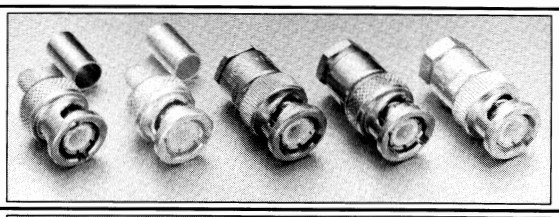
elbow a prefix used to indicate a 90° relationship between the mating face axis and the mounting or cable entry axis.

m or **f** a suffix indicating the gender of a centre contact: **m** for male, **f** for female (note: the IEC specifications apply the term 'socket' to items designated "jack" and "socket" above. The separate terms are retained in this catalogue for consistency with earlier publications and for clarity.

The following factors should be considered when selecting a connector

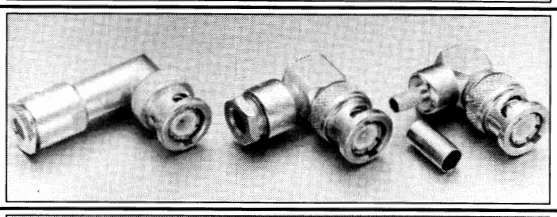
Series	(application and compatibility)
Impedence	(50 or 75 ohms)
Style	(plug, jack, adaptor etc.)
Finish	(various plating finishes are available)
Cable	(which cable, to solder or crimp)
Packing	

straight plugs



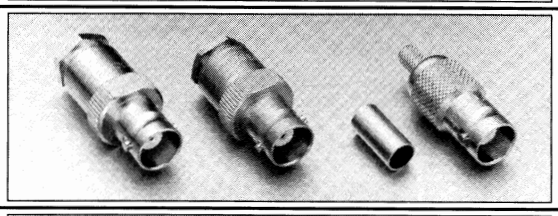
- crimp or clamp cable entry
- crimp or solder centre contact
- for cables up to approx 10mm diameter

elbow plugs



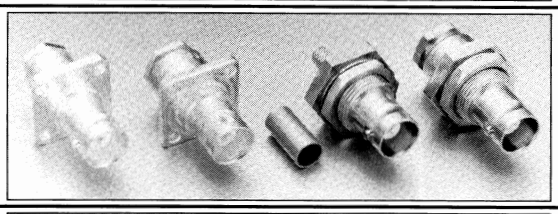
- crimp or clamp cable entry
- crimp or solder centre contact
- cables up to approx 10mm diameter

free jacks



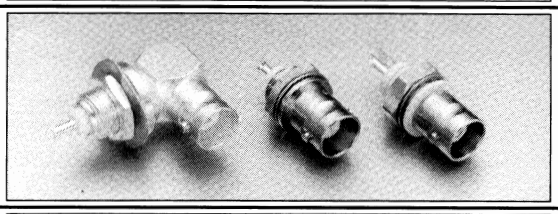
- crimp or clamp cable entry
- crimp or solder centre contact
- panel items have plain or tapped holes
- cables up to approx 10mm diameter

bulkhead & panel jacks



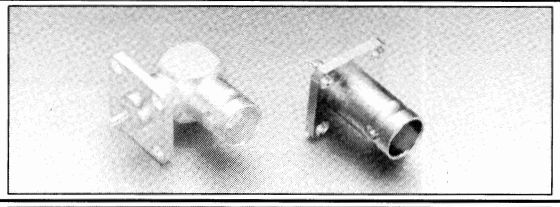
- crimped cable entry or solder spill
- panel items have plain or tapped holes

bulkhead sockets



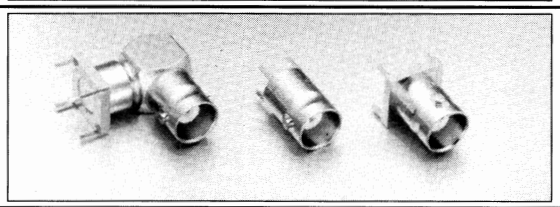
- many sizes to suit different panel cut-outs
- sealed or unsealed
- panel insulated and elbow styles are available

panel sockets



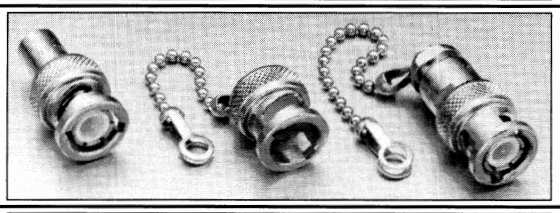
- straight or elbow
- enlarged flange or 2 hole variants

PCB sockets



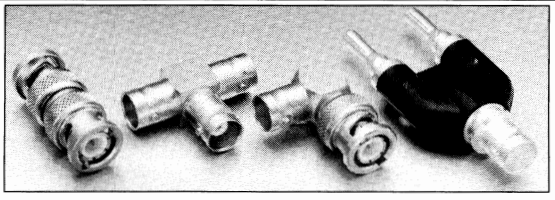
- straight and elbow
- 'stepped' legs prevent build up of flux
- insulated body '2 option mounting' versions

caps & terminations



- plain caps, with or without chains
- resistor plugs with or without chains
- terminations with resistor

adaptors



- straight and elbow styles
- T adaptors
- male/male & female/female styles
- straight panel and bulkhead styles
- BNC 'banana' adaptors

The Greenpar part numbering system uses 13 digits and is designed to accommodate all aspects of the product. The number has been adapted for use on as wide a variety of computers as possible and although it is entered as a continuous string, it can be broken by spaces for easier use and recollection. Specifying the full part number is the best way of ordering, but clearly it is important to have the correct combination. Our Sales office can help in case of doubt regarding the variants available for any given connector and therefore the correct number to use.

Each part of the number has its own meaning according to the listing shown below. The number is analysed as follows.

B 3 5 A 1 2 E 2 7 6 X 9 9

series — B 3

All the connectors in this catalogue will begin with B3, i.e. BNC. Here are some examples of other series.

BNC = B3	UHF = U4	SMB = B6	MCX = M6
TNC = T3	TNO = T7	SMC = C6	SHV = S3
N = N1	SMA = A6	SMD = D6	ISA = A5

impedance — 5

three numbers are in general use:
5 = 50 ohms, 7 = 75 ohms, 0 = no significant impedance

style — A

plug = A	jack = E	panel skt = K	adaptor = R
elbow plug = B	elbow jack = F	b/head skt = M	
panel plug = C	panel jack = G	PB skt = N	
b/head plug = D	b/head jack = H	adaptor = P	

number — 1 2

These two digits are given to each connector at the time it is drawn and are purely sequential.
Note: there is no correlation between items from different ranges which have the same number: e.g. plug 12 (BNC) is not necessarily related to plug 12 (TNC)
The number is allocated on the basis of 'first drawn, first numbered'.

finish — E

There are three finishes in frequent use with BNC connectors, but any other finish can be considered.
Code E: silver plated body and inner contact.
Code H: nickel plated body and silver plated inner contact.
Code J: nickel plated body and gold plated inner contact.

cable group — 2 7 6

Owing to the enormous range of cable for which connectors are made: Greenpar classifies them into groups. All connectors made for a particular cable group will fit all the cables in that group. See inside the rear cover of the catalogue for details.
For example: cable group 010 includes the following cables:
RG-58/U, RG-58C/U, RG-141A/U, RG-142B/U
URM43, URM76,
BICC T3010

fixing — X

This digit is only used for items which can be fitted into or onto a panel. The letter 'X' is used for all others and serves as a 'filler'
For example: A = 2.6mm holes in a 12.5mm flange. (see page 6)

marking & packing — 9 9

Standard items are usually identified with Greenpar part numbers and individually packed in Greenpar bags. Other options are possible by arrangement.

Certain accessory parts eg. moulded sleeves, do not carry connector part numbers. They are identified by numbers beginning ST. . . . .

plating finishes

code E

Silver plated and passivated body and inner contact.

Silver provides low contact resistance, mechanical endurance and good r.f. performance. Some visual deterioration of the finish may occur in storage and service, but this is minimised by passivation processes which maintain good appearance and 'solderability'.

code H

Bright nickel plated body and silver plated inner contact.

The use of bright nickel as a body finish produces a connector of an attractive appearance which will endure for longer periods than silver. It is also preferred for its compatibility with instrument front panels. Nickel is marginally inferior to silver in r.f. terms.

code J

Bright nickel plated body and gold plated inner contact.

Gold is an alternative finish for inner contacts, preferred for some applications in some market areas. The combination of nickel plated body and gold plated contact is standard. In most applications there is little difference between silver and gold in performance, although the improved corrosion resistance of gold may be valuable in harsh environments.

other finishes

Other combinations of finishes can be considered for special applications. Standard finishes for other connector ranges are described in the relevant catalogue sections.

panel fixing

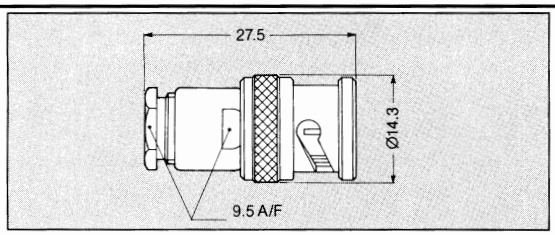
These codes denote the size and threads of the fixing holes in the flange of panel mounted items, when appropriate. The default letter is X, which means that the item, eg. a free plug, has no fixing holes.

A = 2.6mm holes in 12.5mm flange
B = no holes
D = M2.5
E = No. 3-56 UNF-2B
F = No. 4-40 UNC-2B
G = No. 6 BA
H = 0.120 dia holes in 11/16 flange
J = No. 6-32 UNC-2B
K = 0.110 dia
L = 0.087 dia
M = 0.089 dia
N = No. 8 BA
Q = 0.147 dia
S = Accessories
W = Wire locking
X = Default/filler code

packing

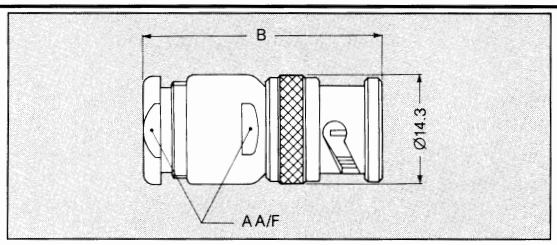
Standard items are usually identified with Greenpar part numbers and individually packed in Greenpar bags. Other options are possible.

free plugs



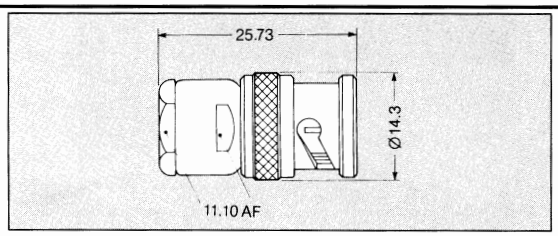
Series	Impedance	Style	Number	Finish	Cable	assy. notes page	cable retention
B35	A01	•	010	X99		31(A)	captive contact, pressure sleeve cable clamp
			022			31(A)	as above
			073			36(A)	as above
			030			31(A)	as above
			024			31(A)	as above
			029			31(A)	as above
B35	A11	•	010	X99		32(B)	UG – style item, non-captive contact
B37	A48	•	025	X99		32(B)	as above

free plugs



Series	Impedance	Style	Number	Finish	Cable	A	B	assy. notes page	cable retention
B35	A06	•	010	X99		28.5	11.1	32(A)	UG – style item, non-captive contact, V groove gasket
B35	A07	•	010	X99		28.5	11.1	34(B)	captive contact, V groove gasket, braid clamp
B37	A07	•	025	X99		28.5	11.1	34(B)	as above
B35	A18	•	010	X99		27.8	11.1	32(A)	UG – style item, non captive, contact, V groove gasket
B37	A19	•	025	X99		28.0	11.1	32(A)	as above
B37	A47	•	025	X99		28.0	11.1	32(A)	as above
B35	A70	•	010	X99		28.5	11.1	31(A)	captive contact, pressure sleeve cable clamp
			009					31(A)	as above
			022					31(B)	as above
			060					31(A)	as above
B37	A70	•	012	X99		28.5	11.1	31(A)	captive contact, pressure sleeve cable clamp
			022					31(B)	as above
			025					31(A)	as above
			030					31(A)	as above
			052					31(A)	as above
			062					31(A)	as above
			117					31(A)	as above
			119					31(A)	as above
B35	A71	•	041	X99		30.4	12.7	31(A)	captive contact, pressure sleeve cable clamp
			079					31(A)	as above
			074					31(A)	as above
			027					31(A)	as above
B37	A71	•	007	X99		30.4	12.7	31(A)	captive contact, pressure sleeve cable clamp
			027					31(A)	as above
			028					31(A)	as above
			079					31(A)	as above

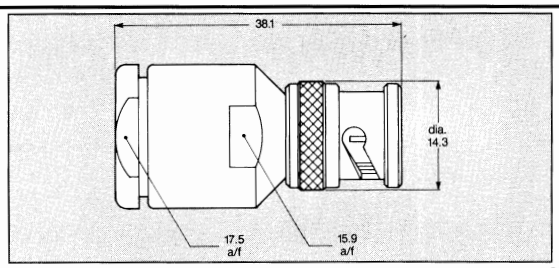
free plugs



Series	Impedance	Style	Number	Finish	Cable	assy. notes page	cable retention
B37	A53	•	025	X99		38(A)	3 part rapid assembly with tapered ferrule

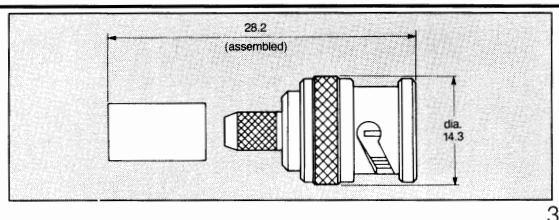
for an explanation of the part number, see page 5

free plugs
for large cables



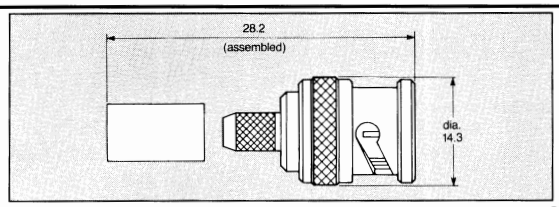
Series	Impedance	Style	Number	Finish	Cable	assy. notes page	cable retention
B35	A03	•	001	X99		35(A)	captive contact, pressure sleeve cable clamp
			004			35(A)	as above

free plugs (crimp)



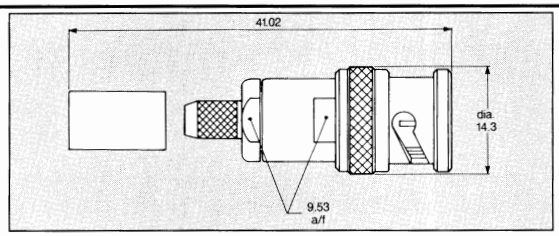
Series	Impedance	Style	Number	Finish	Cable	assy. notes page	(see page 28)
B35	A41	•	010	X99		33(A)	30039 or 30040 check page 29 for availability of strain relief sleeves.
			007			33(A)	30039
			022			33(B)	30039 or 30040
			A25			33(A)	as above
			060			33(A)	as above
B37	A41	•	007	X99		33(A)	30039 (30039 requires a separate die set)
			012			33(A)	30039 or 30040
			022			33(B)	as above
			A25			33(A)	as above
			B25			33(A)	as above
			C25			33(A)	as above
			D25			33(A)	as above
			052			33(A)	as above
			350			33(A)	as above
B37	A55	•	062	X99		33(A)	as above
			117			33(A)	as above

free plug (crimp)
easy assembly



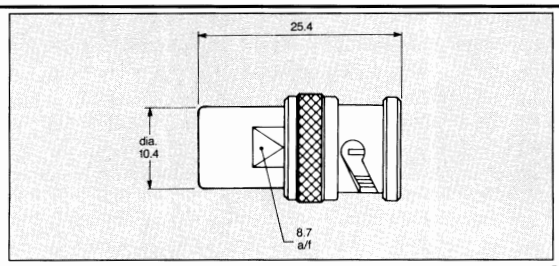
Series	Impedance	Style	Number	Finish	Cable	assy. notes page	(see page 28)
B37	A74	•	A25	X99	pre-fitted centre contact	38(B)	30039 (and die set) or 30040

free plugs (BT crimp)



Series	Impedance	Style	Number	Finish	Cable	assy. notes page	(see page 28)
B37	A91	•	030	X99		37(A)	30039 and die set
			062			37(A)	as above
			117			37(A)	as above
			167			37(A)	as above

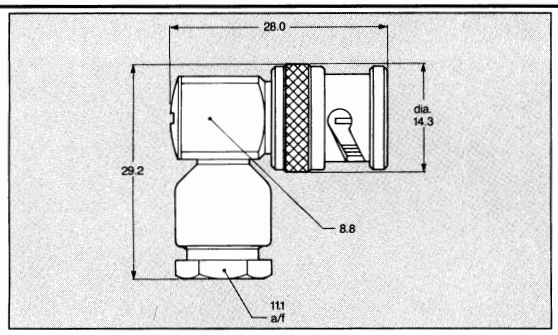
free plug
(twist-on)



Series	Impedance	Style	Number	Finish	Cable	assy. notes page	
B37	A96	•	A25	X99		38(C)	one part design with pre-fitted centre contact for rapid twist-on assembly

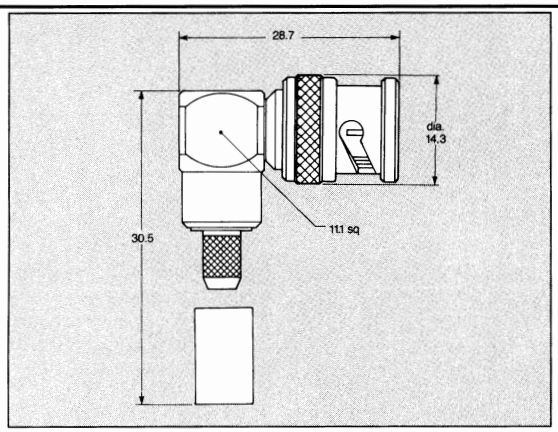
for an explanation of the part number, see page 5.

elbow plugs



Series	Impedance	Style	Number	Finish	Cable	assy. notes	page	
B35	B02	•	009	X99		39(A)		captive contact, pressure sleeve cable clamp
			010			39(A)		as above
			022			39(B)		as above
			024			39(B)		as above
			029			39(A)		as above
			030			39(A)		as above
			060			39(A)		as above
			073			36(B)		as above
B37	B02	•	010	X99				captive contact, pressure sleeve cable clamp
			012			39(A)		as above
			117			39(A)		as above
			119			39(A)		as above
			022			39(B)		as above
			025			39(A)		as above
			030			39(A)		as above
			052			39(A)		as above
			062			39(A)		as above
B35	B12	•	010	X99		34(A)		captive contact, V groove gasket, braid clamp
B37	B12	•	025	X99		34(A)		as above

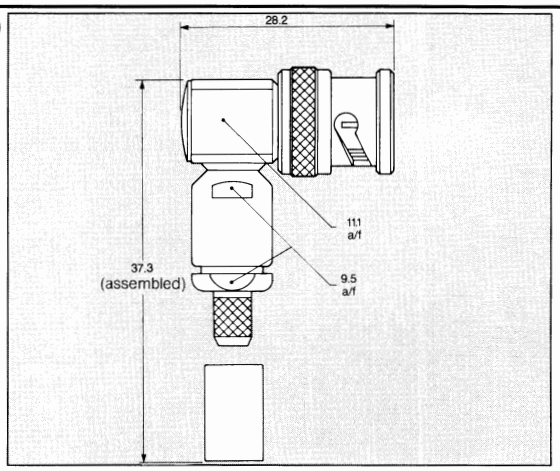
elbow plugs (crimp)



Series	impedance	Style	Number	Finish	Cable	assy. notes	page	
								(see page 28)
B35	B28	•	A25	X99		33(A)		30039 or 30040 check page 29 for availability of strain relief sleeves.
			010			33(A)		as above
			007			33(A)		as above
			022			33(B)		as above
			060			33(A)		as above (30039 requires a separate die set)
B37	B28	•	012	X99		33(A)		as above
			052			33(A)		as above
			007			33(A)		as above
			022			33(B)		as above
			A25			33(A)		as above
			350			33(A)		as above
B37	B42	•	B25	X99		33(A)		as above

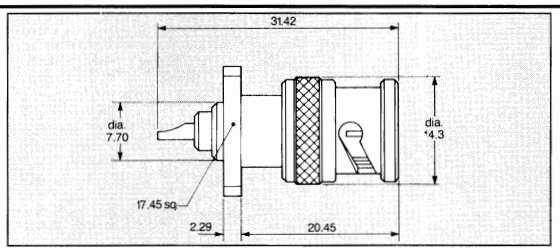
for an explanation of the part number, see page 5.

elbow plugs (BT crimp)

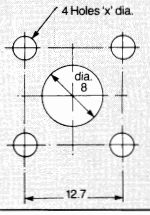


Series	Impedance	Style	Number	Finish	Cable	assy. notes page	⊢⊐ (see page 28)
B37	B92	•	030	X99		37(B)	30039 and die set.
			062			37(B)	as above
			117			37(B)	as above
			167			37(B)	as above

panel plugs



mounting detail

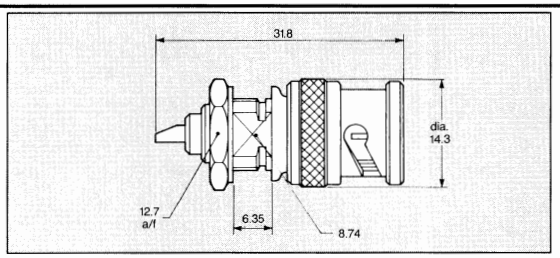


fixing hole sizes (see part number)
M2.5 × 0.45 – 6H = D
3.56 UNF = E
4.40 UNC = F
6 BA = G
3.0mm = H
2.8mm = K

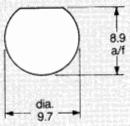
Series	Impedance	Style	Number	Finish	assy. notes page
B35	C86	•	999	†99	
B37	C86	•	999	†99	30039 and die set.

* select the required hole size from the list and enter the letter in the part number

bulkhead plugs

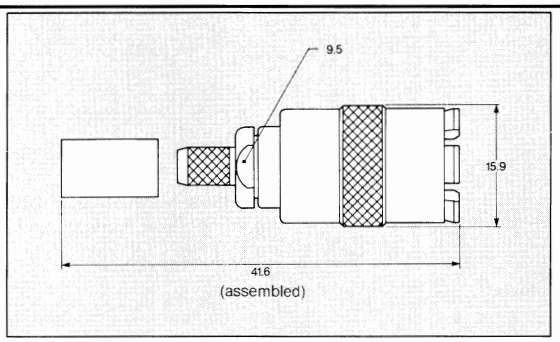


mounting detail



Series	Impedance	Style	Number	Finish	assy. notes page
B35	D76	•	999	X99	
B37	D76	•	999	X99	

collet lock plug

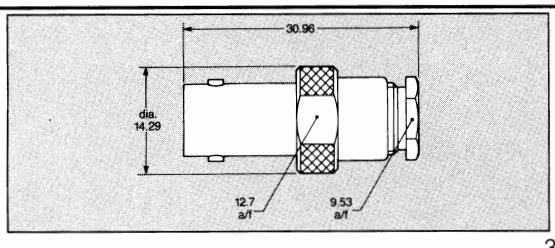


Greenpar collet lock plugs mate with standard BNC sockets, but utilise a special collet lock mechanism in place of the normal BNC bayonet coupling. This gives consistent and much improved screening efficiency together with low contact resistance in the outer co-axial path, use of these connectors provides the opportunity to upgrade the overall screening performance of systems using BNC sockets, with consequent benefits in respect of reduced r.t. leakage and reduced susceptability to external interference signals. The level of screening provided is better than that needed to compliment double braided cables, and is appropriate for many of the newly developed superscreened cables – for example, those developed at UKAEA Winfrith. The connectors use crimped terminations for inner conductor and screen.

