



## M/A-COM's Expertise spans the spectrum... dc through millimeter wave

At M/A-COM, core technologies include material fabrication and processing, circuit design and high volume production.

Materials expertise includes silicon and gallium arsenide. Circuit design capability encompasses passive transmission line circuits through complex integrated circuits in monolithics and hybrid technologies. The latest high volume production techniques are applied to wafers, chips and integrated circuits. This combined with our extensive packaging experience in ceramics and plastics, provides dramatic cost efficiencies.

You'll find our products in commercial applications like cellular telephones, wireless LANs, advanced automotive electronics, and satellite and navigation systems. You'll find us in defense applications too. like radars, missile systems, EW and surveillance. You'll find M/A-COM wherever RF, microwave or millimeter wave expertise and quality manufacturing is critical.

#### **Semiconductors**

- Diodes
- · Silicon and GaAs Wafers
- Transistors
- MMICIHMIC™IGMIC™

#### **Control Components**

- · PIN Diode/GaAsFET Switches Attenuators Phase Shifters Limiters
- E/M Switches
- · Receiver Protectors

#### Sources

- VCO
- Gunn
- Transceivers
- Transistor
- Synthesizers
- YIG Tuned

#### **Amplifiers**

- Low Noise
- · Small Signal
- · Linearized/Power
- · Gain Blocks

#### **Receiver Components**

- Mixers
- LNAs
- Log IF Amps
- Discriminators
- Detectors
- DLVAs

#### **Antennas**

- Horns
- Slot
- GPS
- CNI
- Feeds
- Spirals
- ECM
- Wireless

#### **Passive Components**

- Isolators
- · Circulators
- Filters
- Wavequide Ferrite
- Couplers
- Dividers
- Transformers
- Attenuators
- Terminations
- · Rotary Joint

#### Integrated Assemblies

· RF, Microwave and Millimeter Wave

#### Cable Assemblies

- · High Performance
- CNI
- EW
- · Delay Lines
- Test/Instrument

#### Connectors

- Standard
- Miniature
- Microminiature
- · Blind Mate
- Surface Mount
- · Millimeter Wave

#### **GaAs Materials**

- Substrates
- Wafers
- Bulk

# **Contents**

#### How to Order

Please specify M/A-COM's part number and description of items. If special features are required, describe completely, and a special part number will be assigned at our plant. Address your order to the factory or nearest M/A-COM field office.

#### Terms

Net 30 days F.O.B. our plant.

### **Specifications**

Specifications may change or products may be discontinued at M/A-COM's discretion without prior notice.

### Warranty

M/A-COM warrants products of its manufacture to be free from defects in material and workmanship under conditions of normal use. If within one year after delivery to the original owner and after prepaid return by the original owner, any M/A-COM product is found to be defective, M/A-COM shall, at its option, repair or replace said defective unit. This warranty does not apply to products which have been disassembled, modified or subjected to conditions exceeding the applicable specifications or ratings. M/A-COM reserves the right to make design changes without notice on any of its products without any obligation to make the same or similar changes to units previously purchased. In no event does M/A-COM assume liability for installation labor or for consequential damages. This warranty is the extent of the obligation or liability assumed by M/A-COM with respect to its products, and no other warranty or guarantee is either expressed or implied.

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#### M/A-COM INTERCONNECT PRODUCTS PIONEERS IN INTERCONNECT TECHNOLOGY FOR OVER 40 YEARS

M/A-COM has been the leading manufacturer of RF and microwave connecters for over four decades. Our commitment to quality is evident in every product and service we provide. Our engineering staff enjoys worldwide recognition in setting the industry standards for RF and microwave coaxial and twinax connecters. We provide innovative technological solutions to our customers' needs with the support of the latest automated design equipment.

M/A-COM offers state-of-the art technology with our broad selection of coaxial and fiber optic cable assemblies, fiber optic connecters, adapters and patch panels that are supplied to markets throughout the United States, Europe and Asia.

## **Capabilities and Facilities**

M/A-COM's vertical integration provides complete in-house control of every operation from design and development to fabrication, assembly and test. This capability enables M/A-COM to produce an extensive range of low-cost, high-quality, high performance products for government and commercial applications. Our facilities house one of the Corporation's Centers of Excellence, the Precious Metal Plating Shop, and a machining center that produces over 20 million precisionturned piece parts a year.

M/A-COM's cable assembly testing capabilities include vibration (sine/random), shock, temperature/altitude, humidity, salt fog, helium & vapor leak and high CW/Peak power. We have the unique capability of testing cable assemblies at full rated power, high temperature and high altitude simultaneously. We also test flexure endurance, abrasion resistance, RF shielding effectiveness and exposure to chemicals/fluids in accordance with the applicable military specifications.

## **Supporting Your Needs**

M/A-COM's commitment to excellence as a manufacturer is reflected in our state-of-theart facilities and highly skilled, specialized workforce. We measure our quality in partsper-million. When you contact M/A-COM, you will find a proficient Sales and Applications Engineering staff eager to support your needs.

M/A-COM's Interconnect products are marketed through a comprehensive network of M/A-COM field offices and representatives. Our authorized distributors inventory millions of dollars worth of products for immediate delivery.

# **Part Number System**

## **Plating Finishes**

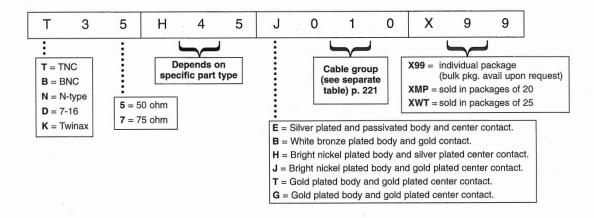
M/A-COM part numbers utilizing a 13 digit configuration offer a variety of plating finishes as designated by the codes listed below.

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

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

#### M/A-COM Part Number Nomenclature

As an example, consider T35 H45 J010 X99:



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

#### **Features**

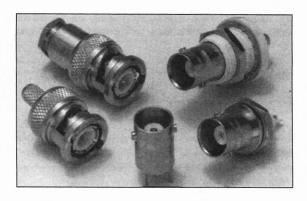
- Fast Connect/Disconnect Facility
- 50 ohm and 75 ohm Compatible Versions
- Choice of Plating Options
- Cable Connecters, PCB, Bulkhead, Panel and Adapters Available
- Available for a Wide Selection of Cables
- Choice of Solder/Clamp and Crimp/Crimp Cable Entry Connecters
- Strain Relief Boots Available For All Crimp Connecters
- Solder Tags Available

BNC connecters have a bayonet lock coupling mechanism to provide a fast connect/disconnect coaxial termination. The range covers cable entry (flexible) and PCB, bulkhead, panel and adapter versions and most are available in 50 ohm or 75 ohm compatible impedance. The most popular cable connecters are those with a solder center contact and clamp outer contact, or crimp center contact and crimp outer contact. Full crimp versions offer reduced production time and fast, consistent, reliable connections at a low installed cost. Other cable connecters are also available such as plugs with a pre-fitted center contact and a crimp outer, offering rapid assembly and ideal suitability for field applications. Standard finish is bright nickel plated body and gold plated center contact. Other finishes are also available.