Series	Impedance	Style	Number	Finish	Cable	assy. notes page	⊢⊐
B35	A26	•	010	X99	captive contact	40(A)	30039 (and separate die set)
			060		as above	40(A)	as above
			062		as above	40(A)	as above
			344		as above	40(B)	as above
			339		as above	40(B)	as above
B37	A26	•	062	X99	as above	40(A)	as above

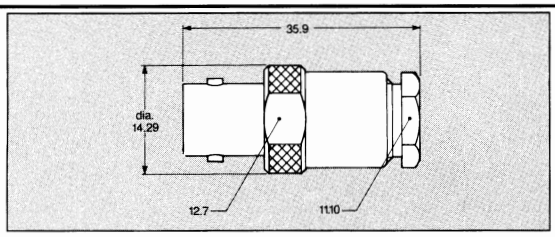
for an explanation of the part number, see page 5.

free jacks



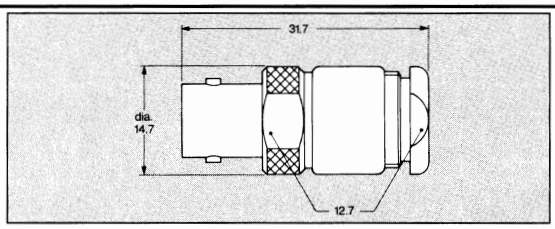
Series	Impedance	Style	Number	Finish	Cable	assy. notes	page	
B35	E03	•	010	X99		31	(A)	captive contact, pressure sleeve cable clamp
			024			31	(B)	as above
			022			31	(B)	as above
			029			31	(A)	as above
			030			31	(A)	as above
			073			36	(A)	as above
B35	E13	•	010	X99		32	(B)	UG – style item, non-captive contact
B37	E21	•	025	X99		32	(B)	as above

free jacks (crimp)



Series	Impedance	Style	Number	Finish	Cable	assy. notes	page	
B35	E06	•	010	X99		32	(A)	UG – style item, non-captive contact
B35	E07	•	010	X99		34	(B)	captive contact, V groove gasket, braid clamp
B37	E07	•	025	X99		34	(B)	as above
B35	E20	•	010	X99		32	(A)	UG – style item, non-captive contact, V groove gasket
B37	E22	•	025	X99		32	(A)	as above
B35	E60	•	009	X99		31	(A)	captive contact, pressure sleeve cable clamp
			010			31	(A)	as above
			022			31	(B)	as above
			060			31	(A)	as above
B37	E60	•	009	X99		31	(A)	captive contact, pressure sleeve cable clamp
			012			31	(A)	as above
			022			31	(B)	as above
			025			31	(A)	as above
			030			31	(A)	as above
			052			31	(A)	as above
			062			31	(A)	as above
			117			31	(A)	as above
			119			31	(A)	as above

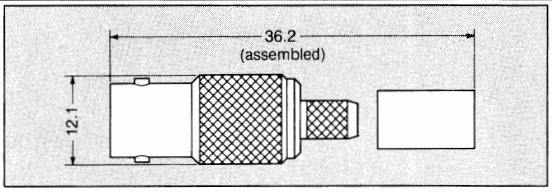
free jacks (crimp)



Series	Impedance	Style	Number	Finish	Cable	assy. notes	page	
B35	E61	•	041	X99		31	(A)	captive contact, pressure sleeve cable clamp
			079			31	(A)	as above
			074			31	(A)	as above
			027			31	(A)	as above

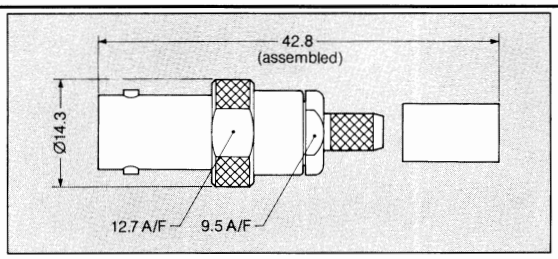
for an explanation of the part number, see page 5.

free jacks (crimp)



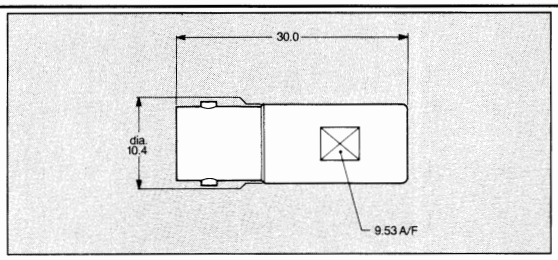
Series	Impedance	Style	Number	Finish	Cable	assy. notes page	(see page 28)
B35	E43	•	007	X99		33(A)	30039 or 30040 check page 29 for availability of strain relief sleeves.
			010			33(A)	as above
			022			33(B)	as above
			060			33(A)	as above
			A25			33(A)	as above (30039 requires a separate die set)
B37	E43	•	007	X99		33(A)	as above
			012			33(A)	as above
			022			33(B)	as above
			052			33(A)	as above
			350			33(A)	as above
			A25			33(A)	as above
			B25			33(A)	as above
			C25			33(A)	as above
			D25			33(A)	as above

free jacks (crimp)



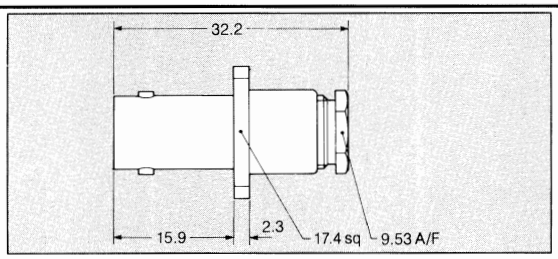
Series	Impedance	Style	Number	Finish	Cable	assy. notes page	(see page 28)
B37	E93	•	117	X99		37(A)	30039 and die set.
			167			37(A)	as above
			030			37(A)	as above
			062			37(A)	as above

free jack (twist-on)

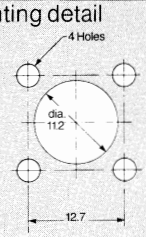


Series	Impedance	Style	Number	Finish	Cable	assy. notes page	
B37	E96	•	A25	X99		38(C)	one part design with pre-fitted centre contact for rapid twist-on assembly.

panel jacks



mounting detail



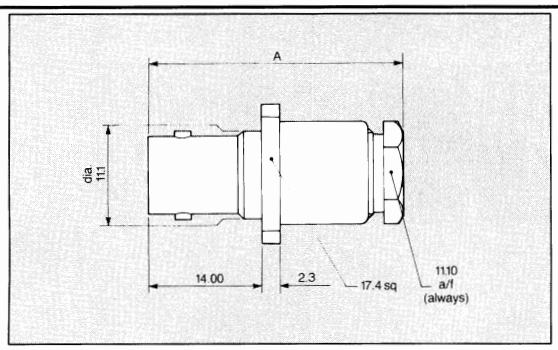
fixing hole sizes (see part number)
M2.5 × 0.45 – 6H = D
3.56 UNF = E
4.40 UNC = F
6 BA = G
3.0mm = H
2.8mm = K

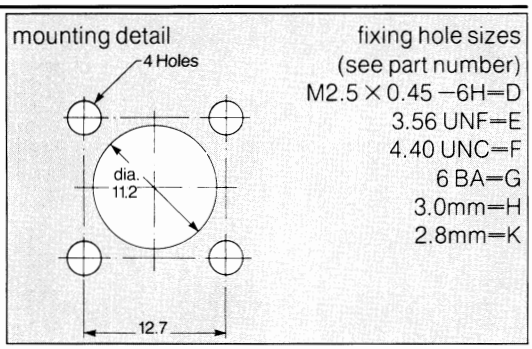
Series	Impedance	Style	Number	Finish	Cable	Fixing	assy. notes page	
B35	G04	•	010		*99		31(A)	captive contact, pressure sleeve cable clamp.
			029				31(A)	as above
			030				31(A)	as above
			022				31(B)	as above
			024				31(B)	as above
			073				36(A)	as above
B35	G14	•	010		*99		32(B)	UG – style item, non-captive contact.
B37	G23	•	025		*99		32(B)	as above

* select the required panel fixing hole size from the list and add the code to the part number

for an explanation of the part number, see page 5.

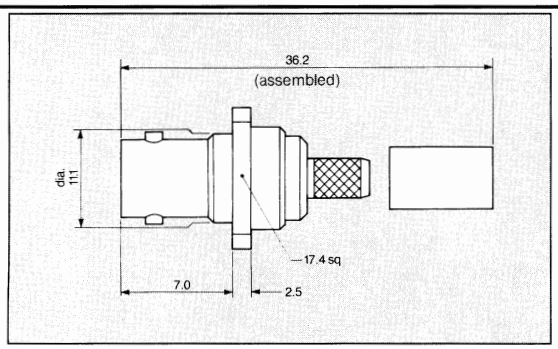
panel jacks

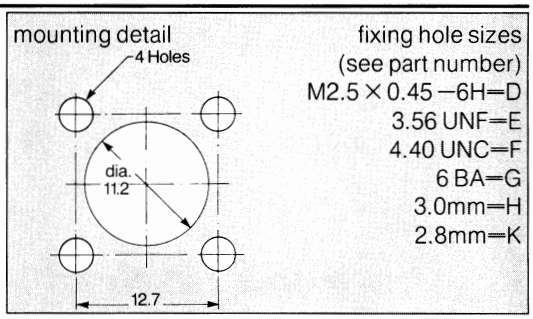




Series Impedance Style Number Finish Cable Fixing	dim A	assy. notes page	
B35 G06 •010 †99	31.0	32(A)	UG - style item, non-captive contact, V groove gasket
B35 G07 •010 †99	31.0	34(B)	captive contact, V groove gasket braid clamp
B37 G07 •025 †99	31.0	34(B)	as above
B35 G24 •010 †99	31.0	32(A)	UG - style item, non-captive contact, V groove gasket
B37 G25 •025 †99	30.0	32(A)	as above
B37 G35 •025 †99	30.0	32(A)	as above
B35 G57 •010 †99	31.0	31(A)	captive contact, pressure sleeve cable clamp
009		31(A)	as above
060		31(A)	as above
022		31(B)	as above
B37 G57 •012 †99	31.0	31(A)	captive contact, pressure sleeve cable clamp
022		31(B)	as above
025		31(A)	as above
030		31(A)	as above
052		31(A)	as above
062		31(A)	as above
117		31(A)	as above
119		31(A)	as above

panel jacks (crimp)



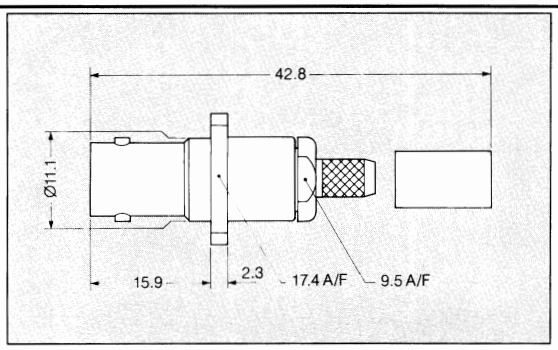


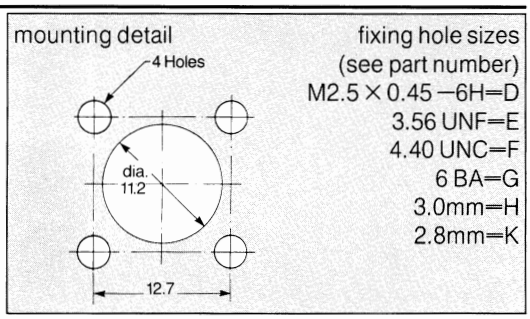
Series Impedance Style Number Finish Cable Fixing	assy. notes page	
	(see page 28)	
B35 G44 •007 †99	33(A)	30039 or 30040 see page 29 for availability of strain relief sleeves
010	33(A)	as above
022	33(B)	as above
A25	33(A)	as above
060	33(A)	as above (30039 requires a separate die set)
B37 G44 •007 †99	33(A)	as above
012	33(A)	as above
022	33(B)	as above
A25	33(A)	as above
B25	33(A)	as above
C25	33(A)	as above
D25	33(A)	as above
052	33(A)	as above
350	33(A)	as above

†select the required panel fixing hole size from the list and add the code to the part number

for an explanation of the part number, see page 5.

panel jacks (crimp)

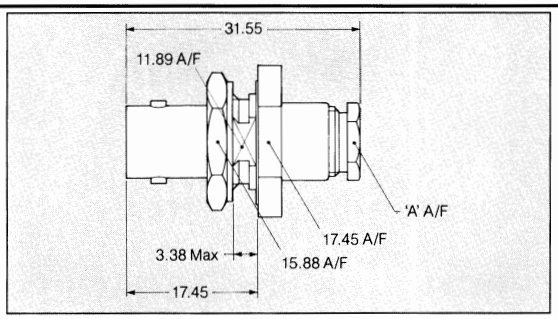


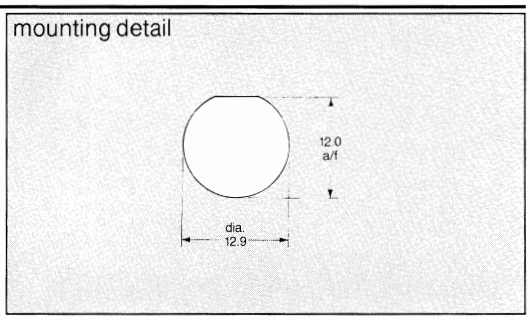


Series	Impedance	Style	Number	Finish	Cable	Fixing	assy. notes	page
								(see page 28)
B37	G	94	•	030	†	99	37(A)	30039 (and separate die set)
				062			37(A)	as above
				117			37(A)	as above
				167			37(A)	as above

†select the required panel fixing hole size from the list and add the code to the part number

bulkhead jacks

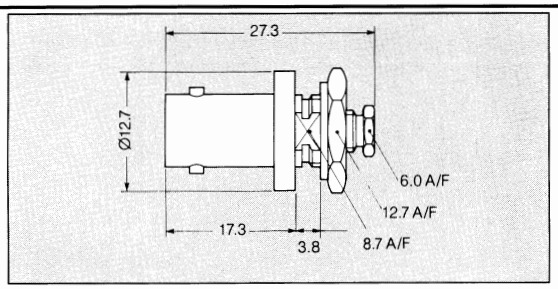




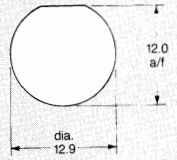
Series	Impedance	Style	Number	Finish	Cable	dim A	assy. notes	page	
B35	H	05	•	010	X99	11.10	32(A)		UG - style item, non-captive contact, V groove gasket
B35	H	06	•	010	X99	11.10	32(A)		as above
B37	H	07	•	025	X99	11.10	34(B)		captive contact, V groove gasket, braid clamp
B35	H	30	•	010	X99	9.53	31(A)		captive contact, pressure sleeve cable clamp
				022			31(B)		as above
				024			31(B)		as above
				029			31(A)		as above
				030			31(A)		as above
				073			36(A)		as above
B35	H	39	•	009	X99	11.10	31(A)		captive contact, pressure sleeve cable clamp
				010			31(A)		as above
				022			31(B)		as above
				060			31(A)		as above
B35	H	07	•	010	X99	11.10	34(B)		captive contact, V groove gasket, braid clamp
B37	H	39	•	012	X99	11.10	31(A)		captive contact, pressure sleeve cable clamp
				022			31(B)		as above
				025			31(A)		as above
				030			31(A)		as above
				052			31(A)		as above
				062			31(A)		as above
				117			31(A)		as above
				119			31(A)		as above
B37	H	40	•	025	X99	11.10	32(A)		UG - style item, non-captive contact, V groove gasket
B37	H	50	•	025	X99	11.10	32(A)		as above

for an explanation of the part number, see page 5.

bulkhead jacks
for miniature cables
(front mount)

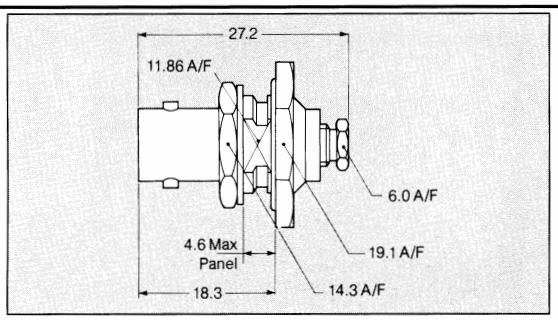


mounting detail

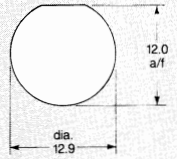


Series	Impedance	Style	Number	Finish	Cable	assy. notes page	
B35	H81	•	024	X99		35(B)	captive contact, pressure sleeve cable clamp
and			022			35(B)	as above

bulkhead jacks
for miniature cables
(rear mount)

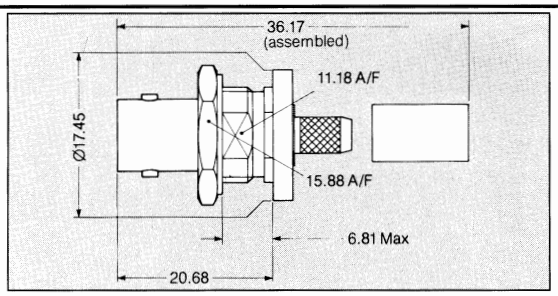


mounting detail

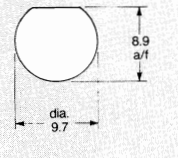


Series	Impedance	Style	Number	Finish	Cable	assy. notes page	
B35	H03	•	024	X99		35(B)	captive contact, pressure sleeve cable clamp
and			022			35(B)	as above

bulkhead jacks (crimp)



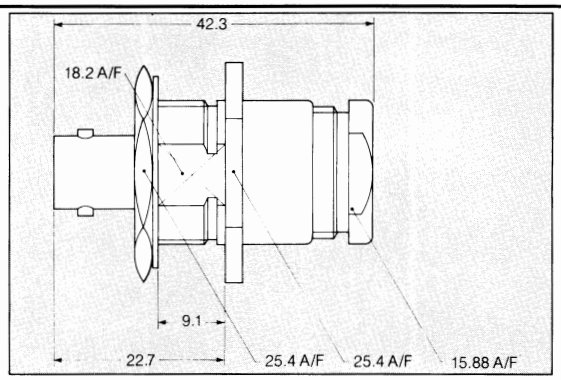
mounting detail



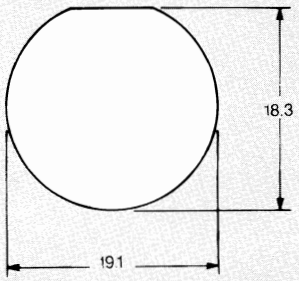
Series	Impedance	Style	Number	Finish	Cable	assy. notes page	
B37	H79	•	B25	X99		33(A)	captive contact.

for an explanation of the part number, see page 5.

bulkhead jacks
for large cables

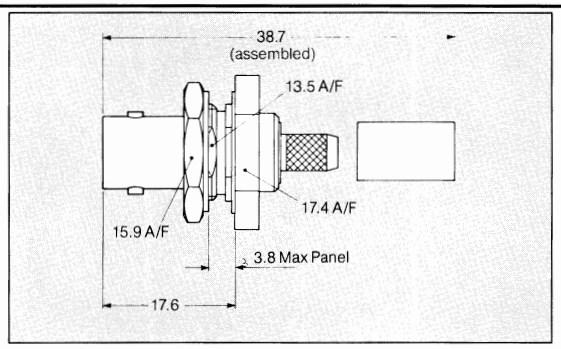


mounting detail

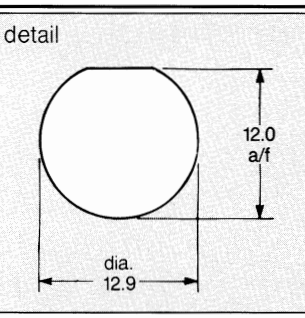


Series Impedance Style Number Finish	assy. notes page	
B35 H79 •001 X99	35(A)	captive contact, pressure sleeve cable clamp
004	35(A)	as above

bulkhead jacks (crimp)

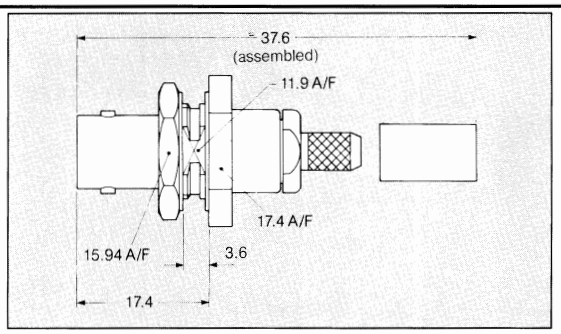


mounting detail

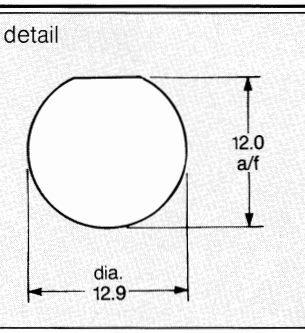


Series Impedance Style Number Finish	assy. notes page	
		(see page 28)
B35 H45 •007 X99	33(A)	30039 check page 29 for availability
010	33(A)	30039 or 30040 of strain relief sleeves
022	33(B)	as above
A25	33(A)	as above
060	33(A)	as above (30039 requires a separate die set)
B37 H45 •007 X99	33(A)	30039
012	33(A)	30039 or 30040
022	33(B)	as above
A25	33(A)	as above
B25	33(A)	as above
C25	33(A)	as above
D25	33(A)	as above
052	33(A)	as above
350	33(A)	as above

bulkhead jacks (crimp)



mounting detail

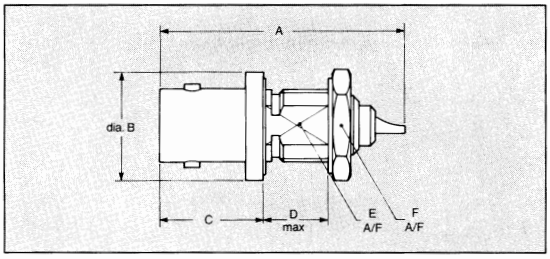


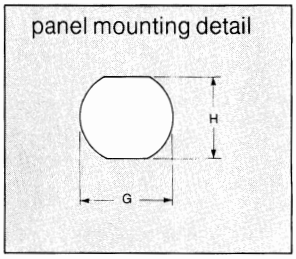
Series Impedance Style Number Finish	assy. notes page	
B37 H95 •030 X99	37(A)	
062	37(A)	
117	37(A)	
167	37(A)	

for an explanation of the part number, see page 5.

bulkhead sockets

panel sealed

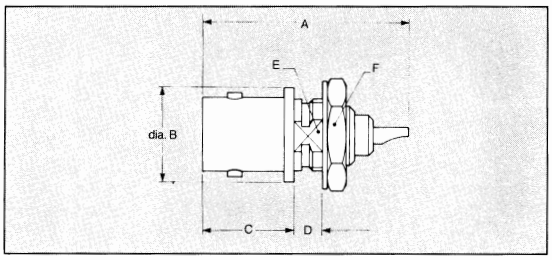


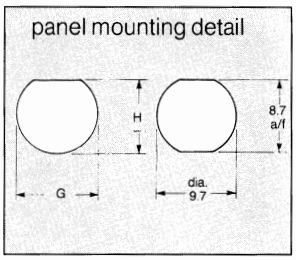


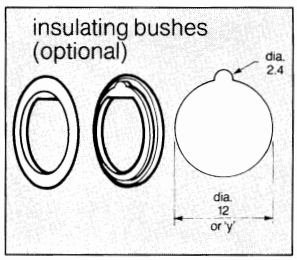
Series Impedance Style Number Finish	A	B	C	D	E	F	G	H
B35 M08 •999 X99	32.0	14.3	13.7	7.4	8.5	14.3	9.7	8.7
B37 M08 •999 X99	32.0	14.3	13.7	7.4	8.5	14.3	9.7	8.7
B35 M41 •999 X99	32.0	14.3	15.1	6.1	8.5	12.7	11.2	10.0

these connectors are sealed to the panel by gaskets

bulkhead sockets



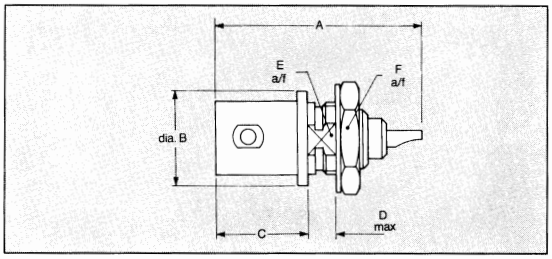


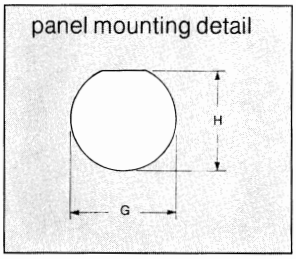


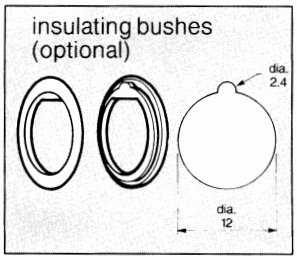
Series Impedance Style Number Finish	A	B	C	D	(D)	E	F	G	H	Note
B35 M13 •999 †99	32.0	12.5	12.0	9.4	8.6	8.7	12.7	9.7	8.9	1
B37 M13 •999 †99	32.0	12.5	12.0	9.4	8.6	8.7	12.7	9.7	8.9	1
B35 M26 •999 †99	27.0	12.5	12.0	5.4	4.6	8.7	12.7	9.7	8.9	1&2
B37 M26 •999 †99	27.0	12.5	12.0	5.4	4.6	8.7	12.7	9.7	8.9	1&2
B35 M27 •999 †99	27.0	12.5	12.0	3.2	2.5	8.7	12.7	9.7	8.9	
B37 M27 •999 †99	27.0	12.5	12.0	3.2	2.5	8.7	12.7	9.7	8.9	
B35 M29 •999 X99	27.0	12.5	12.0	3.2		10.2	12.7	11.2	10.4	3
B37 M29 •999 X99	27.0	12.5	12.0	3.2		10.2	12.7	11.2	10.4	3
B35 M63 •999 †99	27.0	12.5	12.0	3.2	4.2	8.5	12.7	9.7	8.7	
B37 M63 •999 †99	27.0	12.5	12.0	3.2	4.2	8.5	12.7	9.7	8.7	
B35 M84 •999 †99	27.0	15.8	12.0	3.4	2.7	11.9	14.3	12.9	12.0	2
B37 M84 •999 †99	27.0	15.8	12.0	3.4	2.7	11.9	14.3	12.9	12.0	2

y=16.3

bulkhead sockets







Series Impedance Style Number Finish	A	B	C	D	(D)	E	F	G	H	Note
B35 M43 •999 †99	32.0	12.5	12.0	9.4	8.6	8.7	12.7	9.7	8.9	1
B37 M43 •999 †99	32.0	12.5	12.0	9.4	8.6	8.7	12.7	9.7	8.9	
B35 M66 •999 †99	27.0	12.5	12.0	3.2	2.5	8.7	12.7	9.7	8.9	
B37 M66 •999 †99	27.0	12.5	12.0	3.2	2.5	8.7	12.7	9.7	8.9	

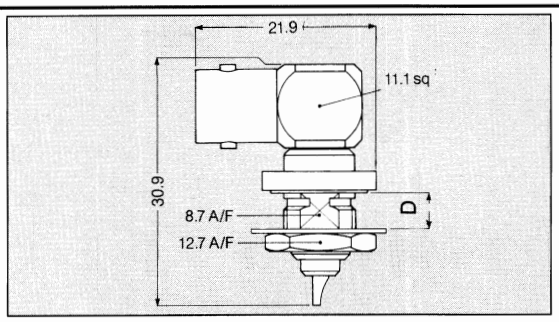
Notes:

- • for the required plating finish, enter code here
- † insulating bushes and solder tags are available for this item, but the bushes limit the available thread and require a different cut-out (see mounting detail for bush), dimension D is thus reduced - see (D).
  NB the basic item uses 999 X99 as a filler code here - but to indicate the addition of a solder tag or insulating bush, use the following numbers. Note 1 indicates a product which can take a thicker bush (see page 30)
  - 001 S99=with solder tag only
  - 002 S99=with solder tag and insulating bushes (as shown above)
  - 003 S99=with insulating bushes only (as shown above)
- 1 - 004 S99=with solder tag and alternative insulating bushes (see page 30)
- 1 - 005 S99=with alternative insulating bushes only (see page 30)
- 2 these items have two flats @ 90°, on the body, to allow orientation of the connector in the panel.
- 3 Solder tags (only) are available as an accessory to this item - enter '001 S99' in the part number.

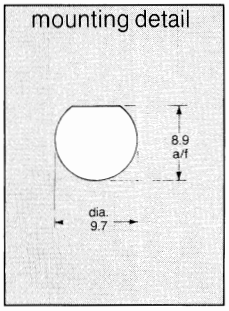
for an explanation of the part number, see page 5.

bulkhead sockets

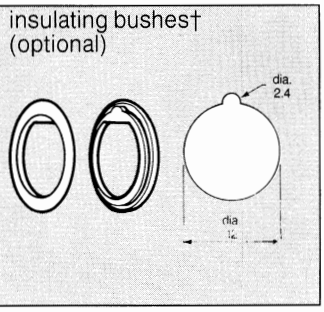
elbow



mounting detail



insulating bushes† (optional)

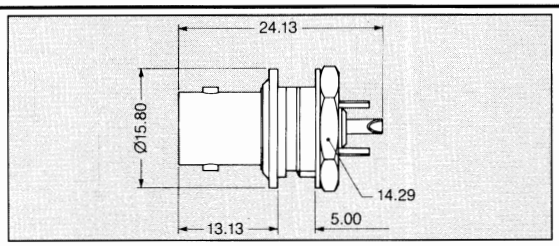


Series	Impedance	Style	Number	Finish	D	(D)	
B35	M09	•	999	†99	5.3	3.1	see the notes on page 17 for
B37	M09	•	999	†99	5.3	3.1	availability of ins' bushes and sol' tags.

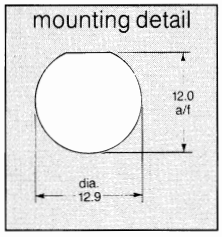
† insulating bushes and solder tags are available as an option for this item, but bushes limit the available thread and require the alternative cut out. Dimension D is thus effectively reduced (see Dimension (D) and the note regarding bushes on previous page).

bulkhead sockets

(insulated)



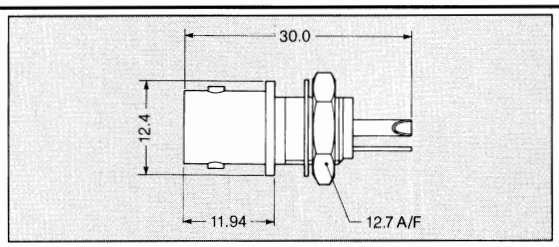
mounting detail



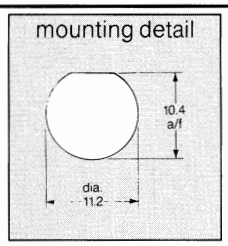
Series	Impedance	Style	Number	Finish		
B35	M49	•	999	X99		separate bushes are not required: connector
B37	M49	•	999	X99		features integral insulation of the metal mounting thread and nut.

bulkhead socket

(insulated)



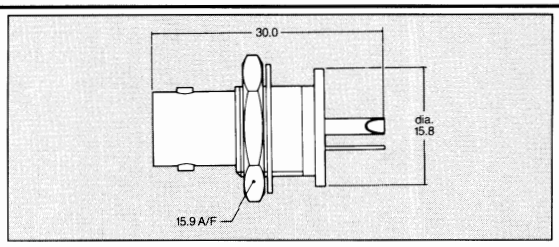
mounting detail



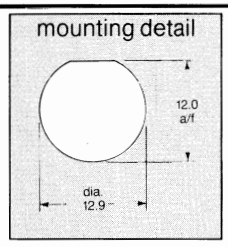
Series	Impedance	Style	Number	Finish		
B35	M46	•	999	099	black insulator	separate bushes are not required: connector
				199	brown insulator	features plastics body construction for
				299	red insulator	panel insulation
				399	orange insulator	
				499	yellow insulator	
				599	green insulator	
				699	blue insulator	
				799	violet insulator	
				899	grey insulator	
				999	white insulator	

bulkhead socket

(insulated)



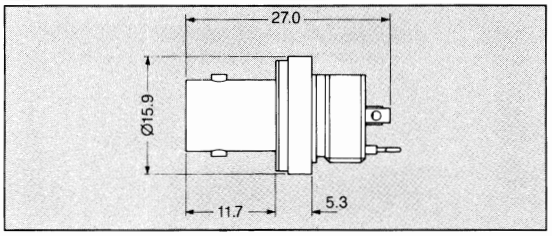
mounting detail

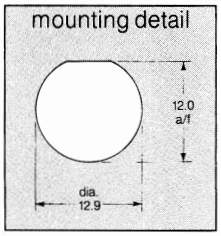


Series	Impedance	Style	Number	Finish		
B35	M47	•	999	099	black insulator	separate bushes are not required: connector
				199	brown insulator	features plastics body construction for
				299	red insulator	panel insulation
				399	orange insulator	
				499	yellow insulator	
				599	green insulator	
				699	blue insulator	
				799	violet insulator	
				899	grey insulator	
				999	white insulator	

for an explanation of the part number, see page 5.

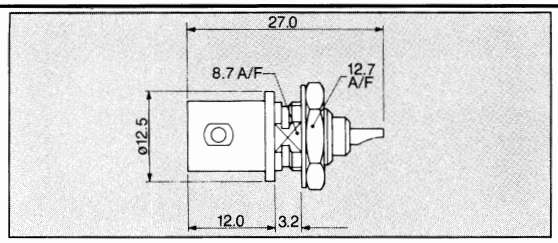
bulkhead socket
(with contact ring)

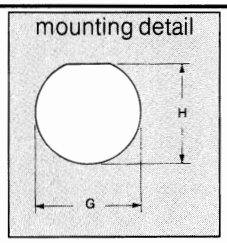




Series	Impedance	Style	Number	Finish	Fixing	
B35		M18		•999	X99	this item incorporates an insulated contact ring for signalling purposes. It is commonly used as the signal input connector on oscilloscopes.

bulkhead socket

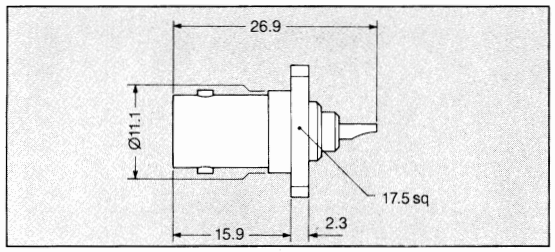


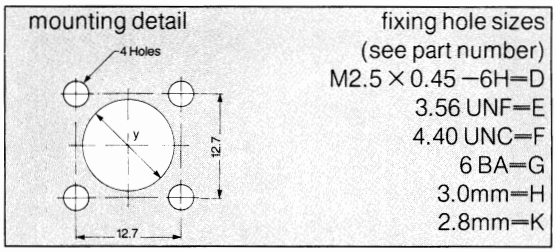


Series	Impedance	Style	Number	Finish	Fixing	
B35		M48		•999	099	black insulator
					199	brown insulator
					299	red insulator
					399	orange insulator
					499	yellow insulator
					599	green insulator
					699	blue insulator
					799	violet insulator
					899	grey insulator
					999	white insulator

connector features a die cast metal body panel insulation

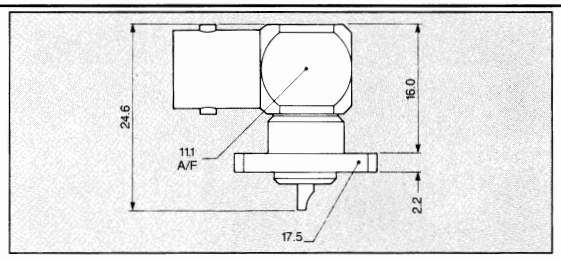
panel sockets

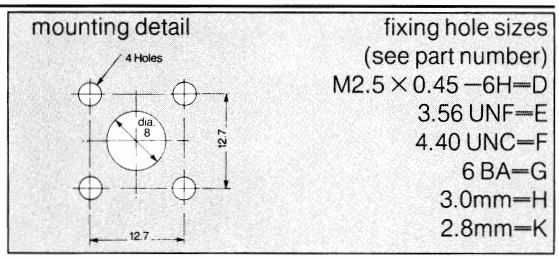




Series	Impedance	Style	Number	Finish	Fixing	
B35		K07		•999	†99	y=11.2 for rear mounting
B37		K07		•999	†99	y=8.0 for front mounting

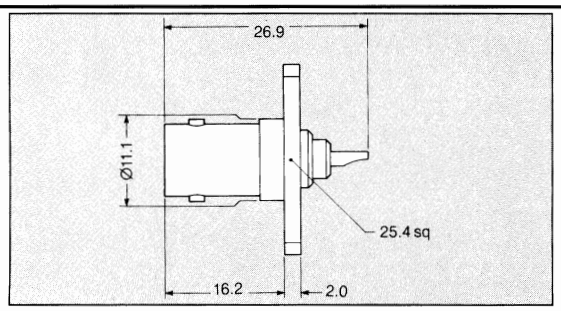
panel sockets

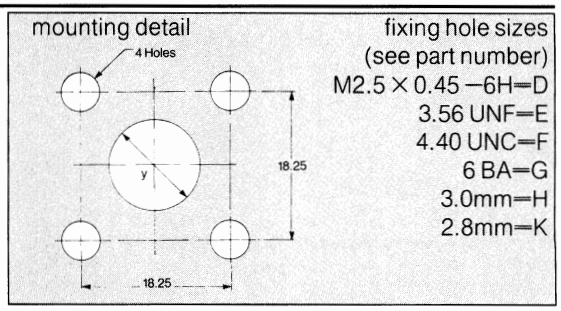




Series	Impedance	Style	Number	Finish	Fixing
B35		K14		•999	†99
B37		K14		•999	†99

panel sockets





Series	Impedance	Style	Number	Finish	Fixing	
B35		K83		•999	†99	y=11.2 for rear mounting
B37		K83		•999	†99	y=8.0 for front mounting

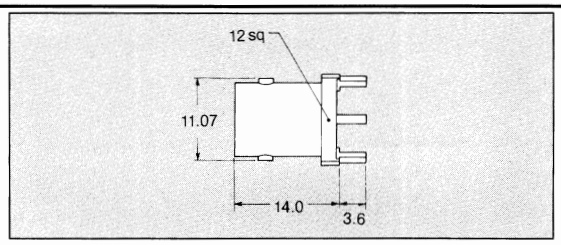
†select the panel fixing hole size from the list and add the code letter to the part number.

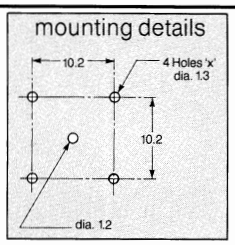
for an explanation of the part number, see page 5.

PCB socket
(metal body †)

Series Impedance Style Number Finish

B35 N14 •999 X99

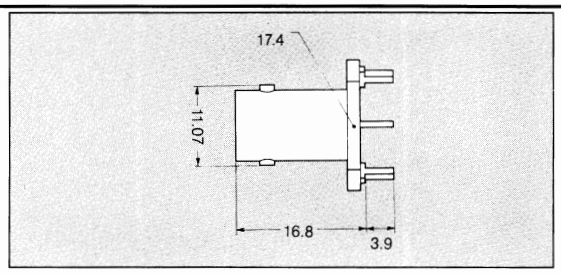


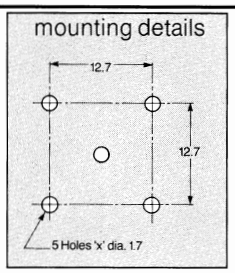


PCB socket
(metal body †)

Series Impedance Style Number Finish

B35 N57 •999 X99

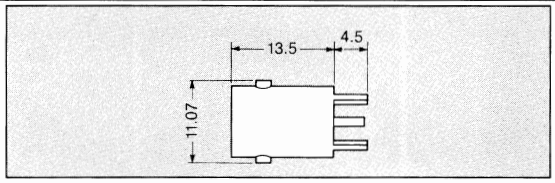


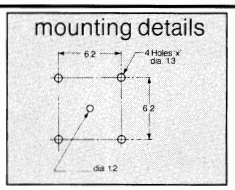


PCB socket
(metal body)

Series Impedance Style Number Finish

B35 N61 •999 X99

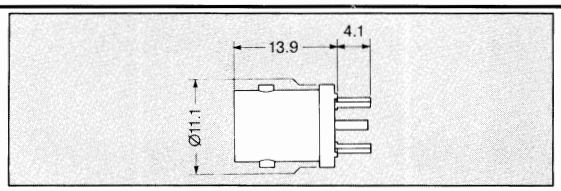


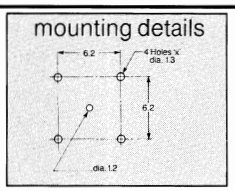


PCB socket
(metal body †)

Series Impedance Style Number Finish

B35 N62 •999 X99

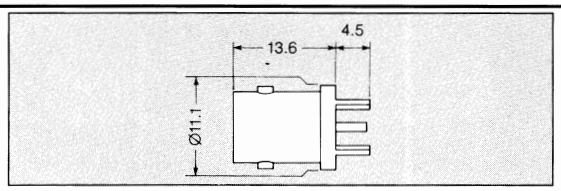


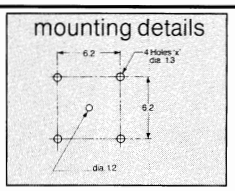


PCB socket
(metal body)

Series Impedance Style Number Finish

B35 N63 •999 X99

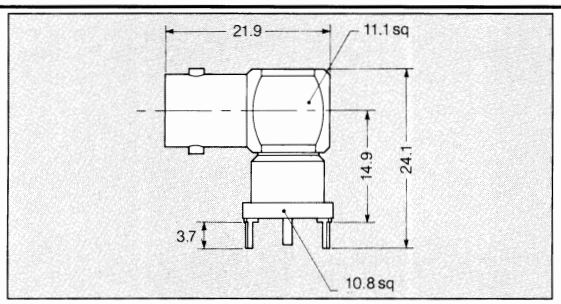


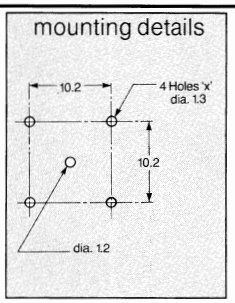


PCB socket
(metal body †)

Series Impedance Style Number Finish

B35 N64 •999 X99

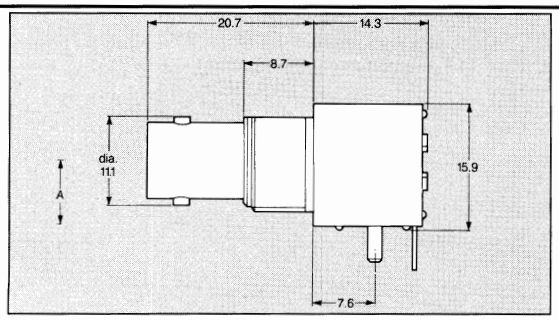


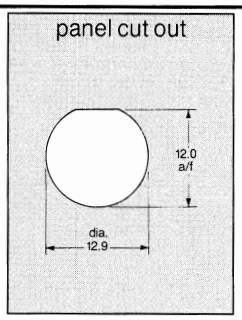


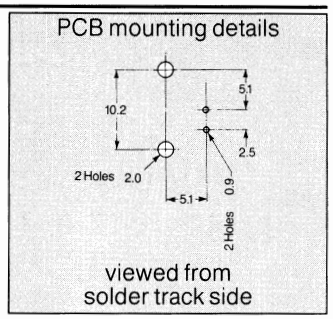
† 'stepped' legs prevent build up of flux

for an explanation of the part number, see page 5.