M/A-COM BNC connecters are manufactured to ensure compatibility with connecters manufactured to the MIL-C-39012 specification.

## The following factors should be considered when selecting a connecter:

Series (Consider App	lication, Compatibility)
Impedance	(50 or 75 ohms)
Style (Plu	g, Jack, Adapteretc.
Finish (Bri	ght Nickel, Goldetc.)
Method of Assembling Conneto Cable (Cr	



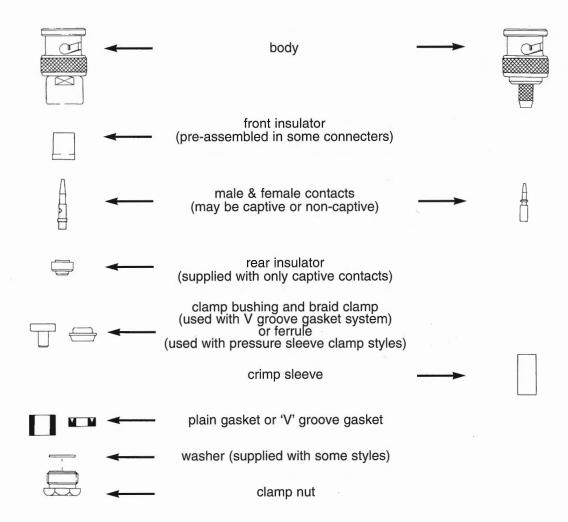
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#### TYPICAL PIECE PARTS IN SOLDER/CLAMP AND CRIMP/CRIMP CONNECTERS

## Solder/clamp connecters

# Solder/crimp and crimp/crimp connecters



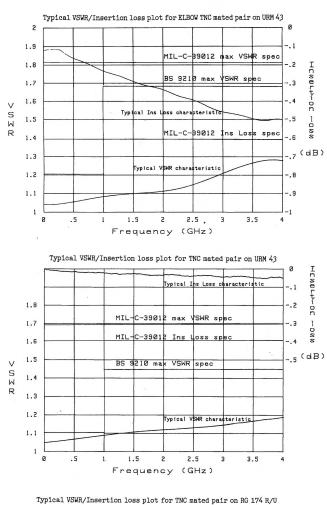
The piece parts indicated above are typical for BNC connecters.

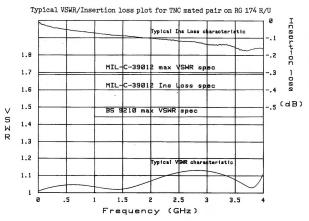
# **BNC Series Specifications**

BNC connecters have been designed to be fully intermatable with MIL-C-39012 connecters. All the information included within this page is typical for the series but will not necessarily apply to every style or version.

Specification	Straight Cable Connecters	Right Angle Cat Connecters and		Tee Adapters and Receptacles
V.S.W.R. at 1 GHz	1.05 max	1.10 max		NA
V.S.W.R. at 4 GHz	1.30 max	1.35 max		NA
Max capacitance	NA	NA		5 pF
Max insertion loss (at 3 GHz)	0.20 dB	0.30 dB		NA
R.F. leakage (between 2 GHz & 3 GHz)	-55dB min -55dB max	NA		NA
Max working voltage d.c. (At sea level)		500V		
(At an altitude of 26 km)		125V		
Max proof voltage d.c. (At sea level)		2 kV		
(At an altitude of 26 km)		500V		
Max proof voltage R.F. (5 MHz at sea level)		1kV rms		
Max currant rating d.c.		1A		
Insulation resistance (min)		5G ohm		
Max contact resistance (Center contact)		1.50m ohm		
(Outer contact)		0.20m ohm		
(Braid to body)		0.10m ohm		
Piece part specification	Base materia	ls	Plating	types
Body parts	Brass		Bright n	ickel over copper
Insulators	P.T.F.E.		NA	
Gaskets	Silicone rubbe	er	NA	
Center contacts	Brass or Beryllium cop	per	1.3-1.6	um gold over coppe

### TYPICAL VSWR AND INSERTION LOSS CHARACTERISTICS





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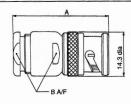
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### STRAIGHT PLUGS