PCB socket
(moulded body †)

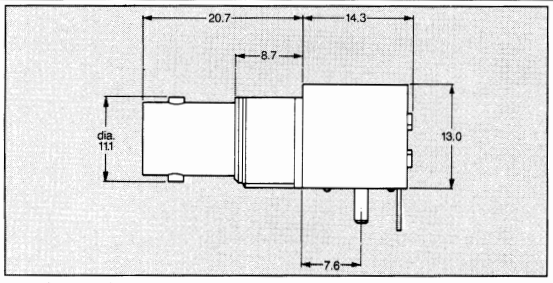


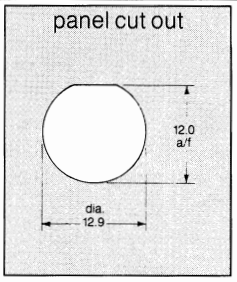


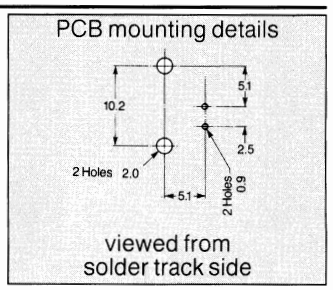


Series	Impedance	Style	Number	Finish	A		
B35	N82	•	999	X99	8.56	black moulded body	with mounting pins
	N84				8.56	white moulded body	with mounting pins
	N86				8.56	white moulded body	without pins, self tap screws fixing to body
	N92						without pins, self tap screw fixing to body
B35	N98	•	999	X99	8.26	die cast metal body	without pins, self tap screw fixing to body

PCB socket
(low profile
moulded body †)

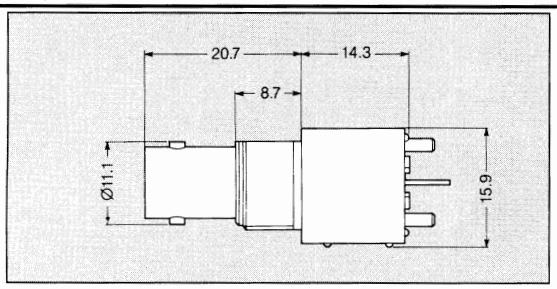


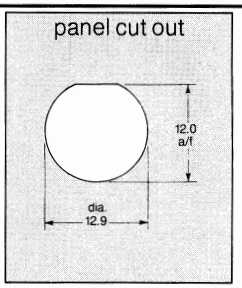


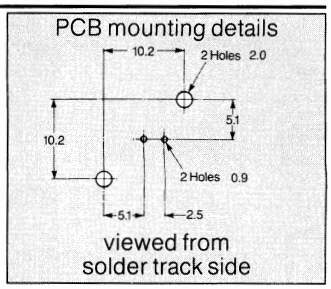


Series	Impedance	Style	Number	Finish		
B35	N88	•	999	X99	black moulded body	with mounting pins
	N89				white moulded body	without pins, self tap screw fixing into body
	N90				black moulded body	with mounting pins
	N91				white moulded body	without pins, self tap screw fixing to body

PCB socket
(moulded body †)

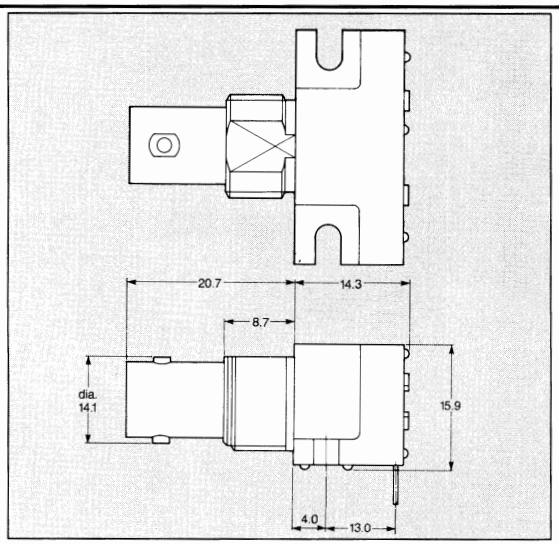


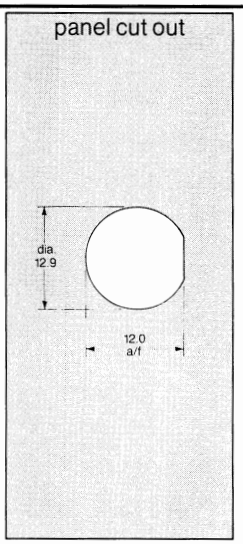


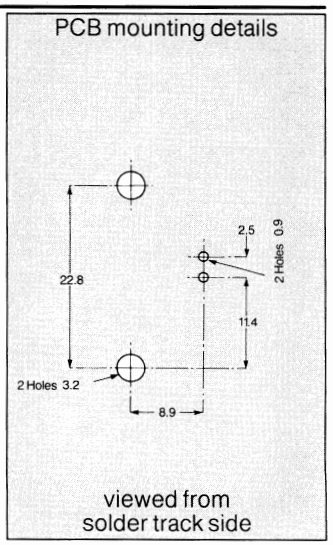


Series	Impedance	Style	Number	Finish		
B35	N83	•	999	X99	black moulded body	with mounting pins
	N85				white moulded body	with mounting pins
	N87				white moulded body	without pins, self tap screw fixing into body
	N93				black moulded body	without pins, self tap screw fixing into body
B35	N99	•	999	X99	die cast metal body	without pins, self tap screw fixing into body

PCB socket
(moulded body †)



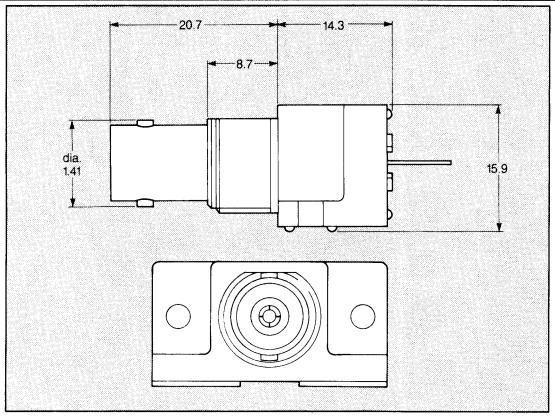


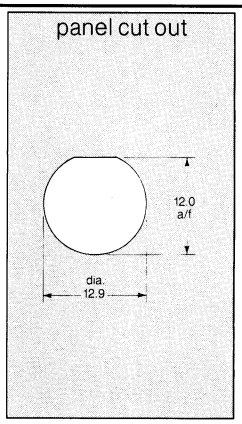


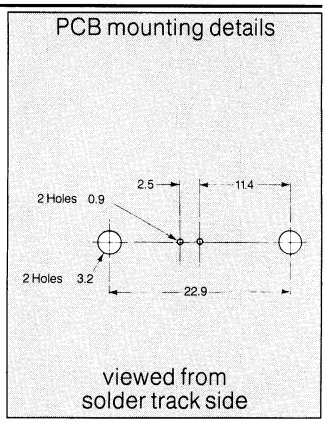
Series	Impedance	Style	Number	Finish	
B35	N94	•	999	X99	fixed to printed board using screws

†moulded body with panel mounting thread and moulded 'pips' to allow removal of flux.

PCB socket
(moulded body †)



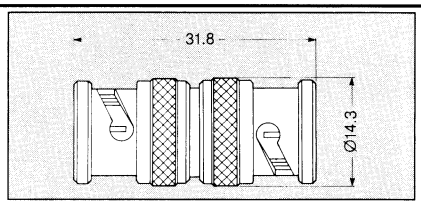




B35 N95 •999 X99

fixed to printed board using screws

straight adaptor plug to plug

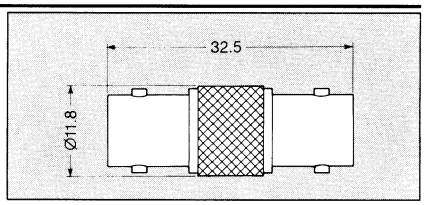


Series
Impedance
Style
Number
Finish

B35 P32 •999 X99 (50 ohm)

~~B37 P32 •999 X99~~ (75 ohm)

straight adaptor jack to jack

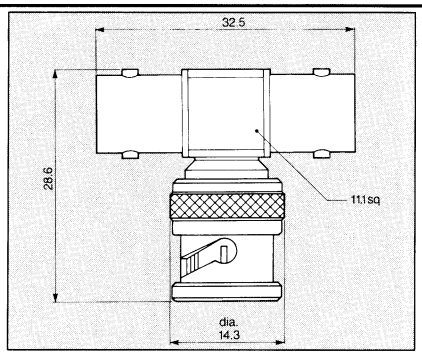


Series
Impedance
Style
Number
Finish

B35 P34 •999 X99 (50 ohm)

~~B37 P34 •999 X99~~ (75 ohm)

tee adaptor

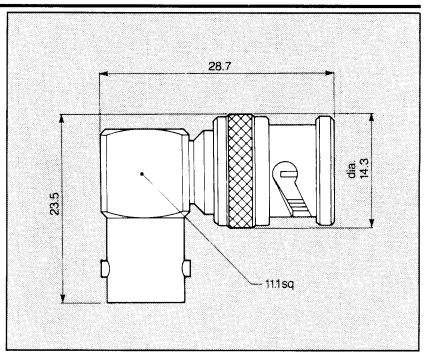


Series
Impedance
Style
Number
Finish

B35 P31 •999 X99 (50 ohm)

~~B37 P31 •999 X99~~ (75 ohm)

elbow adaptor

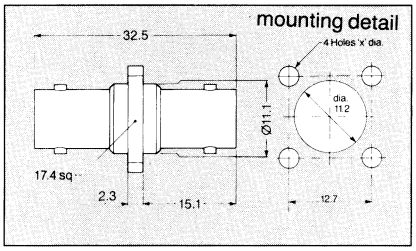


Series
Impedance
Style
Number
Finish

B35 R28 •999 X99 (50 ohm)

~~B37 R28 •999 X99~~ (75 ohm)

panel adaptor jack to jack

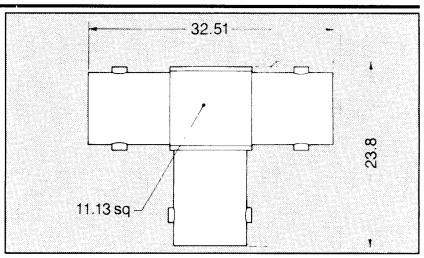


Series
Impedance
Style
Number
Finish

B35 R81 •999 †99 (50 ohm)

~~B37 R81 •999 †99~~ (75 ohm)

tee adaptor

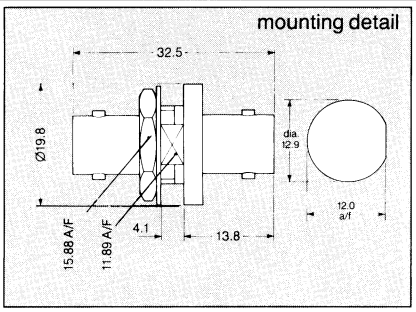


Series
Impedance
Style
Number
Finish

B35 P96 •999 X99 (50 ohm)

~~B37 P96 •999 X99~~ (75 ohm)

bulkhead adaptor jack to jack

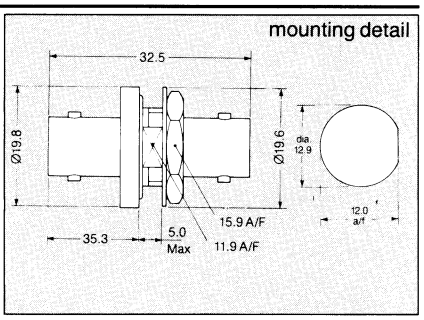


Series
Impedance
Style
Number
Finish

B35 R88 •999 X99 (50 ohm)

~~B37 R88 •999 X99~~ (75 ohm)

bulkhead adaptor jack to jack



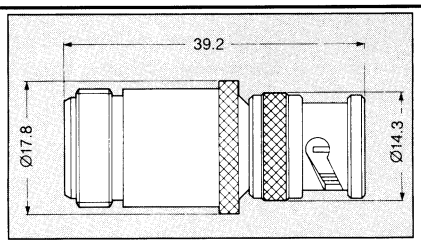
Series
Impedance
Style
Number
Finish

B35 R87 •999 X99 (50 ohm)

~~B37 R87 •999 X99~~ (75 ohm)

† for an explanation of the part number, see page 5.

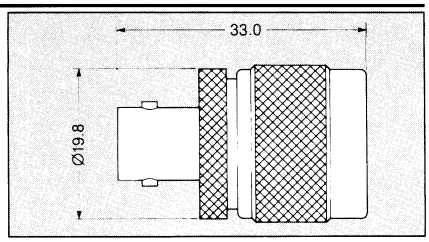
straight adaptor
BNC (m) to N (f)



Series
Impedance
Style
Number
Finish

A55 P04 •999 X99

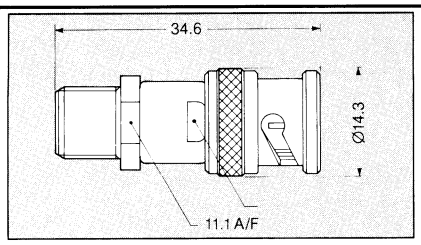
straight adaptor
BNC (f) to N (m)



Series
Impedance
Style
Number
Finish

A55 P28 •999 X99

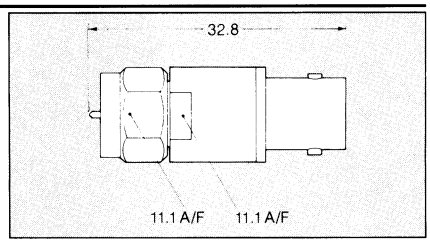
straight adaptor
BNC (m) to F (f)



Series
Impedance
Style
Number
Finish

A55 P34 •999 X99

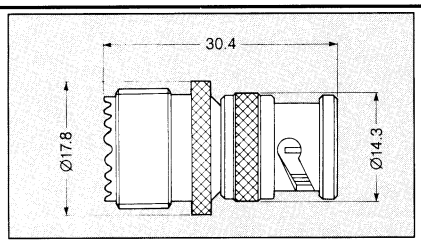
straight adaptor
BNC (f) to F (m)



Series
Impedance
Style
Number
Finish

A55 P33 •999 X99

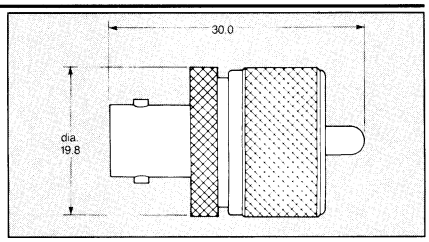
straight adaptor
BNC (m) to UHF (f)



Series
Impedance
Style
Number
Finish

A55 P08 •999 X99

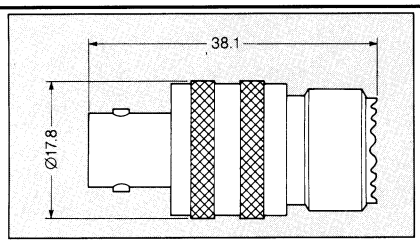
straight adaptor
BNC (f) to UHF (m)



Series
Impedance
Style
Number
Finish

A55 P07 •999 X99

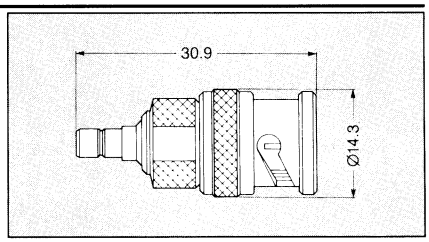
straight adaptor
BNC (f) to UHF (f)



Series
Impedance
Style
Number
Finish

A55 P31 •999 X99

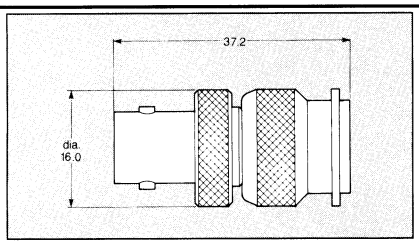
straight adaptor
BNC (m) to SMB (m)



Series
Impedance
Style
Number
Finish

A55 P36 •999 X99

straight adaptor
BNC (f) to TNC (m)

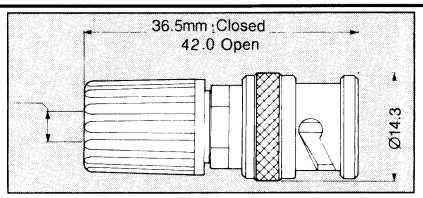


Series
Impedance
Style
Number
Finish

A55 P38 •999 X99

binding post adaptor

BNC (m) to 1 x post

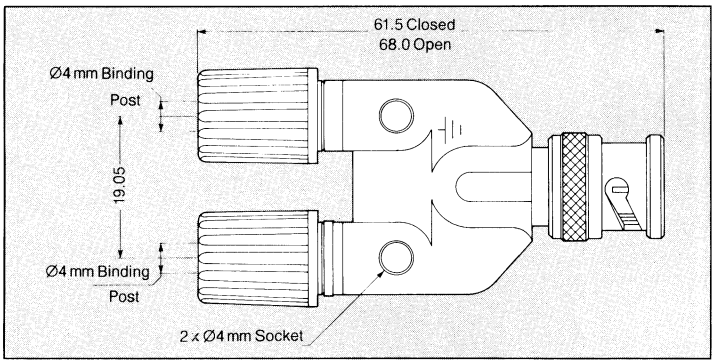


Series Impedance Style Number Finish

B35 Z11 •999 X99

binding post adaptor

BNC (m) to 2 x posts

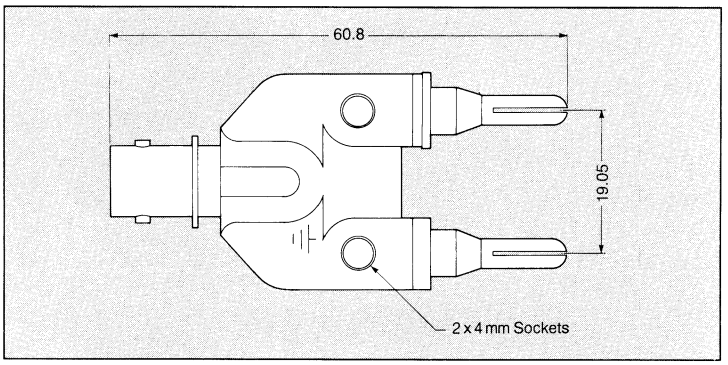


Series Impedance Style Number Finish

B35 X60 •999 X99

binding post adaptor

BNC (f) to 2 x 4mm plugs

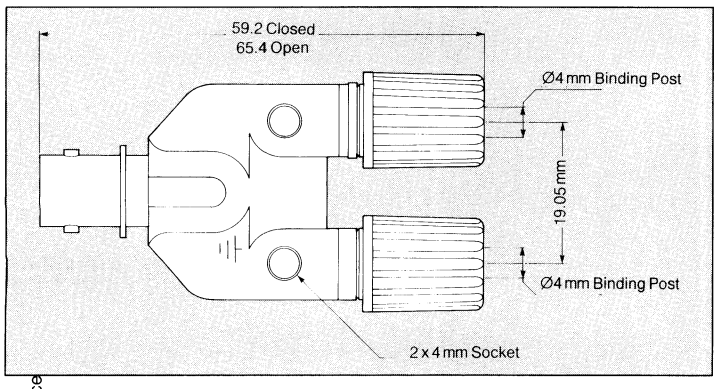


Series Impedance Style Number Finish

B35 X66 •999 X99

binding post adaptor

BNC (f) to 2 x posts

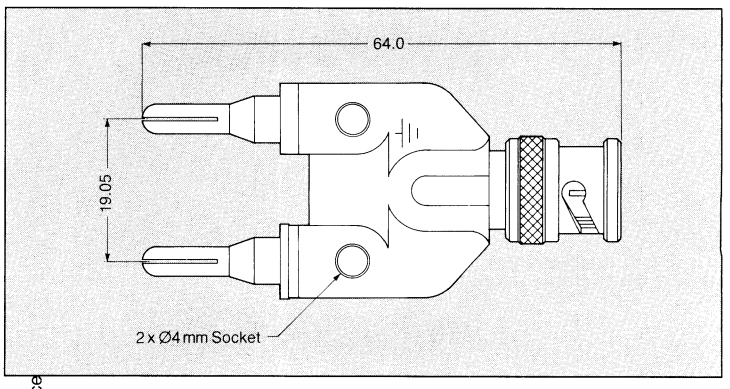


Series Impedance Style Number Finish

B35 X67 •999 X99

binding post adaptor

BNC (m) to 2 x 4mm plugs

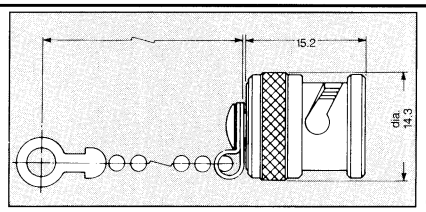


Series Impedance Style Number Finish

B35 X68 •999 X99

cap

(with chain)

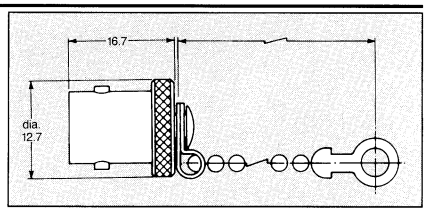


Series Impedance Style Number Finish

B30 Z01 •999 X99

cap

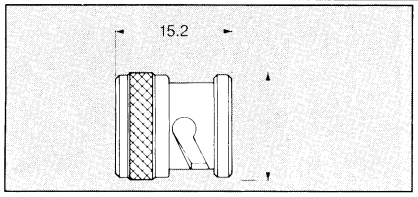
(with chain)



Series Impedance Style Number Finish

B30 Z03 •999 X99

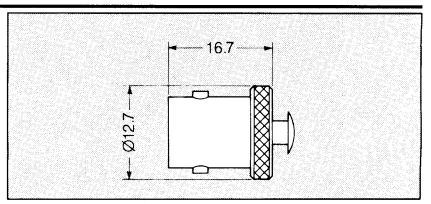
cap



Series Impedance Style Number Finish

B30 Z02 •999 X99

cap

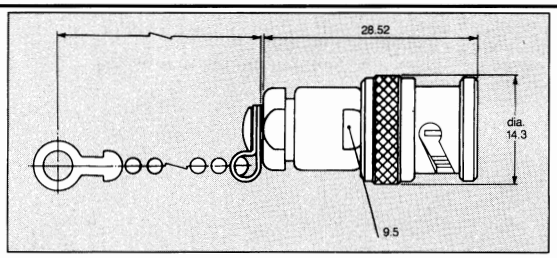


Series Impedance Style Number Finish

B30 Z04 •999 X99

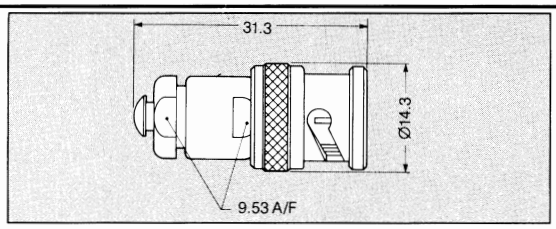
for an explanation of the part number, see page 5.

resistor plugs
(with chain)



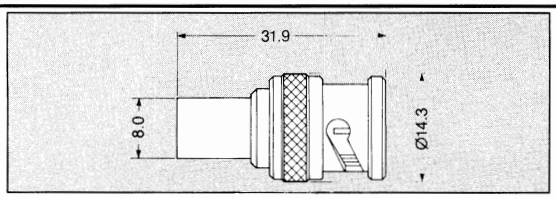
Series	Impedance	Style	Number	Finish	
B35	Z10	•501	X99		50 ohms
B37	Z10	•751	X99		75 ohms

resistor plugs



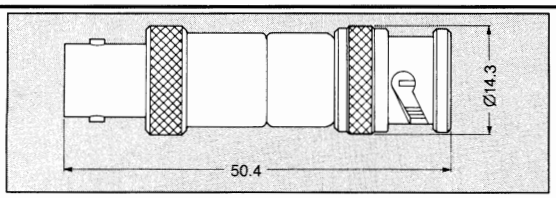
Series	Impedance	Style	Number	Finish	
B35	Z33	•501	X99		50 ohms
B37	Z33	•751	X99		75 ohms

resistor plugs



Series	Impedance	Style	Number	Finish	
B35	Z98	•501	X99		50 ohms
B35	Z98	•751	X99		75 ohms
B35	Z98	•911	X99		91 ohms
B35	Z98	•916	X99		9.1 Mohms