### Solder center contact, clamp outer



Impedance 50 ohm	Cable group  1	Part Number ②	Α	В	
50 ohm				_	
	009	B35 A70 • 009 X99	28.5	11.1	Captive contact, pressure sleeve cable clamp
50 ohm	010	B35 A06 • 010 X99	28.5	11.1	UG-style item, non-captive contact, V groove gasket
50 ohm	010	B35 A07 • 010 X99	28.5	11.1	Captive contact, V groove gasket braid clamp
50 ohm	010	B35 A18 • 010 X99	27.8	11.1	UG-style item, non-captive contact, V groove gasket
50 ohm	010	B35 A70 • 010 X99	28.5	11.1	Captive contact, pressure sleeve cable clamp
50 ohm	022	B35 A70 • 022 X99	28.5	11.1	As above
50 ohm	027	B35 A71 • 027 X99	30.4	12.7	As above
50 ohm	060	B35 A70 • 060 X99	28.5	11.1	As above
75 ohm	007	B37 A71 • 007 X99	30.4	12.7	As above
75 ohm	012	B37 A70 • 012 X99	28.5	11.1	As above
75 ohm	022	B37 A70 • 022 X99	28.5	11.1	As above
75 ohm	025	B37 A07 • 025 X99	28.5	11.1	Captive contact, V groove gasket, braid clamp
75 ohm	025	B37 A47 • 025 X99	28.0	11.1	UG style item non captive contact, V groove gasket
75 ohm	025	B37 A70 • 025 X99	28.0	11.1	Captive contact, pressure sleeve cable clamp
75 ohm	027	B37 A71 • 027 X99	30.4	12.7	As above
75 ohm	028	B37 A71 • 028 X99	30.4	12.7	As above
75 ohm	030	B37 A70 • 030 X99	28.5	11.1	As above
75 ohm	052	B37 A70 • 052 X99	28.5	11.1	As above
75 ohm	062	B37 A70 • 062 X99	28.5	11.1	As above
75 ohm	079	B37 A71 • 079 X99	30.4	12.7	As above
75 ohm	117	B37 A70 • 117 X99	28.5	11.1	As above
75 ohm	119	B37 A70 • 119 X99	28.5	11.1	As above
	50 ohm 50 ohm 50 ohm 50 ohm 50 ohm 75 ohm	50 ohm 010 50 ohm 010 50 ohm 022 50 ohm 027 50 ohm 060 75 ohm 012 75 ohm 012 75 ohm 025 75 ohm 025 75 ohm 025 75 ohm 025 75 ohm 027 75 ohm 028 75 ohm 030 75 ohm 052 75 ohm 052 75 ohm 079 75 ohm 079 75 ohm 079	50 ohm 010 B35 A18 • 010 X99  50 ohm 010 B35 A70 • 010 X99  50 ohm 022 B35 A70 • 022 X99  50 ohm 027 B35 A71 • 027 X99  50 ohm 060 B35 A70 • 060 X99  75 ohm 012 B37 A71 • 007 X99  75 ohm 022 B37 A70 • 012 X99  75 ohm 025 B37 A70 • 025 X99  75 ohm 025 B37 A70 • 025 X99  75 ohm 026 B37 A70 • 027 X99  75 ohm 027 B37 A71 • 027 X99  75 ohm 028 B37 A70 • 028 X99  75 ohm 030 B37 A71 • 028 X99  75 ohm 052 B37 A70 • 030 X99  75 ohm 052 B37 A70 • 052 X99  75 ohm 052 B37 A70 • 052 X99  75 ohm 052 B37 A70 • 052 X99  75 ohm 062 B37 A70 • 062 X99  75 ohm 079 B37 A71 • 079 X99  75 ohm 079 B37 A71 • 079 X99  75 ohm 079 B37 A71 • 079 X99	50 ohm       010       B35 A18 • 010 X99       27.8         50 ohm       010       B35 A70 • 010 X99       28.5         50 ohm       022       B35 A70 • 022 X99       28.5         50 ohm       027       B35 A71 • 027 X99       30.4         50 ohm       060       B35 A70 • 060 X99       28.5         75 ohm       007       B37 A71 • 007 X99       30.4         75 ohm       012       B37 A70 • 012 X99       28.5         75 ohm       022       B37 A70 • 022 X99       28.5         75 ohm       025       B37 A70 • 025 X99       28.0         75 ohm       025       B37 A70 • 025 X99       28.0         75 ohm       025       B37 A71 • 027 X99       30.4         75 ohm       028       B37 A71 • 028 X99       30.4         75 ohm       030       B37 A71 • 028 X99       30.4         75 ohm       052       B37 A70 • 030 X99       28.5         75 ohm       052       B37 A70 • 052 X99       28.5         75 ohm       062       B37 A70 • 062 X99       28.5         75 ohm       079       B37 A71 • 079 X99       30.4         75 ohm       079       B37 A70 • 117 X99       28.5	50 ohm       010       B35 A18 • 010 X99       27.8       11.1         50 ohm       010       B35 A70 • 010 X99       28.5       11.1         50 ohm       022       B35 A70 • 022 X99       28.5       11.1         50 ohm       027       B35 A71 • 027 X99       30.4       12.7         50 ohm       060       B35 A70 • 060 X99       28.5       11.1         75 ohm       007       B37 A71 • 007 X99       30.4       12.7         75 ohm       012       B37 A70 • 012 X99       28.5       11.1         75 ohm       022       B37 A70 • 025 X99       28.5       11.1         75 ohm       025       B37 A70 • 025 X99       28.5       11.1         75 ohm       025       B37 A70 • 025 X99       28.0       11.1         75 ohm       025       B37 A71 • 025 X99       28.0       11.1         75 ohm       028       B37 A71 • 025 X99       30.4       12.7         75 ohm       030       B37 A71 • 028 X99       30.4       12.7         75 ohm       052       B37 A70 • 030 X99       28.5       11.1         75 ohm       062       B37 A70 • 062 X99       28.5       11.1         75 ohm <t< td=""></t<>

 $<sup>\</sup>ensuremath{\textcircled{1}}$  For cable group to cable type cross reference refer to page 200.

All measurements are in millimeters unless otherwise specified.

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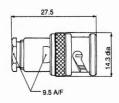
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② Replace the • in the part number with required plating code, see page 3 for details.

Please contact the Sales Office for any uncataloged requirements.

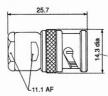
#### STRAIGHT PLUGS

### Solder center contact, clamp outer



Impedance	Cable group ①	Part Number ②	
50 ohm	010	B35 A01 • 010 X99	Captive contact, pressure sleeve cable clamp
50 ohm	022	B35 A01 • 022 X99	As above
50 ohm	024	B35 A01 • 024 X99	As above
50 ohm	029	B35 A01 • 029 X99	As above
50 ohm	030	B35 A01 • 030 X99	As above
50 ohm	073	B35 A01 • 073 X99	As above (for semi-rigid cable)
50 ohm	010	B35 A11 • 010 X99	UG-style item, non-captive contact
75 ohm	025	B37 A48 • 025 X99	As above

### Solder center contact, clamp outer



Impedance	Cable group ①	Part Number ②	
75 ohm	025	B37 A53 • 025 X99	3 part rapid assembly with tapered ferrule

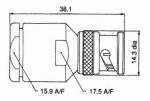
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① For cable group to cable type cross reference refer to page 200.

② Replace the • in the part number with required plating code, see page 3 for details. Please contact the Sales Office for any uncataloged requirements.

#### STRAIGHT PLUGS

Solder center contact, clamp outer



Cable group ① **Impedance** 

Part Number @ 001 B35 A03 • 001 X99

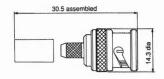
Captive contact, pressure sleeve cable clamp

50 ohm 50 ohm 004

B35 A03 • 004 X99

As above

### Crimp center contact, crimp outer



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

- ① For cable group to cable type cross reference refer to page 200.
- 2 Replace the in the part number with required plating code, see page 3 for details.
- ③ Crimp tool 30039 requires separate dies, for all details on tooling, see page 194.
- 4 Other colors available. Please contact the Sales Office.

Please contact the Sales Office for any uncataloged requirements.

All measurements are in millimeters unless otherwise specified.

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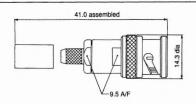
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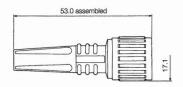
#### STRAIGHT PLUGS

### BT crimp, crimp center contact crimp outer



Impedance	Cable group ${ ext{ }}{ ext{ }}{ ext{ }}{ ext{ }}$	Part Number ②		Crimp tool ${\mathfrak 3}$
75 ohm	030	B37 A91 • 030 X99	Crimp and clamp together design	30039
75 ohm	062	B37 A91 • 062 X99	As above	30039
75 ohm	117	B37 A91 • 117 X99	As above	30039

# Insulated plug, crimp center contact crimp outer



Impedance	Cable group ①	Part Number ②	Color 4	Crimp tool 3
50 ohm	B10	B35 A04 • B10 X99	Grey	30040 or 30039
75 ohm	B25	B37 A04 • B25 X99	Black	30040 or 30039

- ① For cable group to cable type cross reference refer to page 200.
- ② Replace the in the part number with required plating code, see page 3 for details.
- 3 Crimp tool 30039 requires separate dies, for all details on tooling, see page 40.
- Other colors available. Please contact the Sales Office.

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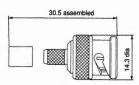
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#### STRAIGHT PLUGS

Pre-fitted center contact, crimp outer



**Impedance** 

Cable group ①

Part Number 2

Crimp tool 3

75 ohm

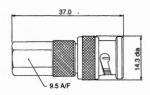
A25

B37 A74 • A25 X99

Fast assembly, two piece design

30040

### Free Plug



**Impedance** Cable group 50 ohm

010

**Part Number** 

B35 A98 H010 X99

75 ohm A25 B37 A98 HA25 X99

All measurements are in millimeters unless otherwise specified.

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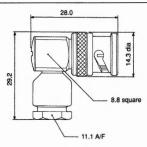
① For cable group to cable type cross reference refer to page 200.

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

③ Crimp tool 30039 requires separate dies, for all details on tooling, see page 194. Please contact the Sales Office for any uncataloged requirements.

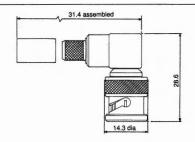
### **ELBOW PLUGS**

### Solder center contact, clamp outer



Impedance	Cable group ${\mathbb O}$	Part Number ②	
50 ohm	010	B35 B02 • 010 X99	Captive contact, pressure sleeve cable clamp
50 ohm	010	B35 B12 • 010 X99	Captive contact, V groove gasket, braid clamp
50 ohm	022	B35 B02 • 022 X99	Captive contact, pressure sleeve cable clamp
75 ohm	012	B37 B02 • 012 X99	Captive contact, pressure sleeve cable clamp
75 ohm	022	B37 B02 • 022 X99	As above
75 ohm	025	B37 B02 • 025 X99	As above
75 ohm	025	B37 B12 • 025 X99	Captive contact, V groove gasket, braid clamp
75 ohm	052	B37 B02 • 052 X99	Captive contact, pressure sleeve cable clamp
75 ohm	062	B37 B02 • 062 X99	As above

# Crimp center contact, crimp outer



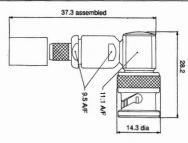
Impedance	Cable group ①	Part Number ②	Crimp tool ③
50 ohm	010	B35 B28 • 010 X99	30040 or 30039
50 ohm	022	B35 B28 • 022 X99	30040 or 30039
50 ohm	060	B35 B28 • 060 X99	30040 or 30039
75 ohm	012	B37 B28 • 012 X99	30040 or 30039
75 ohm	022	B37 B28 • 022 X99	30040 or 30039
75 ohm	A25	B37 B28 • A25 X99	30040 or 30039
75 ohm	B25	B37 B28 • B25 X99	30040 or 30039

- ① For cable group to cable type cross reference refer to page 200.
- ② Replace the in the part number with required plating code, see page 3 for details.
- ③ Crimp tool 30039 requires separate dies, for all details on tooling, see page 194. Please contact the Sales Office for any uncataloged requirements.

All measurements are in millimeters unless otherwise specified.

#### **ELBOW PLUGS**

BT crimp, solder center contact, crimp outer



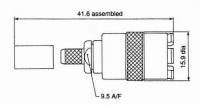
 Impedance
 Cable group ①
 Part Number ②
 Crimp tool ③

 75 ohm
 062
 B37 B92 • 062 X99
 Solder, crimp and clamp together design
 30039

 75 ohm
 117
 B37 B92 • 117 X99
 As above
 30039

#### COLLET LOCK PLUG

Collet lock, crimp center contact, crimp outer



M/A-COM collet lock plugs mate with standard BNC sockets, but utilize 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 outer co-axial path, use of these connecters provides the opportunity to upgrade the overall screening performance of systems using BNC sockets, with consequent benefits in respect of reduced r.f. leakage and reduced susceptibility 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 connecters use crimped terminations for inner conductor and screen.

Impedance	Cable group ①	Part Number ②	Crimp tool ③
50 ohm	339	B35 A26 • 339 X99	30040 or 30039
50 ohm	344	B35 A26 • 344 X99	30040 or 30039
75 ohm	062	B37 A26 • 062 X99	30039

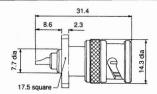
- ① For cable group to cable type cross reference refer to page 200.
- ② Replace the in the part number with required plating code, see page 3 for details.
- ③ Crimp tool 30039 requires separate dies, for all details on tooling, see page 194. Please contact the Sales Office for any uncataloged requirements.

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#### PANEL PLUG

### Straight



mounting detail

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

#### **Impedance**

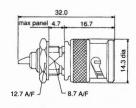
50 ohm 75 ohm

#### Part Number ②

B35 C86 • 999 †99 B37 C86 • 999 †99

#### **BULKHEAD PLUG**

#### **Front Mount**



mounting detail



#### **Impedance**

50 ohm 75 ohm

#### Part Number ②

B35 D76 • 999 X99 B37 D76 • 999 X99

- ① For cable group to cable type cross reference refer to page 200.
- ② Replace the in the part number with required plating code, see page 3 for details.
- † Replace the † in the part number with the letter corresponding to fixing hole sizes.

Please contact the Sales Office for any uncataloged requirements.

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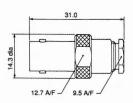
Tel. +85 2 2111 8088

Fax +85 2 2111 8087

Europe: Tel. +44 (1344) 869 595

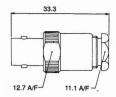
#### STRAIGHT JACKS

# Solder center contact, clamp outer



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

# Solder center contact, clamp outer



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

All measurements are in millimeters unless otherwise specified.

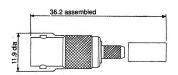
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 $<sup>\</sup>ensuremath{\textcircled{1}}$  For cable group to cable type cross reference refer to page 200.

② Replace the • in the part number with required plating code, see page 3 for details. Please contact the Sales Office for any uncataloged requirements.

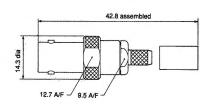
#### STRAIGHT JACKS

### Crimp center contact, crimp outer



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

### Crimp center contact, crimp outer



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

- ① For cable group to cable type cross reference refer to page 200.
- ② Replace the in the part number with required plating code, see page 3 for details.
- ③ Crimp tool 30039 requires separate dies, for all details on tooling, see page 194.
- † Replace the † in the part number with the letter corresponding to fixing hole sizes. Please contact the Sales Office for any uncataloged requirements.

All measurements are in millimeters unless otherwise specified.

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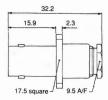
Fax (800) 618-8883

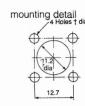
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Europe: Tel. +44 (1344) 869 595

#### **PANEL JACKS**

## Solder center contact, clamp outer

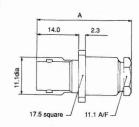




fixing hole sizes (see part number) M2.5 x 0.45 — 6H=D 3.56 UNF=E 4.40 UNC=F 6 BA=G 3.0mm=H 2.8mm=K

Impedance	Cable group ①	Part Number ②	
50 ohm	022	B35 G04 • 022 †99	Captive contact, pressure sleeve cable clamp
50 ohm	024	B35 G04 • 024 †99	As above
50 ohm	073	B35 G04 • 073 †99	As above (for semi-rigid cable)

## Solder center contact, clamp outer





mounting detail

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

Impedance	Cable group ①	Part Number ②	Dim A	
50 ohm	010	B35 G06 • 010 †99	31.0 mm	UG-style item, non-captive V groove gasket
50 ohm	010	B35 G24 • 010 †99	31.0 mm	As above
50 ohm	010	B35 G57 • 010 †99	31.0 mm	Captive contact, pressure sleeve cable clamp
50 ohm	022	B35 G57 • 022 †99	31.0 mm	As above
50 ohm	060	B35 G57 • 060 †99	31.0 mm	As above
75 ohm	012	B37 G57 • 012 †99	31.0 mm	As above
75 ohm	022	B37 G57 • 022 †99	31.0 mm	As above
75 ohm	025	B37 G57 • 025 †99	31.0 mm	As above
75 ohm	052	B37 G57 • 052 †99	31.0 mm	As above
75 ohm	119	B37 G57 • 119 †99	31.0 mm	As above

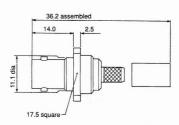
- ① For cable group to cable type cross reference refer to page 200.
- ② Replace the in the part number with required plating code, see page 3 for details.
- 3 Crimp tool 30039 requires separate dies, for all details on tooling, see page 194.
- † Replace the † in the part number with the letter corresponding to fixing hole sizes. Please contact the Sales Office for any uncataloged requirements.