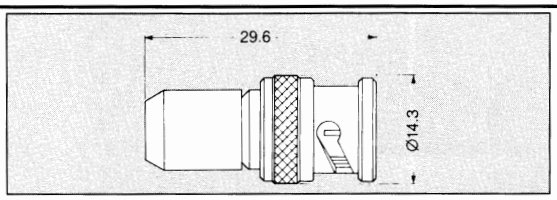
attenuators



Series	Impedance	Style	Number	Finish		rating	
B35	X21	•003	X99		(50 ohm)	3dB	Note: the variable part of these numbers
		006				6dB	relates to the attenuation rating.
		010				10dB	
		020				20dB	
B37	X21	•003	X99		(75 ohm)	3dB	
		006				6dB	
		010				10dB	
		020				20dB	

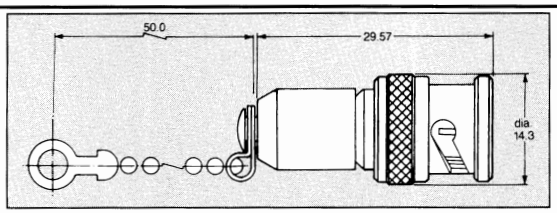
for an explanation of the part number, see page 5.

terminations



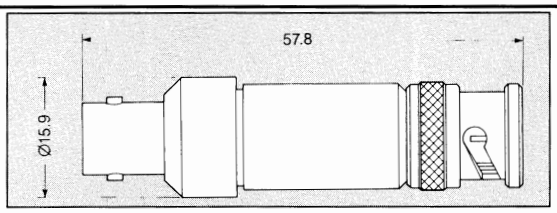
Series Impedance Style Number Finish		specification
B35 X20 •999 X99	(nominal impedance 50 ohm)	1.0W VSWR 1.1 (DC-1GHz) / 1.2 (1GHz-2GHz)
B37 X30 •999 X99	(nominal impedance 75 ohms)	0.5W VSWR 1.1 (DC-1GHz)

termination
(with chain)



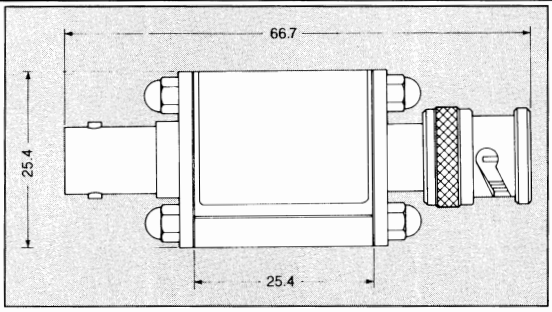
Series Impedance Style Number Finish		specification
B35 X26 •999 X99	(nominal impedance 50 ohm)	1.0W VSWR 1.1 (DC-1GHz)/1.2 (1GHz-2GHz)
B37 X36 •999 X99	(nominal impedance 75 ohm)	0.5W VSWR 1.1 (DC-1GHz)

through terminations



Series Impedance Style Number Finish	specification
B35 X13 •999 X99	50 ohms, 2W
B37 X33 •999 X99	75 ohms, 1W

circuit boxes

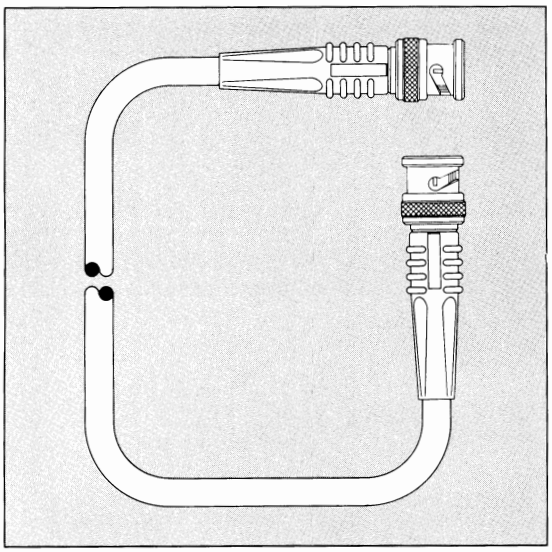


Greenpar circuit boxes provide a versatile means of mounting small component networks. They are constructed using aluminium extrusion with tongue and groove joints for optimum r.f. screening. Access is obtained by removing only one screw and earth tags are provided at each end of the box.

Series Impedance Style Number Finish	A	B
B35 X75 •999 X99	66.0	25.0
B35 X78 •999 X99	117.0	76.0
B35 X74 •999 X99	76.0	76.0
B35 X73 •999 X99	91.0	50.0

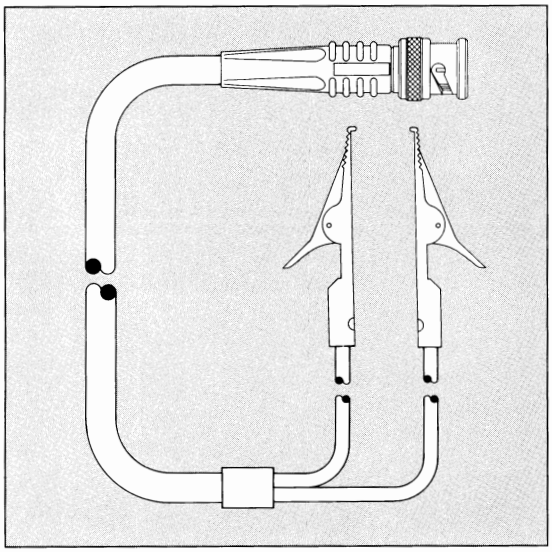
for an explanation of the part number, see page 5.

plug to plug
(BNC to BNC)



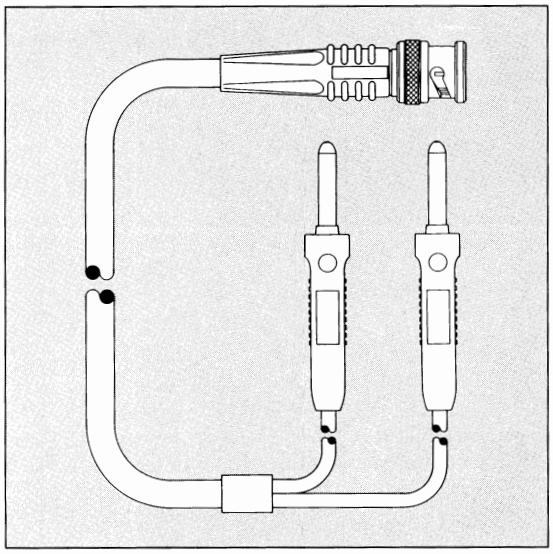
nickel body	nominal o/a length
XB3A 050 B3A 01H5	0.5m
XB3A 100 B3A 01H5	1.0m
XB3A 150 B3A 01H5	1.5m
XB3A 200 B3A 01H5	2.0m
silver body	
XB3A 050 B3A 01E5	0.5m
XB3A 100 B3A 01E5	1.0m
XB3A 150 B3A 01E5	1.5m
XB3A 200 B3A 01E5	2.0m

plug to clips



nickel body	nominal o/a length
XB3A 100 C9C 01H5	1.0m
silver body	
XB3A 100 C9C 01E5	1.0m

plug to plugs
(BNC to 4mm)

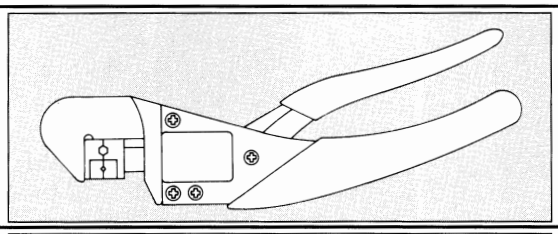


nickel body	nominal o/a length
XB3A 100 B4P 01H5	1.0m
silver body	
XB3A 100 B4P 01E5	1.0m

note: part numbers on this page do not conform to the connector part numbering rules

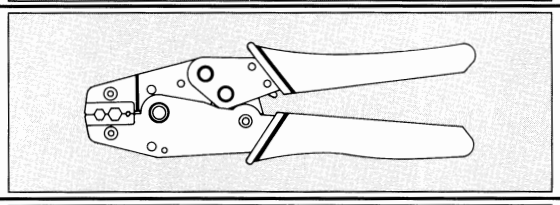
Greenpar offers four hand tools according to the connector ranges to be assembled.
G30040 & G30050 are supplied with a fixed three die design insert permitting crimping of both 50 & 75 ohm connectors suiting the cables listed in the cable groups shown in the chart. Each tool is robustly constructed with precision dies of high tensile steel; each of which will crimp both centre contact and outer ferrule. A ratchet mechanism ensures that the dies cannot be parted until the complete crimping operation has been performed in every case. But to allow for operator error, for instance, a mismatch of cable and die, there is a release catch which allows interruption of the process.
These are low cost, lightweight tools which can be used for assembly of specific connectors, according to the chosen tool.
G30039 and G30051 are heavier duty tools suited to all connector series and their corresponding cables, or for higher production volumes. Because the dies are interchangeable, the tools are equally suited to laboratory use requiring a wide variety of connector ranges. Remember to specify the additional die set.

G30039



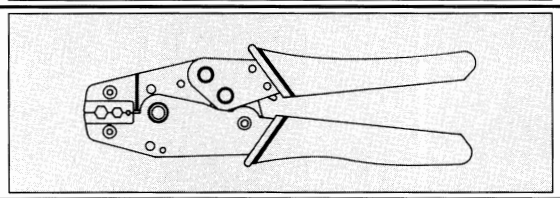
- heavy duty tool for use with most connector series, by means of interchangeable dies
- full closure mechanism ensures complete crimping operation
- rigid C frame to ensure consistent high quality connections
- dies available for all series and cable types

G30040



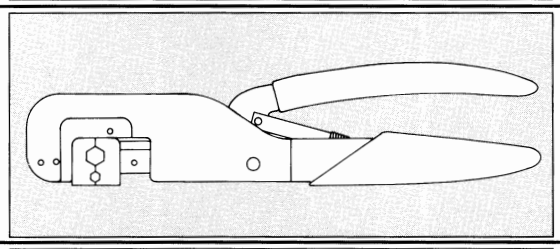
- low cost tool for BNC, TNC & UHF series
- for RG-58, RG-59 and similar cables

G30050



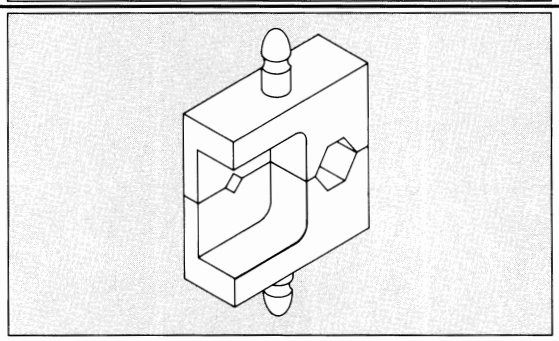
- fixed die tool for sub-miniature connectors

G30051



- heavy duty tool with interchangeable dies
- can be used for all connector series using the appropriate die
- especially suited to N type and Ethernet connectors

die sets

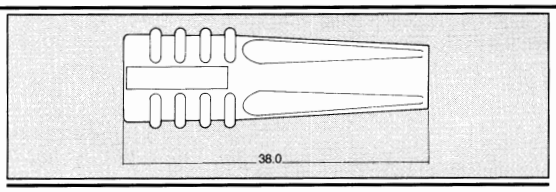


- other dies are available for most connector ranges
- refer to assembly instructions for appropriate tool/ die set combinations

die sets	tool	typical applications
G 30030-**	30039	series BNC, BT crimp styles
G 30032-**	30039	series BNC, MIL crimp styles
G 30052	30051	N series connectors, crimped styles
G 30053	30051	as above
G 30054	30051	as above

note: the tools overlaid with tone are not related to this catalogue of connector products.
note: **refer to the assembly instructions for the appropriate tool/die combinations.

standard sleeves



strain relief sleeves are available in a variety of colours and are normally marked 'Greenpar'. Unmarked or specially marked sleeves are available for viable quantities.

ST102110	green	for cables, BT2003A, RG 71 & oversize RG62 (max O/D 7mm)
11	blue	
12	brown	
13	yellow	
14	red	
15	grey	
16	violet	
17	orange	
18	white	
19	black	
ST106403	green	for RG174 cable (max O/D 3mm)
04	blue	
05	brown	
06	yellow	
07	red	
08	grey	
09	violet	
10	orange	
11	white	
12	black	
ST108720	green	for cables, RG58 & RG223 (max O/D 5.5mm)
21	blue	
22	brown	
23	yellow	
24	red	
25	grey	
26	violet	
27	orange	
28	white	
29	black	
ST108730	green	for cables, RG59, RG62B/U & URM70 (max O/D 6.3mm)
31	blue	
32	brown	
33	yellow	
34	red	
35	grey	
36	violet	
37	orange	
38	white	
39	black	

applications

- to protect cable at its entry to the connector
- to colour code
- to provide a degree of dirt and moisture resistance

cable assemblies

- cable assemblies incorporating the use of strain relief sleeves can be supplied (see page 27)

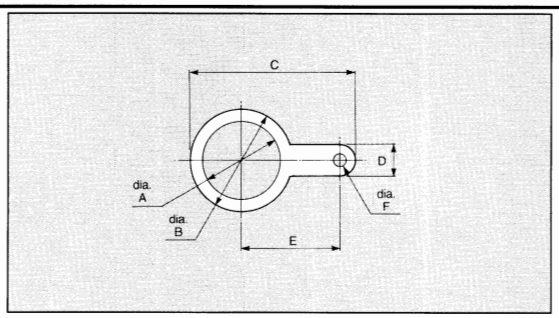
Solder tags and insulating bushes are available for many panel mounted items which need to be isolated from the panel itself. It is important to note that the available mounting thread of the connector is effectively reduced when a bush is used, or conversely, that the panel must be thinner to allow for the thickness of the bush.
The part number allows for the specification of these accessories with bulkhead sockets in particular by using the digits which would otherwise be used for the cable group number of a cable entry style of connector.

Part Number variants:
---M-- 001 S99: with solder tag only
---M-- 002 S99: with solder tag and insulating bushes for 'pip'

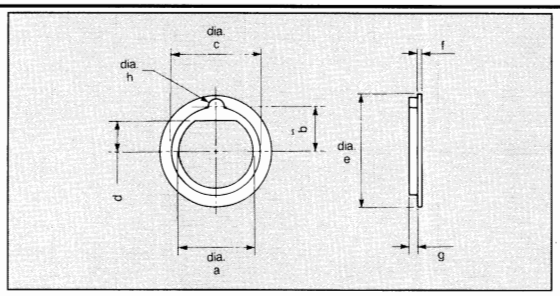
panel cut out
---M-- 003 S99: with insulating bushes only
---M-- 004 S99: with tag and bushes
---M-- 005 S99: with bushes only

(see below for specific style of bushes and tags. M=bulkhead socket).

solder tags

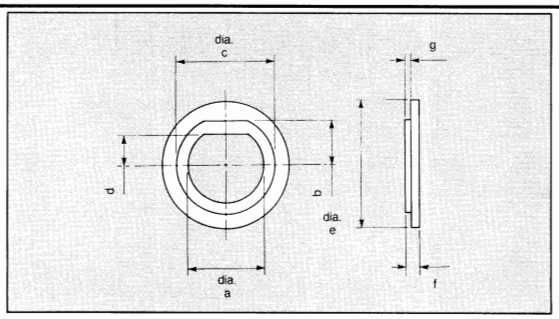


	A	B	C	D	E	F
ST101502	12.95	19.05	22.23	3.18	11.10	1.02
ST101503	9.91	12.95	21.16	3.96	12.50	1.60



	A	B	C	D	E.dia	F	G
ST100539	9.53	11.89	3.99	5.72	2.79	1.40	0.38
ST103842	12.75	16.26	5.59	7.92	2.28	1.40	0.38

insulating bushes



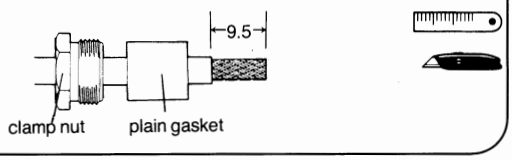
	A	B	C	D	E	F	G
ST100903	12.78	7.39	16.79	5.61	20.00	1.73	0.64
ST108363	9.70	5.56	12.50	3.94	16.00	2.11	0.61

all dimensions are in mm

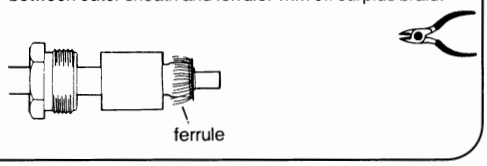
plugs and jacks
captive contact, pressure sleeve clamp

assembly instructions

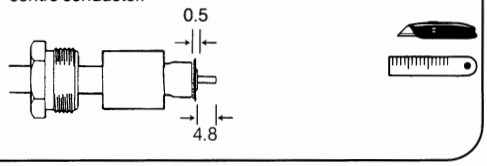
1 Slide clamp nut and plain gasket over cable and trim outer sheath from cable, as shown.



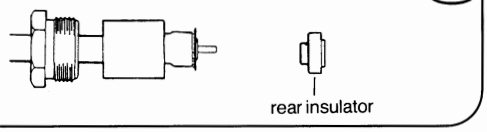
2 Fold back braid and push ferrule over dielectric to trap braid between outer sheath and ferrule. Trim off surplus braid.



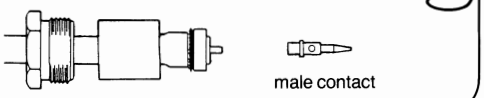
3 Trim back dielectric and check the length of the protruding centre conductor.



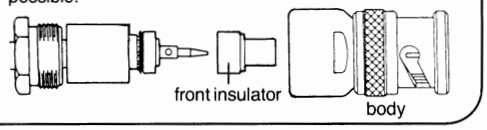
4 Tin centre conductor, then slide rear insulator over dielectric, to butt against ferrule.



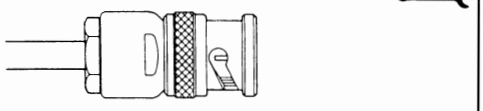
5 Fit contact (male for plugs, female for jacks) onto centre conductor, with collar pressed into recess in rear insulator. Hold cable and contact tightly together, and solder.



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



7 Engage and tighten clamp nut.



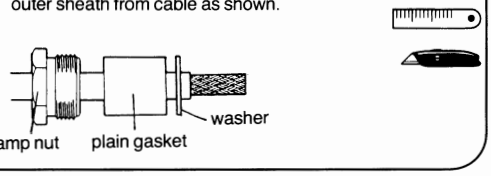
Note: a plug body is shown, but these instructions are relevant to both plugs and jacks. The shape of the contacts and insulators may vary from the drawings shown.

(A)

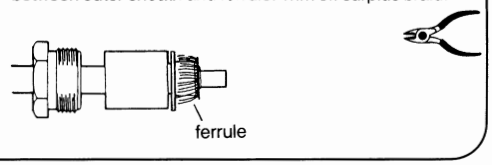
plugs and jacks
captive contact, pressure sleeve clamp for cable groups 022 & 024

assembly instructions

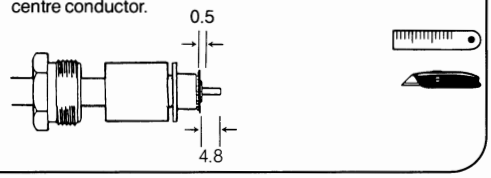
1 Slide clamp nut, plain gasket and washer over cable; trim outer sheath from cable as shown.



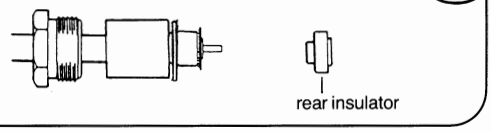
2 Fold back braid and push ferrule over dielectric to trap braid between outer sheath and ferrule. Trim off surplus braid.



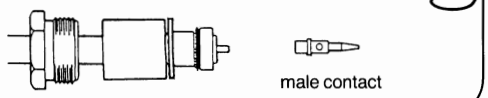
3 Trim back dielectric and check length of the protruding centre conductor.



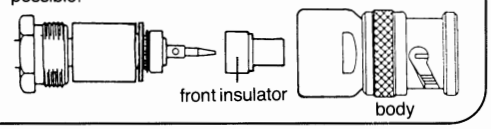
4 Tin centre conductor; then slide rear insulator over dielectric to butt against ferrule.



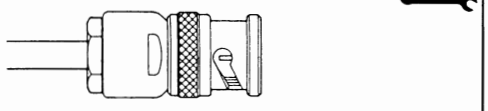
5 Fit contact (male for plugs, female for jacks) onto centre conductor, with collar pressed into recess in rear insulator. Hold cable and contact tightly together, and solder.



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



7 Engage and tighten clamp nut.



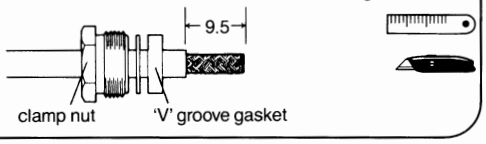
Note: a plug body is shown, but these instructions are relevant to both plugs and jacks. The characteristics of the contacts and insulators may vary from the drawings shown.

(B)

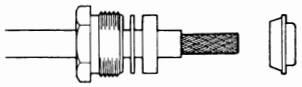
plugs and jacks
non-captive contact, V groove gasket braid clamp

assembly instructions

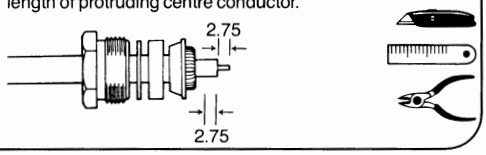
1 Slide clamp nut, washer and 'V' groove gasket over cable, (groove of gasket to face free end of cable) Trim outer sheath from cable as shown, without disturbing the braid.



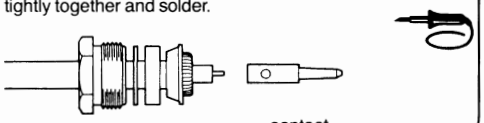
2 Slide braid clamp over braid so that Internal shoulder butts against face of outer sheath.



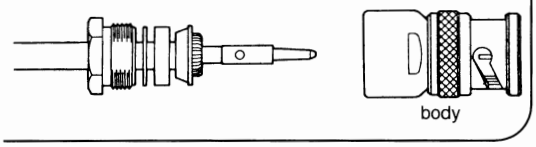
3 Fold braid back over braid clamp avoiding crossed wires and trim off surplus braid. Trim back dielectric and check length of protruding centre conductor.



4 Tin centre conductor and fit contact (male for plugs, female for jacks) onto centre conductor, hold cable and contact tightly together and solder.



5 Slide 'V' groove gasket, washer and clamp nut up to braid clamp and press sub-assembly into body as far as possible.



6 Engage and tighten clamp nut.

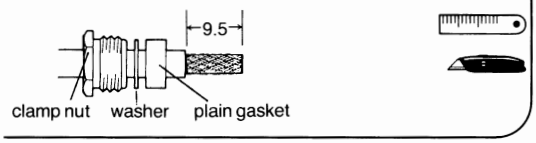
Note: a plug body is shown, but these instructions are relevant to both plugs and jacks. The shape of the contact and insulators will vary.

(A)

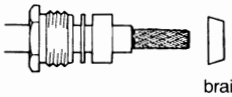
plugs and jacks
non-captive contact, UG style items

assembly instructions

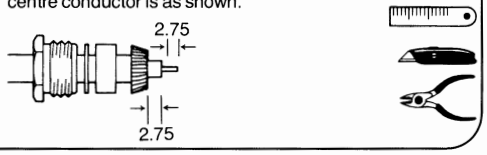
1 Slide clamp nut, washer and plain gasket over cable: trim outer sheath from cable as shown, without disturbing the braid.