All measurements are in millimeters unless otherwise specified.

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### PANEL JACKS

### Crimp center contact, crimp outer



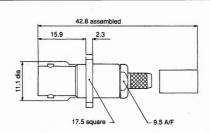


fixing hole sizes (see part number) 2.5 x 0.45 — 6H=D 3.56 UNF=E 4.40 UNC=F .0mm=H .8mm=K

	M2.5 x 0.45 -
4 Holes † dia	3.56 4.40
0	3.
11.2	3.
⊕ dia ⊕	
12.7	

Impedance	Cable group ①	Part Number ②	Crimp tool ③
50 ohm	010	B35 G44 • 010 †99	30040 or 30039
50 ohm	022	B35 G44 • 022 †99	30040 or 30039
50 ohm	060	B35 G44 • 060 †99	30040 or 30039
75 ohm	A25	B37 G44 • A25 †99	30040 or 30039
75 ohm	B25	B37 G44 • B25 †99	30040 or 30039

### Crimp center contact, crimp outer



#### mounting detail

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

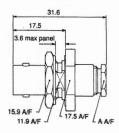
Impedance	Cable group ①	Part Number ②	Crimp tool ③
75 ohm	062	B37 G94 • 062 †99	30039
75 ohm	117	B37 G94 • 117 †99	30039

- ① For cable group to cable type cross reference refer to page 200.
- 2 Replace the in the part number with required plating code, see page 3 for details.
- 3 Crimp tool 30039 requires separate dies, for all details on tooling, see page 194.
- † Replace the † in the part number with the letter corresponding to fixing hole sizes. Please contact the Sales Office for any uncataloged requirements.

All measurements are in millimeters unless otherwise specified.

#### **BULKHEAD JACKS**

## Solder center contact, clamp outer



mounting detail

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

All measurements are in millimeters unless otherwise specified.

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 $<sup>\</sup>ensuremath{\textcircled{1}}$  For cable group to cable type cross reference refer to page 200.

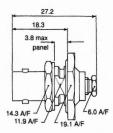
② Replace the • in the part number with required plating code, see page 3 for details.

③ Crimp tool 30039 requires separate dies, for all details on tooling, see page 194. Please contact the Sales Office for any uncataloged requirements.

#### **BULKHEAD JACKS**

### Solder center contact, clamp outer

(rear mount for miniature cables)



mounting detail



**Impedance** 

Cable group ①

Part Number ②

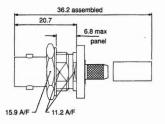
50 ohm 50 ohm 022 024

B35 H03 • 022 X99 B35 H03 • 024 X99 Captive contact, pressure sleeve cable clamp

As above

## Crimp center contact, crimp outer

(rear mount)



mounting detail



**Impedance** 75 ohm

Cable group ① **B25** 

Part Number ②

B37 H79 • B25 X99

Captive contact

Crimp tool 3

30040 or 30039

① For cable group to cable type cross reference refer to page 200.

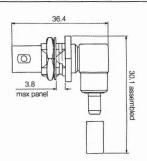
② Replace the • in the part number with required plating code, see page 3 for details.

Replace the † in the part number with the letter corresponding to fixing hole sizes. Please contact the Sales Office for any uncataloged requirements.

All measurements are in millimeters unless otherwise specified.

#### **BULKHEAD ELBOW JACK**

Crimp center contact, crimp outer (rear mount)



mounting detail



Impedance 50 ohm Cable group ①

Part Number ②

B10

B35 H14 • B10 X99

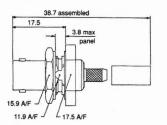
Captive contact

Crimp tool 3

30040 or 30039

#### **BULKHEAD JACKS**

Crimp center contact, crimp outer (rear mount)



mounting detail



Impedance	Cable group ①	Part Number ②	Crimp tool ③
50 ohm	010	B35 H45 • 010 X99	30040 or 30039
50 ohm	022	B35 H45 • 022 X99	30040 or 30039
50 ohm	060	B35 H45 • 060 X99	30040 or 30039
75 ohm	012	B37 H45 • 012 X99	30040 or 30039
75 ohm	022	B37 H45 • 022 X99	30040 or 30039
75 ohm	A25	B37 H45 • A25 X99	30040 or 30039
75 ohm	B25	B37 H45 • B25 X99	30040 or 30039

- $\ensuremath{\textcircled{1}}$  For cable group to cable type cross reference refer to page 200.
- ② Replace the in the part number with required plating code, see page 3 for details.
- ③ Crimp tool 30039 requires separate dies, for all details on tooling, see page 194. Please contact the Sales Office for any uncataloged requirements.

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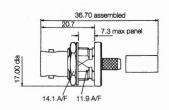
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#### **BULKHEAD JACKS**

Insulated crimp center contact, crimp outer (rear mount)

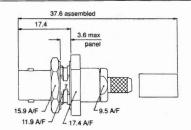


mounting detail



Impedance	Cable group ①	Part Number ②	Crimp tool ③
50 ohm	010	B35 H51 • B10 X99	30040 or 30039
50 ohm	022	B35 H51 • 022 X99	30040 or 30039
75 ohm	A25	B37 H51 • A25 X99	30040 or 30039
75 ohm	B25	B37 H51 • A25 X99	30040 or 30039

Crimp center contact, crimp outer (rear mount)



mounting detail



Impedance Cable group ①		Part Number ②	Crimp tool ③		
75 ohm	062	B37 H95 • 062 X99	30039		
75 ohm	117	B37 H95 • 117 X99	30039		

- ① For cable group to cable type cross reference refer to page 200.
- ② Replace the in the part number with required plating code, see page 3 for details.
- ③ Crimp tool 30039 requires separate dies, for all details on tooling, see page 194. Please contact the Sales Office for any uncataloged requirements.

All measurements are in millimeters unless otherwise specified.

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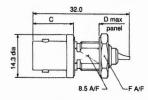
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#### **BULKHEAD SOCKETS**

### Panel sealed, straight (front mount)

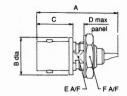


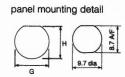
panel mounting detail



Impedance	Part Number ①	C	D	F
50 ohm	B35 M08 • 999 X99	13.8	8.2	14.3
50 ohm	B35 M41 • 999 X99	15.1	6.8	12.7
75 ohm	B37 M08 • 999 X99	13.8	8.2	14.3

## Straight (front mount)





style 1

style 2

insulating bushes (optional)

can only be used with style 1 versions

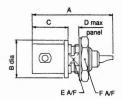
Impedance	Part Number ①	Style	Below	Α	В	C	D	(D)	Е	F	G	Н
50 ohm	B35 M13 • 999 X99	1	1	32.0	12.5	12.0	9.9	9.1	8.7	12.7	9.7	8.9
50 ohm	B35 M26 • 999 X99	1	1&2	27.0	12.5	12.0	5.9	5.1	8.7	12.7	9.7	8.9
50 ohm	B35 M27 • 999 X99	1		27.0	12.5	12.0	3.8	3.0	8.7	12.7	9.7	8.9
50 ohm	B35 M29 • 999 X99	1	3	27.0	12.5	12.0	3.8		10.1	12.7	11.2	10.4
50 ohm	B35 M63 • 999 X99	2		27.0	12.5	12.0	3.8	3.0	8.5	12.7	9.7	8.7
50 ohm	B35 M84 • 999 X99	1	2	27.0	15.6	12.0	3.8	3.0	11.9	14.3	12.9	12.0
75 ohm	B37 M13 • 999 X99	1	1	32.0	12.5	12.0	9.9	9.1	8.7	12.7	9.7	8.9
75 ohm	B37 M26 • 999 X99	1	1&2	27.0	12.5	12.0	5.9	5.1	8.7	12.7	9.7	8.9
75 ohm	B37 M27 • 999 X99	1		27.0	12.5	12.0	3.8	3.0	8.7	12.7	9.7	8.9
75 ohm	B37 M29 • 999 X99	1	3	27 0	12.5	12.0	3.8		10.2	12.7	11.2	10.4
75 ohm	B37 M63 • 999 X99	2		27 0	12.5	12.0	3.8	3.0	8.5	12.7	9.7	8.7
75 ohm	B37 M84 • 999 X99	1	2	27.0	15.8	12.0	3.8	3.0	11.9	14.3	12.9	12.0

See notes on following page

All measurements are in millimeters unless otherwise specified.

#### BULKHEAD SOCKETS

### Straight (front mount)



#### panel mounting detail



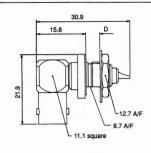
insulating bushes (optional)



Impedance	Part Number ①	See Notes Below	Α	В	C	D	(D)	E	F
50 ohm	B35 M43 • 999 X	99 1	32.0	12.5	12.0	9.4	8.6	8.7	12.7
50 ohm	B35 M66 • 999 X	99	27.0	12.5	12.0	3.2	2.5	8.7	12.7
75 ohm	B37 M66 • 999 X	99	27.0	12.5	12.0	3.2	2.5	8.7	12.7

#### **ELBOW SOCKETS**

#### **Elbow**



mounting detail



insulating bushes (optional)



Impedance	Part number ①	D	(D)
50 ohm	B35 M09 • 999 X99	5.3	4.5
75 ohm	B37 M09 • 999 X99	5.3	4.5

See the notes on page == for availability of insulating bushes and solder tags.

See notes for explanation of dimensions D, (D) and ordering codes.

#### Notes:

Insulating bushes and solder tags are available for the items indicated 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 in their place Note 1 indicates a product which can take a thicker bush (see page 198).

- -001 X99=with solder tag only.
- -002 X99=with solder tag and insulating bushes (as shown above and on previous page).
- -003 X99=with insulating bushes only (as shown above and on previous page).
- 1 -004 X99=with solder tag and alternative insulating bushes (see page 198).
- 1 -005 X99=with alternative insulating bushes only (see page 198).
- 2 These items have two flats 4 @ 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 X99' in the part number.
- ① Replace the in the part number with required plating code, see page 3 for details.

Please contact the Sales Office for any uncataloged requirements.

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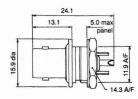
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#### **INSULATED BULKHEAD SOCKETS**

### Straight, insulated



mounting detail



**Impedance** 

Part Number ①

50 ohm

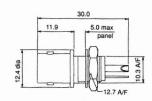
B35 M49 • 999 X99

75 ohm

B37 M49 • 999 X99

Separate bushes are not required. Connecter features integral insulation of the metal mounting thread and nut.

### Straight, insulated



mounting detail



**Impedance** 

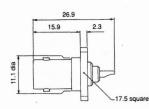
Part Number ①

50 ohm

B35 M46 • 999 X99

Separate bushes are not required. Connecter features plastic body construction for panel insulation.

### Straight



mounting detail



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

2.8mm=K

**Impedance** 

Part Number ①

50 ohm

B35 K07 • 999 †99

Y = 11.2 for rear mounting

75 ohm

B37 K07 • 999 †99

Y = 8.0 for front mounting

- ① Replace the in the part number with required plating code, see page 3 for details.
- † Replace the † in the part number with the letter corresponding to fixing hole sizes. Please contact the Sales Office for any uncataloged requirements.

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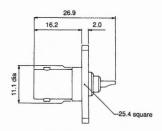
Tel. (800) 366-2266 Fax (800) 618-8883 Asia/Pacific:

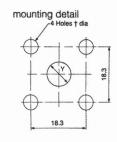
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#### STRAIGHT PANEL SOCKET

### Straight





fixing hole sizes (see part number) 3,56 UNF = E 4.40 UNC = F 3.2mm = C 2.8mm = K

**Impedance** 

Part Number ①

50 ohm

B35 K83 • 999 †99

Y = 11.2 for rear mounting

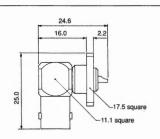
75 ohm

B37 K83 • 999 †99

Y = 8.0 for front mounting

#### **ELBOW PANEL SOCKET**

#### **Elbow**



mounting detail



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

**Impedance** 

50 ohm

Part Number ①

B35 K14 • 999 †99

75 ohm

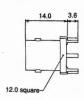
B37 K14 • 999 †99

- ① Replace the in the part number with required plating code, see page 3 for details.
- † Replace the † in the part number with the letter corresponding to fixing hole sizes. contact the Sales Office for any uncataloged requirements.

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### P.C.B. SOCKETS

## Vertical mounting, metal body





Impedance

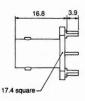
50 ohm

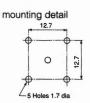
Part Number ①

B35 N14 • 999 X99

Stepped leg version to prevent flux build up

## Vertical mounting, metal body





Impedance

Part Number ①

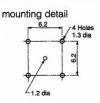
50 ohm

B35 N57 • 999 X99

Stepped leg version to prevent flux build up

## Vertical mounting, metal body





**Impedance** 

Part Number ①

50 ohm

B35 N61 • 999 X99

 $\odot$  Replace the  $\bullet$  in the part number with required plating code, see page 3 for details. Please contact the Sales Office for any uncataloged requirements.