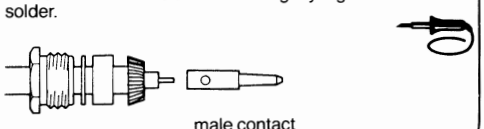
2 Fit braid clamp so that the internal shoulder butts to the end of the outer cable



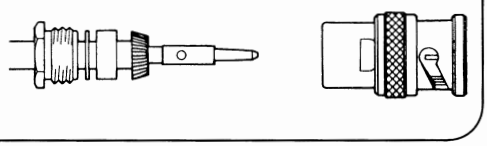
3 Fold back braid, avoiding crossed wires, and trim surplus braid. Trim dielectric and check that dimension of exposed centre conductor is as shown.



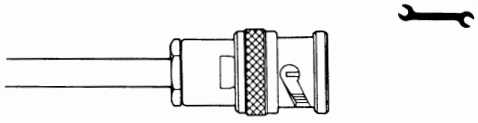
4 Tin centre conductor and fit contact to butt against face of dielectric. Hold cable and contact tightly together and solder.



5 Slide plain gasket, flat washer and clamp nut to braid clamp and press sub-assembly into body as far as possible.



6 Engage and tighten clamp nut.



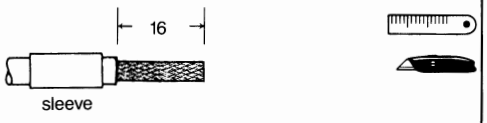
Note: a plug body is shown, but these instructions are relevant to both plugs and jacks. The shape of the contact and insulators will vary.

(B)

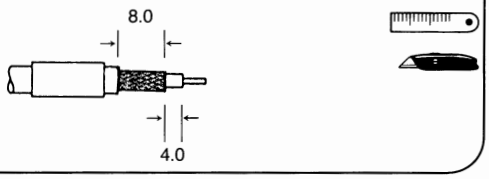
plugs, elbow plugs and jacks
captive contact, MIL crimp

assembly instructions

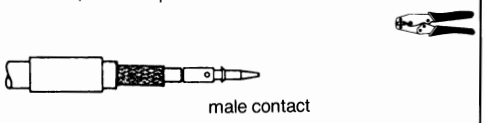
1 Slide metal crimp sleeve over cable, trim outer sheath from cable as shown.



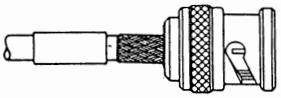
2 Trim back braid and dielectric to the dimensions shown.



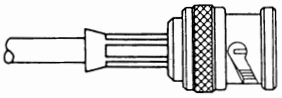
3 Fit contact over centre conductor to butt against the dielectric, then crimp.



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



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



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

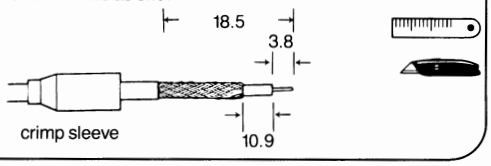
Cable groups	Tool	Die	(BS ref)
007 060	30040	(fixed die)	
A25 B25 C25 D25	30039	30032WG	(WG)
010	30040	(fixed die)	
	30039	30032WD	(WD)
007	30039	WG	

(A)

plugs, elbow plugs and jacks
captive contact, MIL crimp for cables in group 022

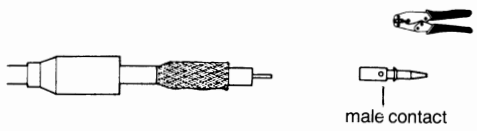
assembly instructions

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

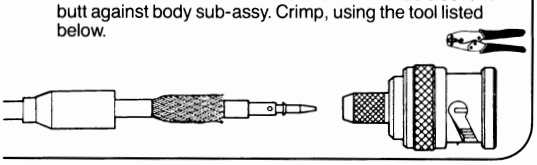


2 Slide small brass sleeve over dielectric and under braid. Place small plastic sleeve on the end of the dielectric.

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



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



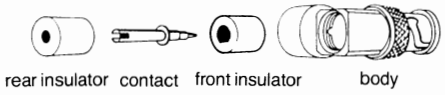
Note: a plug body is shown, but these instructions are relevant to both plugs and jacks. The shape of contacts and insulators may also vary from the drawings shown.

Cable group	Tool	Die	(BS ref)
022	30040	(fixed die)	
	30039	30030WD	(WD)

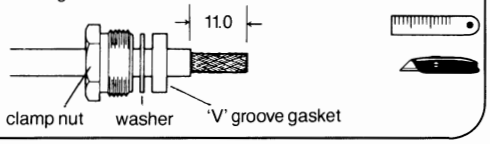
(B)

elbow plugs
captive contact
'V' groove gasket braid clamp
assembly instructions

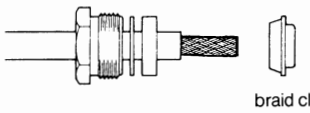
1 Assemble contact and insulators in the sequence shown. Fit them into the body with the contact slot aligned ready for the conductor.



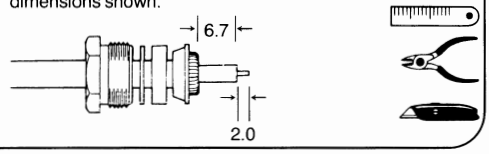
2 Slide clamp nut, washer and 'V' groove gasket over cable and trim the outer sheath as shown. Ensure that the groove in the gasket is towards the free end of the cable.



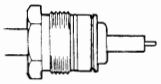
3 Fit braid clamp so that internal shoulder butts against the end of the outer sheath.



4 Fold back braid avoiding crossed wires and trim the surplus braid. Trim dielectric and the centre conductor to the dimensions shown.

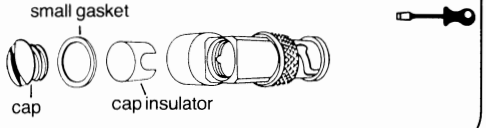


5 Slide 'V' groove gasket, flat washer and clamp nut along to the braid clamp ensuring that the groove seats on the clamp.



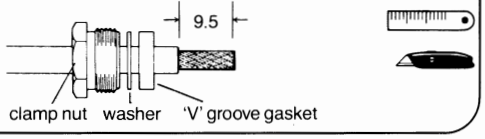
6 Tin centre conductor and press sub-assembly into body. Tighten clamp nut and solder centre conductor to slot in contact.

7 Fit the small gasket onto the cap, then fit the cupped insulator, followed by the cap, into the body and tighten.

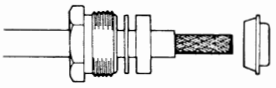


plugs and jacks
bulkhead and panel jacks
captive contact
'V' groove gasket braid clamp
assembly instructions

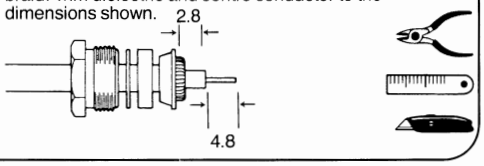
1 Slide clamp nut, washer and 'V' groove gasket over cable and trim outer sheath as shown. Ensure that the groove in the gasket is towards the free end of the cable.



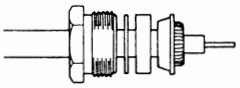
2 Fit braid clamp so that the internal shoulder butts against the end of the outer sheath.



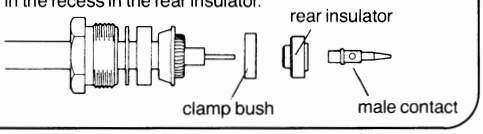
3 Fold back braid avoiding crossed wires and trim excess braid. Trim dielectric and centre conductor to the dimensions shown.



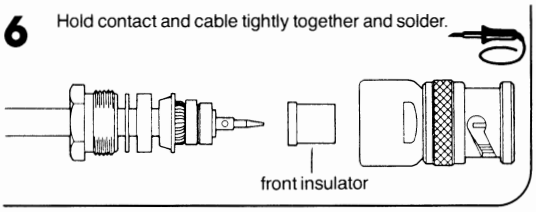
4 Tin centre conductor.



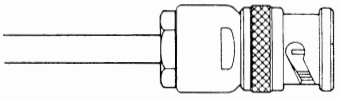
5 Slide clamp bush and rear insulator over dielectric to butt against braid. Fit contact (male for plugs, female for jacks) onto centre conductor so that the collar on the contact seats in the recess in the rear insulator.



6 Hold contact and cable tightly together and solder.



7 Slide 'V' groove gasket, flat washer and clamp nut to braid clamp. Fit front insulator over contact to butt to rear insulator. Press sub-assembly into connector body.



8 Engage and tighten clamp nut.

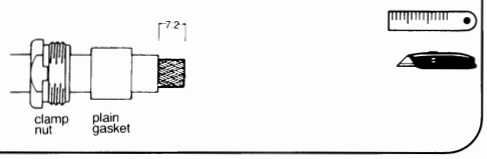
Note: a plug is shown, but these instructions are relevant to both plugs and jacks. The shape of contacts and insulators will vary.

(A) (B)

plugs and bulkhead jacks
pressure sleeve cable clamp
for large cables

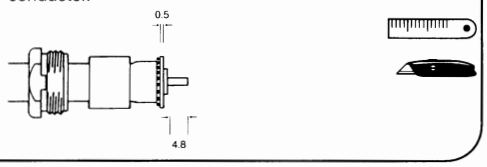
assembly instructions

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

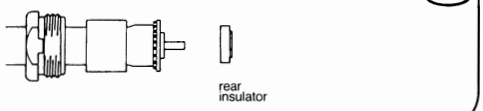


2 Fold back braid and push ferrule over dielectric to trap braid between outer sheath and ferrule. Trim off surplus braid.

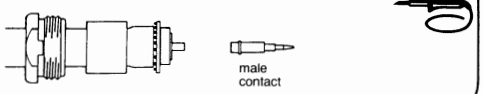
3 Trim dielectric and check length of protruding centre conductor.



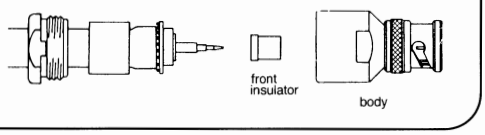
4 Tin centre conductor and slide rear insulator over dielectric to butt against ferrule.



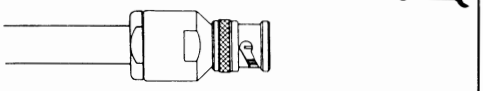
5 Fit contact, (male for plugs, female for jacks) onto centre conductor with the collar pressed into the recess in the rear insulator. Hold cable and contact tightly together and solder.



6 Slide plain gasket and clamp nut to the ferrule, trapping braid. Fit front insulator over contact to butt against rear insulator.



7 Press sub-assembly into body. Engage and tighten clamp nut.



A plug body is shown, but these instructions are relevant to both plugs and jacks. The shape of contacts and insulators will vary.

(A)

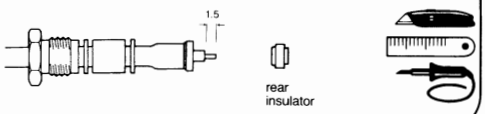
bulkhead jacks
captive contact
pressure sleeve cable clamp

assembly instructions

1 Slide clamp nut, a washer, plain gasket and the other washer over cable. Trim outer sheath from cable as shown.

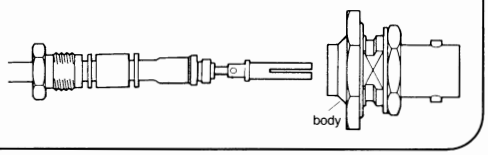
2 Fold back braid and push ferrule over dielectric to trap braid between outer sheath and ferrule. (slit sheath on both sides for 2.5mm if necessary) Trim excess braid.

3 Trim dielectric to the dimension shown and tin the centre conductor. Slide rear insulator over dielectric and into the ferrule.

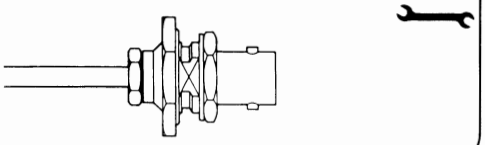


4 Fit contact (male for plugs, female for jacks) onto centre conductor. Hold contact and cable tightlly together and solder.

5 Slide clamp nut, washers and plain gasket up to ferrule, trapping braid. Press sub-assembly into body.



6 Engage and tighten clamp nut.

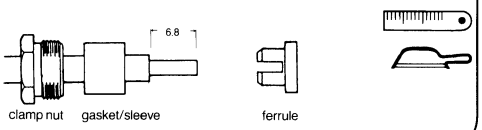


(B)

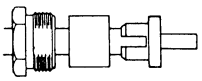
plugs and jacks
captive contact for semi-rigid cable

assembly instructions

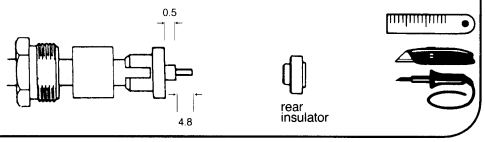
1 Slide clamp nut, plain gasket/metal sleeve over outer conductor and trim as shown.



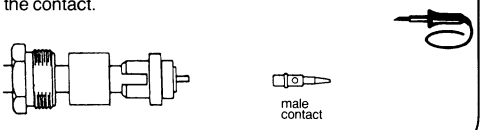
2 Fit the ferrule so that the internal step butts to the end of the outer conductor.



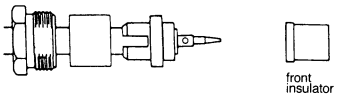
3 Solder the ferrule in this position, melting the solder into the notch and trim the dielectric as shown. Tin the centre conductor.



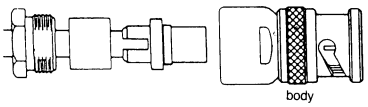
4 Slide the rear insulator over dielectric to butt against ferrule, fit centre contact and holding the assembly tightly, solder the contact.



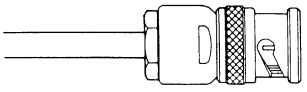
5 Slide gasket/sleeve, and nut to the ferrule.



6 Fit the front insulator and press sub-assembly into the body.



7 Engage and tighten clamp nut.



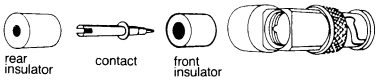
A plug body is shown, but these instructions are relevant to both plugs and jacks. The shape of contacts and insulators will vary.

(A)

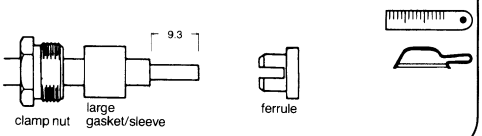
elbow plugs
captive contact, pressure sleeve clamp for semi-rigid cable

assembly instructions

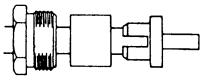
1 Assemble the contact and insulators in the sequence shown. Fit them into the body with the contact slot aligned ready for the conductor.



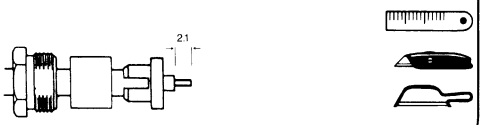
2 Slide clamp nut and large gasket/metal sleeve over cable and trim outer sheath from cable, as shown.



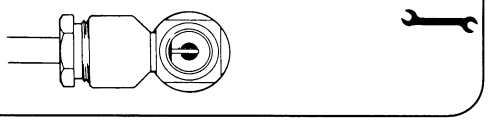
3 Fit the ferrule so that the internal step butts to the end of the outer conductor.



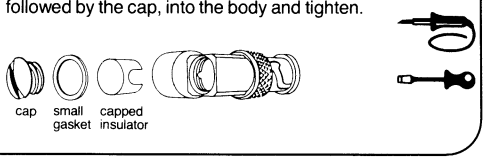
4 Solder the ferrule in this position, melting the solder into the notch and trim the dielectric as shown.



5 Slide the large gasket/metal sleeve and nut to the ferrule, tin centre conductor and press sub-assembly into body. Holding the body and cable rigidly, tighten the nut into the body.



6 Solder the centre conductor to the slot in the contact. Fit the small gasket onto the cap, then fit the cupped insulator, followed by the cap, into the body and tighten.

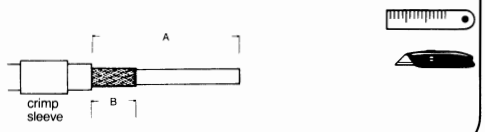


(B)

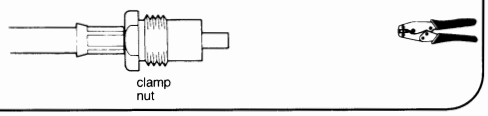
plugs and jacks
captive contact, BT crimp

assembly instructions

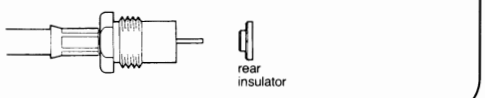
1 Slide rubber sleeve* and crimp sleeve over cable. Trim outer sheath and braid to dimensions shown.



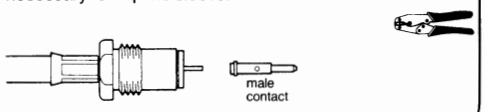
2 Place clamp nut over dielectric and under the braid to butt against the outer sheath. Slide sleeve forward until it butts against the clamp nut and crimp, ensuring that the crimp die is touching the face of the clamp nut.



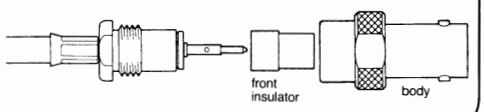
3 Trim the dielectric flush with the clamp nut. Slide rear insulator over centre conductor and into recess in the nut, until the insulator butts against the face of the nut.



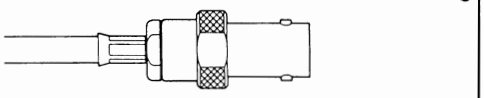
4 Fit contact onto centre conductor until the collar butts against face of rear insulator, trimming the conductor if necessary. Crimp the sleeve.



5 Fit front insulator over the contact so that it touches the rear insulator. Press sub-assembly into the body.



6 Engage and tighten clamp nut.*



Note: a jack body is shown, but these instructions apply to both plugs and jacks. The shape of the contacts and insulators will vary.

* The rubber sleeve is only supplied for cables in group 167. When the assembly is complete, this sleeve should be pulled forward to cover the crimped sleeve and joint.

Dimensions for part 1:

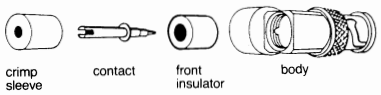
General cables		Cable Group 167	
A=27mm		A=39.5mm	
B=8mm		B=20.5mm	
Cable group	Tool	Die	(BS reference)
030	30039	30030VC	(VC)
062	30039	30030VR	(VR)
117	30039	30030VQ	(VQ)
167	30039	30030VS	(VS)

(A)

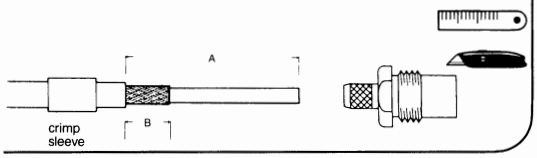
elbow plugs
BT crimp

assembly instructions

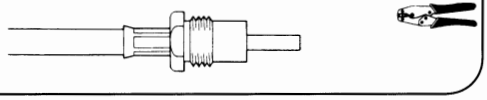
1 Assemble the contact and insulators in the sequence shown.



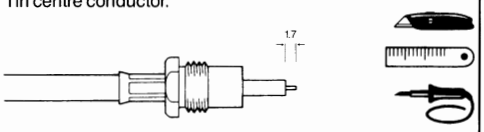
2 Slide rubber sleeve* and crimp sleeve over cable. Trim outer sheath and braid to dimensions shown.



3 Place clamp nut over dielectric to butt against outer sheath face ensuring that the knurled ferrule is inserted between the dielectric and braid. Slide the sleeve along the cable until it butts against the clamp nut. Crimp, using the correct tool from the chart.

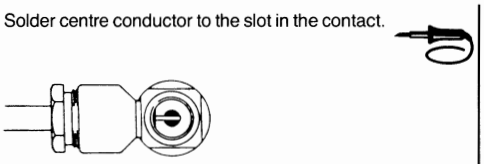


4 Trim dielectric as shown.
Tin centre conductor.

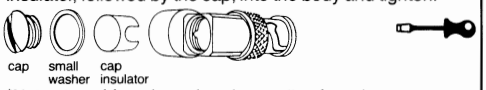


5 Press sub-assembly into the body and tighten the clamp nut.*

6 Solder centre conductor to the slot in the contact.



7 Fit the small gasket onto the cap, then fit the cupped insulator, followed by the cap, into the body and tighten.



*Note: the rubber sleeve is only supplied for cables in group 167. When the assembly is complete, this sleeve should be pulled forward to cover the crimped sleeve and joint.

Dimensions for part 1:

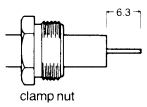
General cables		Cable Group 167	
A=31.5mm		A=44mm	
B=8mm		B=20.5mm	
Cable group	Tool	Die	(BS reference)
030	30039	30030VC	(VC)
062	30039	30030VR	(VR)
117	30039	30030VQ	(VQ)
167	30039	30030VS	(VS)

(B)

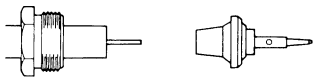
plugs
captive contact,
three part rapid assembly

assembly instructions

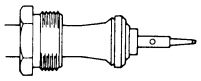
1 Slide clamp nut over cable, trim outer sheath, braid and dielectric flush, as shown.



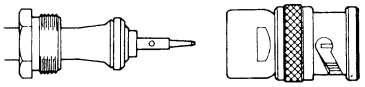
2 Push contact/ferrule sub-assembly onto cable until the dielectric touches the insulator and so that the tapered ferrule enters under the braid. The braid and sheath should cover the outside of the tapered ferrule.



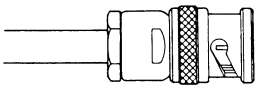
3 Solder centre conductor onto the contact.



4 Push cable assembly into the body.



5 Engage and tighten clamp nut.

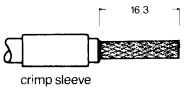


(A)

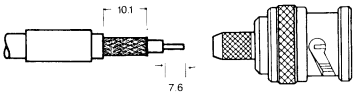
plug
2 parts only for rapidly crimped assembly

assembly instructions

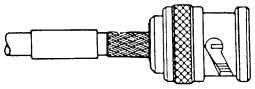
1 Slide crimp sleeve over cable, trim outer sheath as shown.