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### P.C.B. SOCKETS

### Vertical mounting, metal body





**Impedance** 

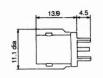
Part Number ①

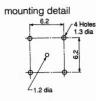
50 ohm

B35 N62 • 999 X99

Stepped leg version to prevent flux build up

# Vertical mounting, metal body





**Impedance** 

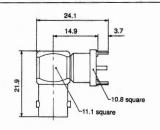
Part Number ①

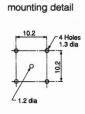
50 ohm

B35 N63 • 999 X99

#### **ELBOW P.C.B. SOCKETS**

### Elbow, metal body





**Impedance** 

Part Number ①

50 ohm

B35 N64 • 999 X99

Stepped leg version to prevent flux build up

① Replace the • in the part number with required plating code, see page 3 for details. Please contact the Sales Office for any uncataloged requirements.

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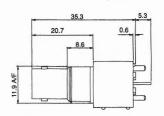
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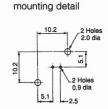
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#### **MOLDED P.C.B. SOCKETS**

#### **Vertical mounting**







**Impedance** 

50 ohm

50 ohm 50 ohm

50 ohm

50 ohm

Part Number ①

B35 N83 • 999 099 B35 N83 • 999 999

B35 N83 • 909 099

B35 N83 • 909 999

B35 N98 • 999 X99

Black molded body, with mounting pins

White molded body, with mounting pins Black molded body, without pins, with holes

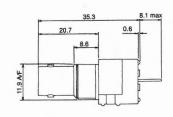
for self tap screws

White molded body, without pins, with holes for

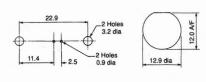
self tap screws

Shielded body with mounting pins

### Vertical with mounting flange



mounting detail



**Impedance** 

50 ohm

Part Number ①

B35 N95 • 909 099

Black molded body, without pins

① Replace the • in the part number with required plating code, see page 3 for details. Please contact the Sales Office for any uncataloged requirements.

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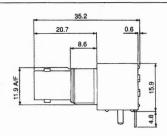
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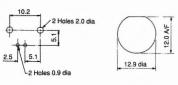
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### MOLDED ELBOW P.C.B. SOCKETS

#### **Elbow**



#### mounting detail



#### **Impedance**

# 50 ohm



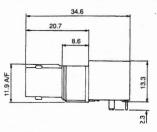
#### Part Number ①

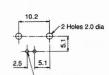
B35 N82 • 999 099	Black molded body,	with mounting pins
B35 N82 • 999 999	White molded body,	with mounting pins

Shielded body with mounting pins

## mounting detail









#### **Impedance**

50	ohm
50	ohm
50	ohm

50 ohm

#### Part Number ①

B35	N88	•	999	099	
B35	N88	•	999	999	
	1100	_	000	000	

B35 N88 • 909 099

Black molded body, with mounting pins White molded body, with mounting pins

Black molded body, without pins, with holes for

self tap screws

B35 N88 • 909 999

White molded body, without pins, with holes for self tap screws

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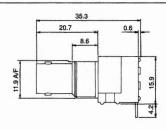
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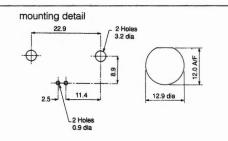
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① Replace the • in the part number with required plating code, see page 3 for details. Please contact the Sales Office for any uncataloged requirements.

### **MOLDED ELBOW P.C.B. SOCKETS**

## Elbow, with mounting flange





**Impedance** 

50 ohm

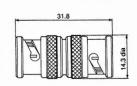
Part Number ①

B35 N94 • 909 099

Black molded body, without pins

#### **ADAPTERS**

## Straight adapter, plug to plug

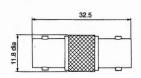


**Impedance** 

50 ohm 75 ohm Part Number ①

B35 P32 • 999 X99 B37 P32 • 999 X99

## Straight adapter, jack to jack



**Impedance** 

50 ohm 75 ohm Part Number ①

B35 P34 • 999 X99 B37 P34 • 999 X99

① Replace the • in the part number with required plating code, see page 3 for details. Please contact the Sales Office for any uncataloged requirements.

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#### M/A-COM, Inc.

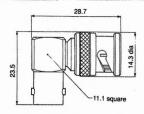
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#### **ADAPTERS**

### Elbow adapter, plug to jack



**Impedance** 

50 ohm

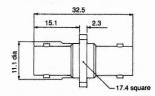
75 ohm

Part Number ①

B35 P28 • 999 X99

B37 P28 • 999 X99

### Panel adapter, jack to jack



mounting detail

(see part number) 3-56 UNF =28 E 4-40 UNC = 28 F Nº 6 BA = G 3.0mm = H2.8mm = K

fixing hole sizes

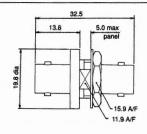
**Impedance** 

50 ohm 75 ohm Part Number ①

B35 R81 • 999 †99

B37 R81 • 999 †99

## Bulkhead adapter, jack to jack





**Impedance** 

50 ohm

75 ohm

Part Number ①

B35 R88 • 999 X99

B37 R88 • 999 X99

- ① Replace the in the part number with required plating code, see page 3 for details.
- † Replace the † in the part number with the letter corresponding to fixing hole sizes. Please contact the Sales Office for any uncataloged requirements.

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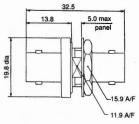
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### **ADAPTERS**

Bulkhead adapter, jack to jack (panel sealed)



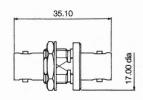


**Impedance** 

50 ohm 75 ohm Part Number ①

B35 R87 • 999 X99 B37 R87 • 999 X99

Bulkhead adapter, jack to jack (insulated)



mounting detail



**Impedance** 

50 ohm 75 ohm Part Number ①

B35 R50 • 999 X99 B37 R50 • 999 X99

① Replace the • in the part number with required plating code, see page 3 for details. Please contact the Sales Office for any uncataloged requirements.

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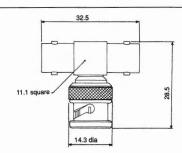
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#### **ADAPTERS**

Tee adapter, one plug, two jacks



**Impedance** 

Part Number ①

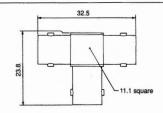
50 ohm

B35 P31 • 999 X99

75 ohm

B37 P31 • 999 X99

Tee adapter, three jacks



**Impedance** 

Part Number ①

50 ohm

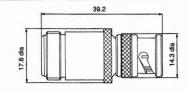
B35 P96 • 999 X99

75 ohm

B37 P96 • 999 X99

#### INTER SERIES ADAPTERS

### Straight BNC plug to N jack



**Impedance** 

Part Number ①

50 ohm

A55 P04 • 999 X99

Brass body

① Replace the • in the part number with required plating code, see page 3 for details. Please contact the Sales Office for any uncataloged requirements.