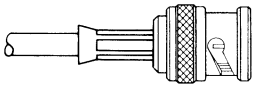
2 Trim braid and dielectric to dimensions



3 Push cable fully into the body to ensure centre conductor is firmly located in centre contact. Ensure knurled ferrule is inserted under the braid



4 Slide crimp sleeve along cable until it butts against the body sub-assembly; then crimp, using tool 30040 or 30039 with die set 30030 WD

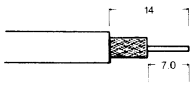


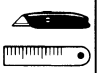
(B)

plug
twist-on, rapid assembly

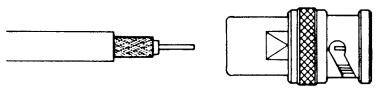
assembly instructions

1 Trim outer sheath, braid and dielectric to the dimensions shown.

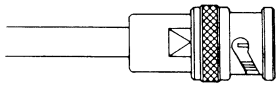




2 Twist braid in a clockwise direction to expose the dielectric.



3 Push the cable into the connector as far as possible and twist-on.

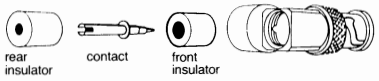


(C)

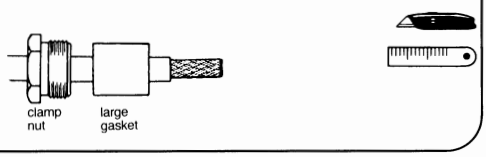
elbow plugs
captive contact, pressure sleeve clamp

assembly instructions

1 Assemble the contact and insulators in the sequence shown. Fit them into the body with the contact slot aligned ready for the conductor.

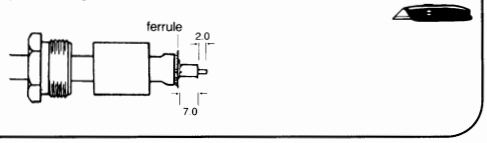


2 Slide clamp nut and large gasket over cable and trim outer sheath from cable as shown.



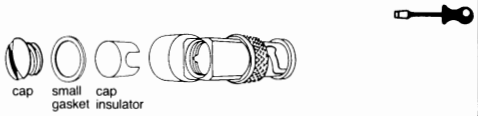
3 Fold back braid, and push ferrule over dielectric to trap braid between end of outer sheath and ferrule. Trim off surplus braid.

4 Slide gasket and nut to ferrule, trapping the braid against the flange. Trim back dielectric and check the length of the protruding centre conductor.



5 Tin centre conductor and press sub-assembly into the body. Tighten clamp nut and solder centre conductor to slot in contact.

6 Fit the small gasket onto the cap, then fit the cupped insulator, followed by the cap, into the body and tighten.

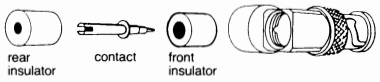


(A)

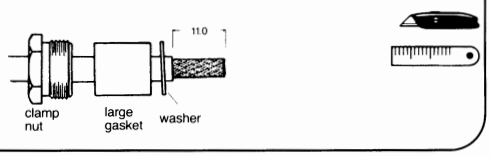
elbow plugs captive contact, pressure sleeve clamp for cables in groups 022 & 024

assembly instructions

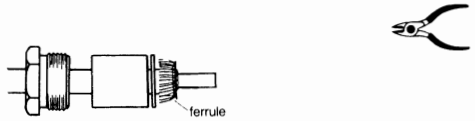
1 Assemble the contact and insulators in the sequence shown. Fit them into the body with the contact slot aligned ready for the conductor.



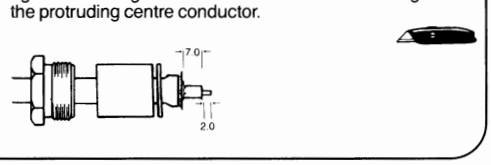
2 Slide clamp nut, large gasket and washer over cable and trim outer sheath from cable as shown.



3 Fold back braid and push ferrule over dielectric to trap braid between end of outer sheath and ferrule. Trim surplus braid.

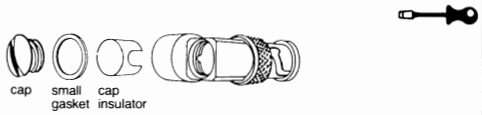


4 Slide gasket nut and washer to ferrule, trapping the braid against the flange. Trim dielectric and check the length of the protruding centre conductor.



5 Tin centre conductor and press sub-assembly into the body. Tighten clamp nut and solder centre conductor to slot in contact.

6 Fit the small gasket onto the cap, than fit the cupped insulator, followed by the cap, into the body and tighten.

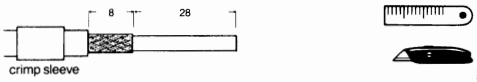


(B)

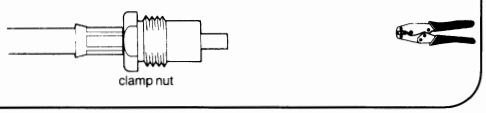
collet lock plug

assembly instructions

1 Slide crimp sleeve over cable and trim outer sheath and braid to dimensions shown.

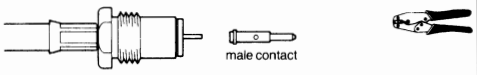


2 Place clamp nut over dielectric and under the braid to butt against the outer sheath. Slide sleeve forward until it butts against the clamp nut and crimp, with the tool touching the nut.

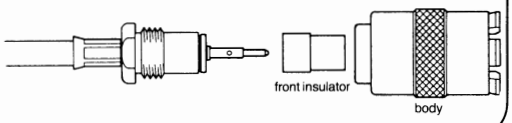


3 Trim dielectric flush with clamp nut. Slide rear insulator over centre conductor and into clamp nut recess until insulator butts to clamp nut.

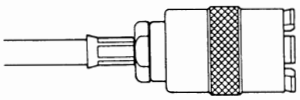
4 Fit contact onto centre conductor until collar butts to rear insulator, trimming conductor if necessary. Crimp the contact.



5 Fit front insulator over contact to butt against rear insulator. Press sub-assembly into the body.



6 Engage and tighten clamp nut.



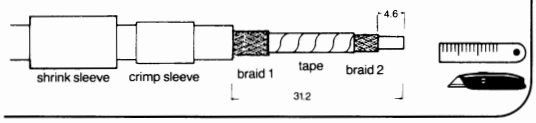
Use crimping tool reference No 30040 or, 30039 with die set 30030 WD

(A)

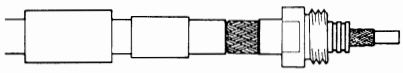
collet lock plug
captive contact

assembly instructions

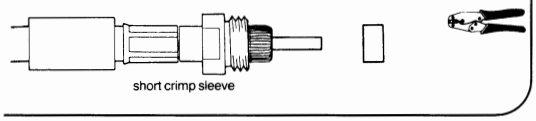
1 Slide shrink sleeve and long crimp sleeve over cable. Trim outer sheath and braid to dimensions shown. (For cable with three braids, trim outer-most braid to the 31.2mm dimension shown)



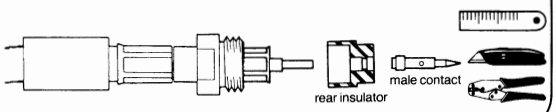
2 Place knurled part of ferrule over tape and under braid 1. Slide long crimp sleeve over braid to butt against ferrule and then crimp, using tool 30040 or 30039 with die set 30030 WD



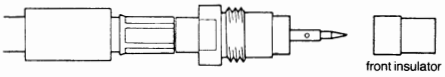
3 Fold braid 2 back over grooved portion of ferrule. Slide short crimp sleeve over braid to butt against ferrule and crimp. Trim excess braid.



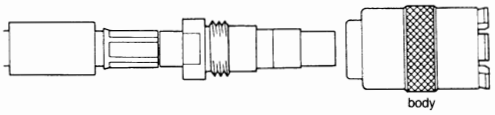
4 Trim dielectric to dimension shown. Slide rear insulator over cable and onto short crimp sleeve. Fit contact over centre conductor to butt against insulator and then crimp.



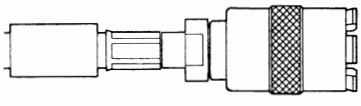
5 Fit front insulator over contact to butt against rear insulator.



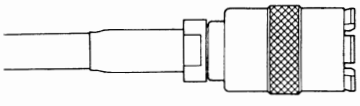
6 Press sub-assembly into the body.



7 Engage and tighten ferrule to a torque of 4Nm.



8 Slide shrink sleeve forward over crimped sleeve and apply heat.



(B)

methods of cable retention

crimp

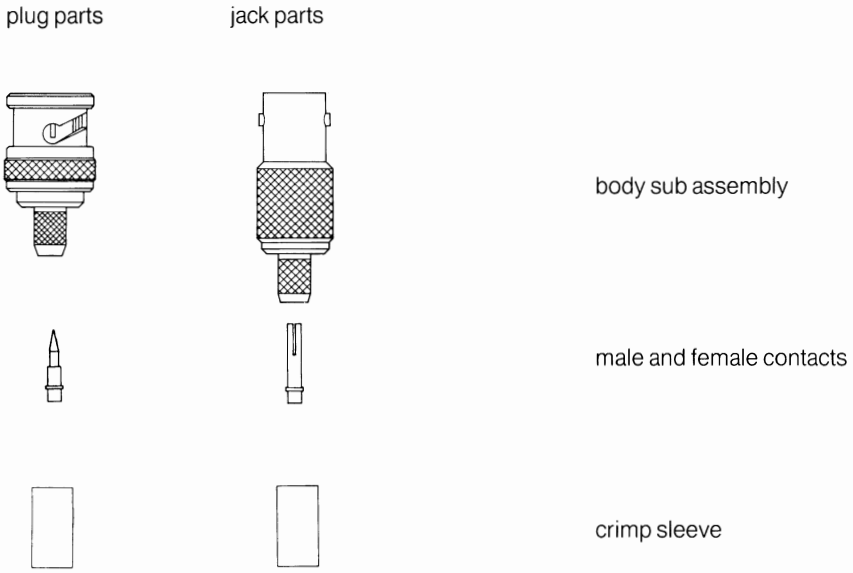
A crimped connector comprises only a few piece parts and produces a consistent result almost independent of the skill of the operator.

The braid is secured by being trapped between a crimped metal sleeve and the body of the connector. Once the cable has been prepared the assembly operation is very rapid.

Crimping is a 'cold' process, requiring no external power and therefore presenting no risk in dangerous or explosive environments. The crimping tool is required to match the connector dimensions precisely and may therefore be limited to a particular range of cables but the result is a quick, reliable connection which in many cases provides a greater 'pull-off' resistance than the equivalent clamp.

Standard crimp connectors are not re-usable. If re-termination is required, the unwanted connector must be cut from the cable end.

piece parts in typical crimp connectors



solder/clamp

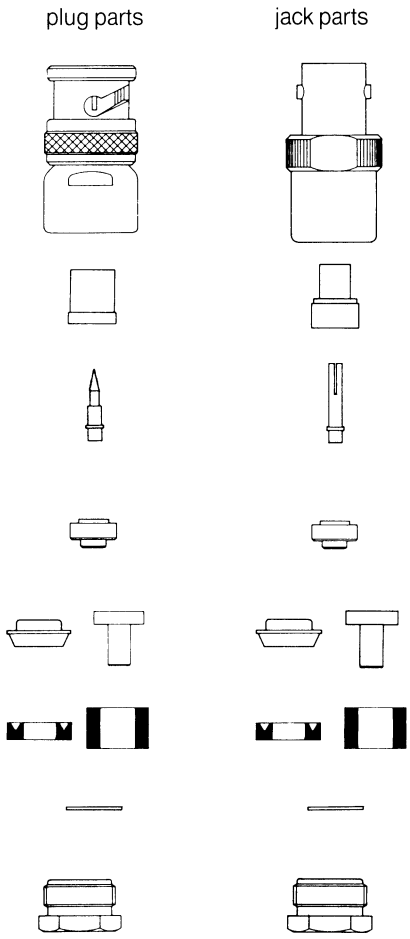
The clamp method of fastening connectors to co-axial cable requires mechanical clamping of the braid, usually by means of a threaded nut, and soldering of the centre conductor to the contact.

Securing the braid involves the assembly of a number of piece parts onto the cable after preparing the cable end. Satisfactory soldering requires a suitable small soldering iron with a power source, and an experienced operator.

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 without shortening the cable.

piece parts in typical solder/ clamp connectors

This page shows typical piece parts used in BNC connectors. For additional information, and to assist recognition and checking of parts supplied, turn to the appropriate assembly instruction pages.
Where several parts are shown side by side, there would normally be only one of them per product. The simplest connector products might only have two or three piece parts in total.



body

front insulator
(pre-assembled in some connectors)

male & female contacts
(may be captive or non-captive)

rear insulator
(supplied with only captive contacts)

clamp bushing and braid clamp
(used with V groove gasket system)
or ferrule (used with pressure sleeve clamp styles)

plain gasket or 'V' groove gasket

washer (supplied with some styles)

clamp nut

key to symbols

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

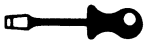
stout trimming blade, suitable for cutting copper wire braid

crimping tool – for more details, see page 28

soldering iron

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.

BNC	This catalogue relates exclusively to BNC connectors and associated components. These are small bayonet-lock coaxial connectors available in two 'intermateable' ranges of 50 ohm and 75 ohm impedance typically used with cables of 5-6mm diameter such as RG-58 and RG-59: styles for smaller and larger cables are also available. The standard bodies are brass, finished in nickel or silver plate with gold or silver inner contacts.
TNC	Screw-coupled versions of the BNC series, in a comprehensive range of intermateable 50 and 75 ohm BNC equivalents. The increased rigidity of the screw coupling gives a more consistent performance under adverse operating conditions. Silver plated brass is the standard for TNC connectors, but as with BNC, nickel plated versions are used for less demanding applications.
N	Screw coupled coaxial connectors widely used in test and measurement systems also aerial installations. Larger than BNC, they also give better performance, especially with large cables such as RG-213 and RG-214. A particularly wide range of styles is available in both 50 and 75 ohm impedance; although items of different impedance are not intermateable.
UHF	Robust r.f. connectors for general purpose, low cost applications, suitable for a wide variety of small to medium size r.f. cables. The UHF connector was one of the first coaxial connectors to be widely used, but owing to its design, it is not suitable for very high frequency use. Because of its durability it is still widely used in low frequency r.f. and video applications. UHF bodies are silver or nickel plated brass with silver plated brass contacts. A small range of UHF twin items is available for use with twin-conductor, screened cables.
C & SC-A	Bayonet coupled coaxial connectors, larger than BNC and able to carry higher power. They are suitable for larger cables such as RG-213 and are generally used in more demanding applications. Series SC is a screw coupled variant of the series C and Greenpar offers the European "SC-A" which is not intermateable with the MIL-C-39012 version used in the USA. C and SC-A ranges are available as 50 or 75 ohm versions none of which are intermateable.
Computer Twinax	A range of twin contact screened connectors widely used in computer systems. The connector bodies are robustly constructed to provide long term reliability despite rough handling and the mating faces are polarised to prevent incorrect connection. All the components in this series meet the requirements of the relevant IBM specifications. Bodies are nickel plated brass with silver plated inner contacts.
BNO & TNO	Similar to the popular BNC coaxial connectors, but incorporating polarised twin contacts, one male and one female. The TNO range is a further development, employing a threaded coupling for increased security and using the BNC style "pips" on each side of the body to resist axial torque. TNO sockets accept both types of plug, and both ranges are designed to suit balanced twin rf cables including RG-108A/U, DRM 68 and carrier twin cable to BT specification CW 155C.
F	A low cost connector finding increasing use in cable TV and related applications. Plug items generally use the cable centre conductor as the inner contact. Body parts are nickel plated brass, with crimp connection to coaxial cable.
SMA	Miniature high performance connectors offering good performance to 18GHz and beyond. The design is optimised for use with RG-402/U ("UT-141") semi-rigid cable, but also offers excellent performance with other semi-rigid and flexible cables. SMA connectors have gold plated or passivated stainless steel bodies with gold plated beryllium copper contacts.
SMB-C-D	Comprising three related miniature connector ranges. SMB feature snap-on connection, SMC uses screw coupling, whilst SMD are slide on. Performance is similar to that of the BNC series, but their smaller size - smaller than the SMA range for 50 ohm types - make them ideal general purpose miniature connectors. The 75 ohm versions have larger body sizes than the 50 ohm, and are fully matched for best r.f. performance.
PMMA	A special purpose proprietary range for the interconnection of modular microwave systems. These connectors do not require precise alignment before mating, since the plug items provide both axial and radial float and are thus self-aligning with the corresponding socket: making them ideal for blind mating applications. Plugs and jacks are available for semi-rigid and small cables. Plug contacts are gold-plated, whilst other metal parts are passivated stainless steel with gold plating as an option.
MCX	Miniature connectors based on the proven principles of SMB, but smaller and lighter. MCX has been developed through careful elimination of piece parts, yet retains high performance up to 2GHz. The right-angle versions have a very low profile and permit wiring to run parallel to mounting panel or p.c.b. Crimp or solder variants are available to accept cable up to 3mm OD, plus pcb and socket items.
SHV	High Voltage screened connectors with recessed contacts, for safe use up to 5kV d.c. These connectors meet the IEC 498(B) specification, and are available to suit RG-58 and RG-59 cables.
miscellaneous	special connectors, components and assemblies. These ranges include: Greenpar proprietary Inter-series adaptor system; one piece adaptors; attenuators; terminations and power dividers; circuit boxes; EMP protection devices; standard and precision cable assemblies; Telecom and Ethernet assemblies.

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30002	B30 Z02 •999 X99	24
30003	B30 Z03 •999 X99	24
30004	B30 Z04 •999 X99	24
35001-10	B35 A11 •010 X99	7
35001C10	B35 A01 •010 X99	7
35001C22	B35 A01 •022 X99	7
35001C24	B35 A01 •024 X99	7
35001C29	B35 A01 •029 X99	7
35001C30	B35 A01 •030 X99	7
35001C73	B35 A01 •073 X99	7
35002A10	B35 B12 •010 X99	9
35002C10	B35 B02 •010 X99	9
35002C22	B35 B02 •022 X99	9
35002C24	B35 B02 •024 X99	9
35002C29	B35 B02 •029 X99	9
35002C30	B35 B02 •030 X99	9
35002C60	B35 B02 •060 X99	9
35002C73	B35 B02 •073 X99	9
35002C9	B35 B02 •009 X99	9
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35003C30	B35 E03 •030 X99	11
35003C73	B35 E03 •073 X99	11
35004-10†	B35 G14 •010 †99	12
35004C10†	B35 G04 •010 †99	12
35004C22†	B35 G04 •022 †99	12
35004C24†	B35 G04 •024 †99	12
35004C29†	B35 G04 •029 †99	12
35004C30†	B35 G04 •030 †99	12
35004C73†	B35 G04 •073 †99	12
35005-10	B35 H05 •010 X99	14
35007†	B35 K07 •999 †99	19
35008	B35 M08 •999 X99	17
35009	B35 M09 •999 X99	18
35010/50R	B35 Z10 •501 X99	25
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35011	B35 Z11 •999 X99	24
35013	B35 M13 •999 X99	17
35014†	B35 K14 •999 †99	19
35018-10	B35 A18 •010 X99	7
35019-25	B37 A19 •025 X99	7
35020-10	B35 E20 •010 X99	11
35021-25	B37 E21 •025 X99	11
35022-25	B37 E22 •025 X99	11
35023-25†	B37 G23 •025 †99	12
35024-10†	B35 G24 •010 †99	13
35025-25†	B37 G25 •025 †99	13
35026	B35 M26 •999 X99	17
35027	B35 M27 •999 X99	17
35028	B35 R28 •999 X99	22
35029	B35 M29 •999 X99	17
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35030C24	B35 H30 •024 X99	14
35030C29	B35 H30 •029 X99	14
35030C30	B35 H30 •030 X99	14
35030C73	B35 H30 •073 X99	14
35031	B35 P31 •999 X99	23
35032	B35 P32 •999 X99	23
35033/50R	B35 Z33 •501 X99	25

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35035-25†	B37 G35 •025 †99	13
35039-10	B35 H06 •010 X99	14
35039A10	B35 H07 •010 X99	14
35039C10	B35 H39 •010 X99	14
35039C22	B35 H39 •022 X99	14
35039C60	B35 H39 •060 X99	14
35039C9	B35 H39 •009 X99	14
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35047-25	B37 A47 •025 X99	7
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35049	B35 M49 •999 X99	18
35050-25	B37 H50 •025 X99	14
35057-10†	B35 G06 •010 †99	13
35057A10†	B35 G07 •010 †99	13
35057C22†	B35 G57 •022 †99	13
35057C60†	B35 G57 •060 †99	13
35057C9†	B35 G57 •009 †99	13
35060-10	B35 E06 •010 X99	11
35060A10	B35 E07 •010 X99	11
35060C10	B35 E60 •010 X99	11
35060C22	B35 E60 •022 X99	11
35060C60	B37 E60 •060 X99	11
35060C9	B35 E60 •009 X99	11
35061C27	B35 E61 •027 X99	11
35061C41	B35 E61 •041 X99	11
35061C74	B35 E61 •074 X99	11
35061C79	B35 E61 •079 X99	11
35062	B35 M13 •002 X99	17
35063	B35 M63 •999 X99	17
35070-10	B35 A06 •010 X99	7
35070A10	B35 A07 •010 X99	7
35070C10	B35 A70 •010 X99	7
35070C22	B35 A70 •022 X99	7
35070C60	B35 A70 •060 X99	7
35070C9	B35 A70 •009 X99	7
35071C27	B35 A71 •027 X99	7
35071C41	B35 A71 •041 X99	7
35071C74	B35 A71 •074 X99	7
35071C79	B35 A71 •079 X99	7
35076	B35 D76 •999 X99	10
35079C1	B35 H79 •001 X99	15
35079C4	B35 H79 •004 X99	15
35081	B35 R81 •999 X99	22
35083†	B35 K83 •999 †99	19
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35086	B35 C86 •999 X99	10
35096	B35 P96 •999 X99	22
35098/50R	B35 Z98 •501 X99	25
35098/75R	B37 Z98 •751 X99	25
35103C4	B35 A03 •004 X99	8
35103C1	B35 A03 •001 X99	8
35141D10	B35 A41 •010 X99	8
35141D22	B35 A41 •022 X99	8
35141D25	B35 A41 •A25 X99	8
35141D60	B35 A41 •060 X99	8
35141D7	B35 A41 •B07 X99	8
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35143D22	B35 E43 •022 X99	12
35143D25	B35 E43 •A25 X99	12
35143D60	B35 E43 •060 X99	12

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35144D22†	B35 G44 •022 †99	13
35144D25†	B35 G44 •A25 †99	13
35144D60†	B35 G44 •060 †99	13
35144D7†	B35 G44 •B07 †99	13
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35145D22	B35 H45 •022 X99	16
35145D25	B35 H45 •A25 X99	16
35145D60	B35 H45 •060 X99	16
35145D7	B35 H45 •B07 X99	16
35100	B35 M00 •022 X99	17
35203C22	B35 H03 •022 X99	15
35203C24	B35 H03 •024 X99	15
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35218	B35 M18 •999 X99	18
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35226D334	B35 A26 •344 X99	10
35226D339	B35 A26 •339 X99	10
35226D60	B35 A26 •060 X99	10
35228D10	B35 B28 •010 X99	9
35228D22	B35 B28 •022 X99	9
35228D25	B35 B28 •A25 X99	9
35228D60	B35 B28 •060 X99	9
35228D7	B35 B28 •B07 X99	9
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35261	B35 N61 •999 X99	20
35262	B35 N62 •999 X99	20
35263	B35 N63 •999 X99	20
35264	B35 N64 •999 X99	20
35281C22	B35 H81 •022 X99	15
35281C24	B35 H81 •024 X99	15
35282	B35 N82 •999 X99	21
35283	B35 N83 •999 X99	21
35287	B35 R87 •999 X99	22
35288	B35 R88 •999 X99	22
35292	B35 N92 •999 X99	21
35293	B35 N93 •999 X99	21
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37141D350/2	B37 A41 •350 X99	8
37141D52/1	B37 A41 •052 X99	8
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37141D7	B37 A41 •B07 X99	8
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37143D52/1	B37 E43 •052 X99	12
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37143D7	B37 E43 •007 X99	12
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37144D22†	B37 G44 •022 †99	13
37144D25†	B37 G44 •A25 †99	13
37144D350†	B37 G44 •350 †99	13
37144D52†	B37 G44 •052 †99	13
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Note: • plating finish code – see pages 5 & 6 for details.
† denotes fixing hole size code for panel mounted items, see page 5 for details.

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37145D25	B37 H45 •A25 X99	16
37145D350/2	B37 H45 •350 X99	16
37145D52/1	B37 H45 •052 X99	16
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37145D7	B37 H45 •007 X99	16
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37228D7	B37 B28 •B07 X99	9
37242D25/1	B37 B42 •B25 X99	9
37243D25/1	B37 E43 •B25 X99	12
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37279D25/1	B37 H79 •B25 X99	15
37284D402	B37 A41 •D25 X99	8
37287	B37 R87 •999 X99	22
37296BN	B37 A96 •A25 X99	8
37288	B37 R88 •999 X99	22
37502A25	B37 B12 •025 X99	9
37502C117	B37 B02 •117 X99	9
37502C119	B37 B02 •119 X99	9
37502C12	B37 B02 •012 X99	9
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37502C62	B37 B02 •062 X99	9
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37514†	B37 K14 •999 †99	19
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37532	B37 P32 •999 X99	22
37534	B37 P34 •999 X99	22
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37557C52†	B37 G57 •052 †99	13
37557C62†	B37 G57 •062 †99	13
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37570C12	B37 A70 •012 X99	7
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37571C27	B37 A71 •027 X99	7
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50028	A55 P28 •999 X99	23
50031	A55 P31 •999 X99	22
50033	A55 P33 •999 X99	22
50034	A55 P34 •999 X99	22
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80060	B35 X60 •999 X99	24
80066	B35 X66 •999 X99	24
80067	B35 X67 •999 X99	24
80068	B35 X68 •999 X99	24
80073	B35 X73 •999 X99	26
80074	B35 X74 •999 X99	26
80075	B35 X75 •999 X99	26
80078	B35 X78 •999 X99	26
80520	B35 X20 •999 X20	26
85021/3dB	B35 X21 •003 X99	25
80521/6dB	B35 X21 •006 X99	25
80521/10dB	B35 X21 •010 X99	25
80521/26dB	B35 X21 •026 X99	25
80530	B37 X30 •999 X99	26
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80721/3dB	B37 X21 •003 X99	25
80721/6dB	B37 X21 •006 X99	25
80721/10dB	B37 X21 •010 X99	25
80721/30dB	B37 X21 •030 X99	25
84013	B35 X13 •999 X99	26
84033	B37 X33 •999 X99	26

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A55	P04	•999	X99	50004	23
A55	P07	•999	X99	50007	23
A55	P08	•999	X99	50008	23
A55	P28	•999	X99	50028	23
A55	P31	•999	X99	50031	23
A55	P33	•999	X99	50033	23
A55	P34	•999	X99	50034	23
A55	P36	•999	X99	50036	23
A55	P38	•999	X99	50038	23
B30	Z01	•999	X99	30001	24
B30	Z02	•999	X99	30002	24
B30	Z03	•999	X99	30003	24
B30	Z04	•999	X99	30004	24
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B35	A01	•022	X99	35001C22	7
B35	A01	•024	X99	35001C24	7
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B35	A01	•073	X99	35001C73	7
B35	A03	•001	X99	35103C1	8
B35	A03	•004	X99	35103C4	8
B35	A06	•010	X99	35070-10	7
B35	A07	•010	X99	35070A10	7
B35	A11	•010	X99	35001-10	7
B35	A18	•010	X99	35018-10	7
B35	A26	•010	X99	35226D10	10
B35	A26	•060	X99	35226D60	10
B35	A26	•339	X99	35226D339	10
B35	A26	•344	X99	35226D334	10
B35	A41	•A25	X99	35141D25	8
B35	A41	•B07	X99	35141D7	8
B35	A41	•010	X99	35141D10	8
B35	A41	•022	X99	35141D22	8
B35	A41	•060	X99	35141D60	8
B35	A70	•009	X99	35070C9	7
B35	A70	•010	X99	35070C10	7
B35	A70	•022	X99	35070C22	7
B35	A70	•025	X99	37570C25	7
B35	A70	•060	X99	35070C60	7
B35	A71	•027	X99	35071C27	7
B35	A71	•027	X99	37571C27	7
B35	A71	•041	X99	35071C41	7
B35	A71	•074	X99	35071C74	7
B35	B02	•009	X99	35002C9	9
B35	B02	•010	X99	35002C10	9
B35	B02	•022	X99	35002C22	9
B35	B02	•024	X99	35002C24	9
B35	B02	•029	X99	35002C29	9
B35	B02	•030	X99	35002C30	9
B35	B02	•060	X99	35002C60	9
B35	B02	•073	X99	35002C73	9
B35	B12	•010	X99	35002A10	9
B35	B28	•A25	X99	35228D25	9
B35	B28	•B07	X99	35228D7	9
B35	B28	•010	X99	35228D10	9
B35	B28	•022	X99	35228D22	9
B35	B28	•060	X99	35228D60	9
B35	C86	•999	X99	35086	10
B35	D76	•999	X99	35076	10
B35	E03	•022	X99	35003C22	11
B35	E03	•024	X99	35003C24	11
B35	E03	•029	X99	35003C29	11
B35	E03	•030	X99	35003C30	11
B35	E03	•073	X99	35003C73	11

new number				old number	page
B35	E03	•010	X99	35003C10	11
B35	E06	•010	X99	35060-10	11
B35	E07	•010	X99	35060A10	11
B35	E13	•010	X99	35003-10	11
B35	E20	•010	X99	35020-10	11
B35	E43	•A25	X99	35143D25	12
B35	E43	•007	X99	35143D7	12
B35	E43	•010	X99	35143D10	12
B35	E43	•022	X99	35143D22	12
B35	E43	•060	X99	35143D60	12
B35	E60	•009	X99	35060C9	11
B35	E60	•010	X99	37560C10	11
B35	E60	•022	X99	35060C22	11
B35	E60	•060	X99	35060C60	11
B35	E61	•027	X99	35061C27	11
B35	E61	•041	X99	35061C41	11
B35	E61	•074	X99	35061C74	11
B35	E61	•079	X99	35061C79	11
B35	G04	•010	†99	35004C10†	12
B35	G04	•022	†99	35004C22†	12
B35	G04	•024	†99	35004C24†	12
B35	G04	•029	†99	35004C29†	12
B35	G04	•030	†99	35004C30†	12
B35	G04	•073	†99	35004C73†	12
B35	G06	•010	†99	35057-10†	13
B35	G07	•010	†99	35057A10†	13
B35	G14	•010	†99	35004-10†	12
B35	G24	•010	†99	35024-10†	13
B35	G44	•A25	†99	35144D25†	13
B35	G44	•B07	†99	35144D7†	13
B35	G44	•010	†99	35144D10†	13
B35	G44	•022	†99	35144D22†	13
B35	G44	•060	†99	35144D60†	13
B35	G57	•009	†99	35057C†	13
B35	G57	•010	†99	35057C10†	13
B35	G57	•060	†99	35057C60†	13
B35	G57	•022	†99	35057C22†	13
B35	H03	•022	X99	35203C22	15
B35	H03	•024	X99	35203C24	15
B35	H05	•010	X99	35005-10	14
B35	H06	•010	X99	35039-10	14
B35	H07	•010	X99	35039A10	14
B35	H30	•010	X99	35030C10	14
B35	H30	•022	X99	35030C22	14
B35	H30	•024	X99	35030C24	14
B35	H30	•029	X99	35030C29	14
B35	H30	•030	X99	35030C30	14
B35	H30	•073	X99	35030C73	14
B35	H39	•009	X99	35039C9	14
B35	H39	•010	X99	35039C10	14
B35	H39	•022	X99	35039C22	14
B35	H39	•060	X99	35039C60	14
B35	H45	•A25	X99	35145D25	16
B35	H45	•B07	X99	35145D7	16
B35	H45	•010	X99	35145D10	16
B35	H45	•022	X99	34145D22	16
B35	H45	•060	X99	35145D60	16
B35	H79	•001	X99	35079C1	15
B35	H79	•004	X99	35079C4	15
B35	H81	•022	X99	35281C22	15
B35	H81	•024	X99	35281C24	15
B35	K07	•999	†99	35007†	19
B35	K14	•999	†99	35014†	19
B35	K83	•999	†99	35083†	19

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B35	M08	•999	X99	35008	17
B35	M09	•999	X99	35009	18
B35	M13	•999	X99	35013	17
B35	M18	•999	x99	35218	18
B35	M26	•999	x99	35026	17
B35	M27	•999	X99	35027	17
B35	M29	•999	X99	35029	17
B35	M41	•999	x99	35041	17
B35	M43	•999	X99	35043	17
B35	M46	•999	X99	35246	18
B35	M49	•999	X99	35049	18
B35	M13	•002	S99	35062	17
B35	M63	•999	X99	35063	17
B35	M66	•999	X99	35166	17
B35	M84	•999	X99	35084	17
B35	N14	•999	X99	35214	20
B35	N57	•999	X99	35257	20
B35	N61	•999	X99	35261	20
B35	N62	•999	X99	35262	20
B35	N63	•999	X99	35263	20
B35	N64	•999	X99	35264	20
B35	N82	•999	X99	35282	21
B35	N83	•999	X99	35283	21
B35	N92	•999	X99	35292	21
B35	N93	•999	X99	35293	21
B35	N94	•999	X99	35294	21
B35	N95	•999	X99	35295	21
B35	P31	•999	X99	35031	22
B35	P32	•999	X99	35032	22
B35	P34	•999	X99	35034	23
B35	P96	•999	X99	35096	22
B35	R28	•999	X99	35028	22
B35	R81	•999	X99	35081	22
B35	R87	•999	X99	35287	22
B35	R88	•999	X99	35288	22
B35	X13	•999	X99	84013	26
B35	X20	•999	X99	80520	26
B35	X21	•003	X99	80521/3dB	25
B35	X21	•006	X99	80521/6dB	25
B35	X21	•010	X99	80521/10dB	25
B35	X21	•020	X99	80521/20dB	25
B35	X60	•999	X99	80060	24
B35	X66	•999	X99	80066	24
B35	X67	•999	X99	80067	24
B35	X68	•999	X99	80068	24
B35	X73	•999	X99	80073	26
B35	X74	•999	X99	80074	26
B35	X75	•999	X99	80075	26
B35	X78	•999	X99	80078	26
B35	Z10	•501	X99	35010/50R	25
B35	Z11	•999	X99	35011	24
B35	Z33	•501	X99	35033/50R	25
B35	Z98	•501	X99	35098/50R	25
B37	A07	•025	X99	37570A25	7
B37	A19	•025	X99	35019-25	7
B37	A26	•062	X99	37226D62	10
B37	A41	•A25	X99	37141D25	8
B37	A41	•B25	X99	37141D25/1	8
B37	A41	C25	X99	37141D25/2	8
B37	A41	•D25	X99	37284D402	8
B37	A41	•B07	X99	37141D7	8
B37	A41	•012	X99	37141D12	8
B37	A41	•022	X99	37141D22	8

Note: • plating finish code – see pages 5 and 6 for details.
† denotes fixing hole size code for panel mounted items, see page 5 for details.

new number				old number	page
B37	A41	•052	X99	37141D52/1	8
B37	A41	•B52	X99	37141D52/2	
B37	A41	•350	X99	37141D350/2	8
B37	A47	•025	X99	35047-25	7
B37	A48	•025	X99	35048-25	7
B37	A53	•025	X99	35253K25	7
B37	A55	•062	X99	37255D62	8
B37	A55	•117	X99	37255D117	8
B37	A70	•012	X99	37570C12	7
B37	A70	•022	X99	37570C22	7
B37	A70	•030	X99	37570C30	7
B37	A70	•052	X99	37570C52	7
B37	A70	•062	X99	37570C62	7
B37	A70	•117	X99	37570C117	7
B37	A70	•119	X99	37570C119	7
B37	A71	•B07	X99	37571C7	7
B37	A71	•028	X99	37571C28	7
B37	A71	•079	X99	37571C79	7
B37	A74	•A25	X99	37274D25	8
B37	A91	•030	X99	37191D30	8
B37	A91	•062	X99	37191D62	8
B37	A91	•117	X99	37191D117	8
B37	A91	•167	X99	37191D167	8
B37	A96	•A25	X99	37296BN	8
B37	B02	•012	X99	37502C12	9
B37	B02	•022	X99	37502C22	9
B37	B02	•025	X99	37502C25	9
B37	B02	•030	X99	37502C30	9
B37	B02	•052	X99	37502C52	9
B37	B02	•062	X99	37502C62	9
B37	B02	•117	X99	37502C117	9
B37	B02	•119	X99	37502C119	9
B37	B12	•025	X99	37502A25	9
B37	B28	•A25	X99	37228D25	9
B37	B28	•007	X99	37228D7	9
B37	B28	•012	X99	37228D12	9
B37	B28	•022	X99	37228D22	9
B37	B28	•052	X99	37228D52	9
B37	B28	•350	X99	37228D350	9
B37	B42	•B25	X99	37242D25/1	9
B37	B92	•030	X99	37192D30	10
B37	B92	•062	X99	37192D62	10
B37	B92	•117	X99	37192D117	10
B37	B92	•167	X99	37192D167	10
B37	C86	•999	X99	37586	10
B37	D76	•999	X99	37576	10
B37	E07	•025	X99	37560A25	11
B37	E21	•025	X99	35021-25	11
B37	E22	•025	X99	35022-25	11
B37	E43	•A25	X99	37143D25	12
B37	E43	•B25	X99	37243D25/1	12
B37	E43	•B52	X99	37143D52/2	
B37	E43	•B07	X99	37143D7	12
B37	E43	•012	X99	37143D12	12
B37	E43	•022	X99	37143D22	12
B37	E43	•052	X99	37143D52/1	12
B37	E43	•350	X99	37143D350/2	12
B37	E60	•012	X99	37560C12	11
B37	E60	•022	X99	37560C22	11
B37	E60	•025	X99	37560C25	11
B37	E60	•030	X99	37560C30	11
B37	E60	•052	X99	37560C52	11
B37	E60	•060	X99	35060C60	11
B37	E60	•062	X99	37560C62	11

new number				old number	page
B37	E60	•119	X99	37560C119	11
B37	E93	•030	X99	37193D30	12
B37	E93	•062	X99	37193D62	12
B37	E93	•117	X99	37193D117	12
B37	E93	•167	X99	37193D167	12
B37	G07	•025	†99	37557A25†	13
B37	G23	•025	†99	35023-25†	12
B37	G25	•025	†99	35025-25†	13
B37	G35	•025	†99	35035-25†	13
B37	G44	•A25	†99	37144D25†	13
B37	G44	•B25	†99	37244D25/1†	13
B37	G44	•B07	†99	37144D7†	13
B37	G44	•012	†99	37144D12†	13
B37	G44	•022	†99	37144D22†	13
B37	G44	•052	†99	37144D52†	13
B37	G44	•350	†99	37144D350†	13
B37	G57	•117	†99	37557C117†	13
B37	G57	•119	†99	37557C119†	13
B37	G57	•022	†99	37557C22†	13
B37	G57	•025	†99	37557C25†	13
B37	G57	•030	†99	37557C30†	13
B37	G57	•052	†99	37557C52†	13
B37	G57	•062	†99	37557C12†	13
B37	G57	•062	†99	37557C62†	13
B37	G94	•030	†99	37194D30†	14
B37	G94	•062	†99	37194D62†	14
B37	G94	•117	†99	37194D117†	14
B37	G94	•167	†99	37194D67†	14
B37	H07	•025	X99	37539A25	14
B37	H39	•012	X99	37539C12	14
B37	H39	•022	X99	37539C22	14
B37	H39	•025	X99	37539C25	14
B37	H39	•030	X99	37539C30	14
B37	H39	•052	X99	37539C52	14
B37	H39	•062	X99	37539C62	14
B37	H39	•117	X99	37539C117	14
B37	H39	•119	X99	37539C119	14
B37	H40	•025	X99	35040-25	14
B37	H45	•A25	X99	37145D25	16
B37	H45	•B25	X99	37245D25/1	16
B37	H45	•B07	X99	37145D7	16
B37	H45	•012	X99	37145D12	16
B37	H45	•022	X99	37145D22	16
B37	H45	•052	X99	37145D52	16
B37	H45	•350	X99	37145D350	16
B37	H50	•025	X99	35050-25	14
B37	H79	•B25	X99	37279D25/1	15
B37	H95	•030	X99	37195D30	16
B37	H95	•062	X99	37195D62	16
B37	H95	•117	X99	37195D117	16
B37	H95	•167	X99	37195D167	16
B37	K07	•999	†99	37507†	16
B37	K14	•999	†99	37514†	16
B37	K83	•999	†99	37583†	16
B37	M08	•999	X99	37508	17
B37	M09	•999	X99	37509	18
B37	M13	•999	X99	37513	17
B37	M26	•999	X99	37526	17
B37	M27	•999	X99	37527	17
B37	M29	•999	X99	37529	17
B37	M43	•999	X99	37543	17
B37	M49	•999	X99	37549	18
B37	M13	•002	S99	37562	17
B37	M63	•999	X99	37563	17

new number				old number	page
B37	M66	•999	X99	37166	17
B37	M84	•999	X99	37584	17
B37	P31	•999	X99	37531	22
B37	P32	•999	X99	37532	22
B37	P34	•999	X99	37534	22
B37	P96	•999	X99	37596	22
B37	R28	•999	X99	37528	22
B37	R81	•999	†99	37581†	22
B37	R87	•999	X99	37287	22
B37	R88	•999	X99	37288	22
B37	X21	•003	X99	80721/3dB	25
B37	X21	•006	X99	80721/6dB	25
B37	X21	•010	X99	80721/10dB	25
B37	X21	•020	X99	80721/20dB	25
B37	X30	•999	X99	80530	26
B37	X33	•999	X99	84033	26
B37	X36	•999	X99	80536	26
B37	Z10	•751	X99	35010/75R	25
B37	Z98	•751	X99	35098/75R	25

Note: • plating finish code – see pages 5 and 6 for details.
† denotes fixing hole size code for panel mounted items, see page 5 for details.

Cable	Impedance	Greenpar group
388-388 (Radio Spares)	75	B07
BT500B	75	062
BT502A	75	030
BT502B	75	117
BT503	75	167
BT2001	75	030
BT2002	75	117
BT2003	75	062
BT2003A	75	062
50S141R (Insulated Wire)	50	073
MM10/75 (UKAEA)	75	344
MM11/50 (UKAEA)	50	339
PSF1/2M (BBC)	75	B07
PSF1/3M (BBC)	75	C25
PSF1/4M (BBC)	50	001
RG 8A/U	50	001
RG 9B/U	50	004
RG 11A/U	75	001
RG 13A/U	75	004
RG 55B/U	50	060
RG 58C/U	50	010
RG 59B/U	75	A25
RG 62B/U	93	B25
RG 71B/U	93	D25
RG 122/U	75	B35
RG 140/U	75	A25
RG 141A/U	50	010
RG 142B/U	50	060
RG 174A/U	50	022
RG 178B/U	50	024
RG 179B/U	75	022
RG 180/U	95	A35
RG 187A/U	75	022
RG 188A/U	50	022
RG 195/U	95	A35
RG 196A/U	50	024
RG 210/U	93	B25
RG 213/U	50	001
RG 214/U	50	004

Cable	Impedance	Greenpar group
RG 216/U	75	004
RG 223/U	50	060
RG 303/U	50	009
RG 316/U	50	022
RG 400/U	50	060
RG 402/U	50	073
T3263	50	024
TM3022 (BICC)	75	A52
TM3116 (BICC)	75	028
TM3172 (BICC)	75	B52
TM3173 (BICC)	75	B52
TM3189 (BICC)	75	B52
TM3205 (BICC)	75	B07
TM3231 (BICC)	75	027
TM3250 (BICC)	50	029
TM3289 (BICC)	75	022
TM3304 (BICC)	75	C25
TM3306 (BICC)	50	022
TM3328 (BICC)	50	029
URM 43	50	010
URM 57	75	001
URM 60	75	004
URM 64	75	001
URM 65	75	001
URM 67	50	001
URM 70	75	012
URM 72	50	009
URM 76	50	010
URM 90	75	A25
URM 91	50	004
URM 95	50	022
URM 108	50	009
URM 109	50	022
URM 110	50	024
URM 111	75	022
URM 116	50	022
URM 201	75	B52
URM 202	75	B52
URM 203	75	028
URM 205	75	028
URM 301	50	060
UT141A	50	073

the Greenpar cable group number brings together those connectors with the same cable entry detail. This list covers the more popular types of cable, but if your cable is not shown here, please check with the Sales Office. Understanding the cable group system is fundamental to an appreciation of the range of variants of each connector design.

Greenpar cable group	Impedance	Cables
A25	75	RG 59B/U, RG 140/U, URM 90
A35	95	RG 180/U, RG 195/U
A52	75	TM3022 (BICC)
B07	75	388-388 (Radio Spares), PSF1/2M (BBC), TM3205 (BICC)
B25	93	RG 62B/U, RG 210/U
B35	75	RG 122/U
B52	75	TM3172 (BICC), TM3173 (BICC), TM3189 (BICC)
B52	75	URM 201, URM 202
C25	75	PSF1/3M (BBC), TM3304 (BICC)
D25	93	RG 71B/U
001	50	PSF1/4M (BBC), RG 8A/U, RG 213/U, URM 67
001	75	RG 11A/U, URM 57, URM 64, URM 65
004	50	RG 9B/U, RG 214/U, URM 91
004	75	RG 13A/U, RG 216/U, URM 60
009	50	RG 303/U, URM 72, URM 108
010	50	RG 58C/U, RG 141A/U, URM 43, URM 76
012	75	URM 70
022	50	50H101R (Insulated Wire), RG 174A/U, RG 188A/U, RG 316/U, TM3306 (BICC), URM 95, URM 109, URM 116
022	75	RG 179B/U, RG 187A/U, TM3289 (BICC), URM 111
024	50	RG 178B/U, RG 196A/U, T3263, URM 110
027	75	TM3231 (BICC)
028	75	TM3116 (BICC), URM 203, URM 205
029	50	TM3250 (BICC), TM3328 (BICC)
030	75	BT502A, BT2001
060	50	RG 55B/U, RG 142B/U, RG 223/U, RG 400/U, URM 301
062	75	BT500B, BT2003, BT2003A
073	50	50S141R (Insulated Wire), RG 402/U, UT141A
117	75	BT502B, BT2002
119	75	Amphenol 21-597
167	75	BT503
339	50	MM11/50 (UKAEA)
344	75	MM10/75 (UKAEA)

This list covers the more popular types of cable, but if your cable is not shown here, please check with the Sales Office. Understanding the cable group system is fundamental to an appreciation of the range of variants of each connector design.

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