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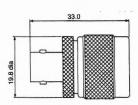
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#### INTER SERIES ADAPTERS

#### Straight BNC jack to N plug



**Impedance** 

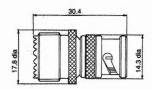
Part Number ①

50 ohm

A55 P28 • 999 X99

Brass body

### Straight BNC plug to UHF jack



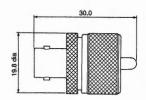
**Impedance** 

Part Number ①

50 ohm

A55 P08 • 999 X99

### Straight BNC jack to UHF plug



**Impedance** 

Part Number ①

50 ohm

A55 P07 • 999 X99

① Replace the • in the part number with required plating code, see page 3 for details. Please contact the Sales Office for any uncataloged requirements.

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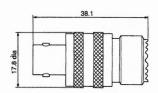
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#### INTER SERIES ADAPTERS

### Straight BNC plug to UHF jack



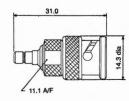
**Impedance** 

Part Number ①

50 ohm

A55 P31 • 999 X99

### Straight BNC plug to SMB jack



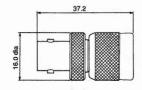
**Impedance** 

Part Number ①

50 ohm

A55 P36 • 999 X99

### Straight BNC jack to TNC plug



**Impedance** 

Part Number ①

50 ohm

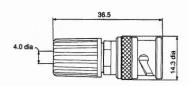
A55 P38 • 999 X99

 $<sup>\ \</sup>textcircled{1}$  Replace the  $\bullet$  in the part number with required plating code, see page 3 for details. Please contact the Sales Office for any uncataloged requirements.

All measurements are in millimeters unless otherwise specified.

#### BINDING POST ADAPTERS

#### Plug to 1 x post



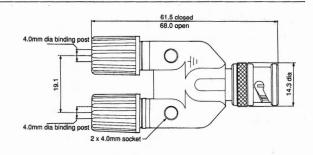
**Impedance** 

Part Number ①

50 ohm

B35 Z11 • 999 X99

### Plug to 2 x posts



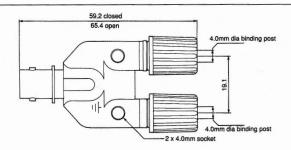
**Impedance** 

Part Number ①

50 ohm

B35 X60 • 999 X99

### Jack to 2 x posts



**Impedance** 

Part Number ①

50 ohm

B35 X67 • 999 X99

① Replace the • in the part number with required plating code, see page 3 for details. Please contact the Sales Office for any uncataloged requirements.

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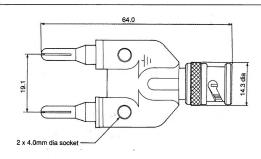
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#### **BINDING POST ADAPTERS**

#### Jack to 2 x 4mm plugs



**Impedance** 

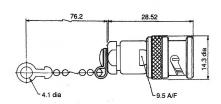
Part Number ①

50 ohm

B35 X68 • 999 X99

#### RESISTER PLUGS

#### With chain (1 watt)



**Impedance** 

Part Number ①

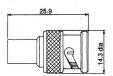
50 ohm 75 ohm B35 Z10 • 501 X99

B35 Z10 • 751 X99

Other resistor values are available.

Contact M/A-COM for details.

#### (1 watt)



**Impedance** 

Part Number ①

50 ohm

B35 Z98 • 501 X99

75 ohm

B35 Z98 • 751 X99

91 ohm

B35 Z98 • 911 X99

9.1 M ohm

B35 Z98 • 916 X99

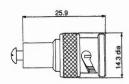
All measurements are in millimeters unless otherwise specified.

#### M/A-COM, Inc.

① Replace the • in the part number with required plating code, see page 3 for details. Please contact the Sales Office for any uncataloged requirements.

#### RESISTER PLUGS

#### Earthed (1 watt)



**Impedance** 

Part Number ①

50 ohm

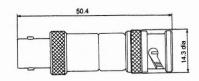
B35 X06 • 501 X99

75 ohm

B35 X06 • 751 X99

#### **ATTENUATORS**

#### **Attenuators**



Impedance	Part Number ①	Rating	
50 ohm	B35 X21 • 003 X99	3dB 1.0W	VSWR 1.2 (DC to 1 GHz)
50 ohm	B35 X21 • 006 X99	6dB 1.0W	VSWR 1.2 (DC to 1 GHz)
50 ohm	B35 X21 • 010 X99	10dB 0.5W	VSWR 1.2 (DC to 1 GHz)
50 ohm	B35 X21 • 020 X99	20dB 0.5W	VSWR 1.2 (DC to 1 GHz)
75 ohm	B37 X21 • 003 X99	3dB 1.0W	VSWR 1.2 (DC to 0.5 GHz)
75 ohm	B37 X21 • 006 X99	6dB 1.0W	VSWR 1.2 (DC to 0.5 GHz)
75 ohm	B37 X21 • 010 X99	10dB 0.5W	VSWR 1.2 (DC to 0.5 GHz)
75 ohm	B37 X21 • 020 X99	20dB 0.5W	VSWR 1.2 (DC to 0.5 GHz)

All measurements are in millimeters unless otherwise specified.

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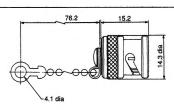
Asia/Pacific: Tel. +85 2 2111 8088 Fax +85 2 2111 8087

Europe: Tel. +44 (1344) 869 595

 $<sup>\ \, \</sup>bigcirc \,$  Replace the  $\bullet$  in the part number with required plating code, see page 3 for details. Please contact the Sales Office for any uncataloged requirements.

#### CAPS

### (with chain)

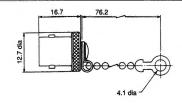


**Impedance** 

Part Number ①

B30 Z01 • 999 X99

### (with chain)

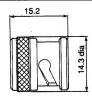


**Impedance** 

Part Number ①

B30 Z03 • 999 X99

#### Cap



**Impedance** 

Part Number ①

B30 Z02 • 999 X99

#### Cap



**Impedance** 

Part Number ①

B30 Z04 • 999 X99

① Replace the • in the part number with required plating code, see page 3 for details. Please contact the Sales Office for any uncataloged requirements.

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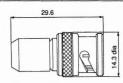
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#### **TERMINATIONS**

#### **Termination**



**Impedance** 50 ohm

75 ohm

Part Number ①

B35 X20 • 999 X99

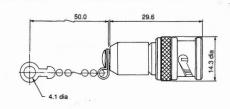
B37 X30 • 999 X99

**Specification** 

1.0W VSWR 1.1 (DC-1GHz) / 1.2 (1GHz-2GHz)

0.5W VSWR 1.1 (DC-1GHz)

#### (With chain)



**Impedance** 50 ohm

75 ohm

Part Number ①

B35 X25 • 999 X99

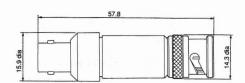
B37 X36 • 999 X99

**Specification** 

1.0W VSWR 1.1 (DC to 1 GHz)/1.2 (1GHz-2GHz)

0.5W VSWR 1.1 (DC-IGHz)

### Through terminations



**Impedance** 

Part Number ①

50 ohm

B35 X13 • 999 X99

75 ohm

B37 X33 • 999 X99

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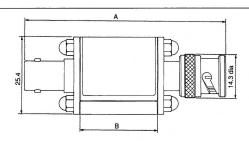
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① Replace the • in the part number with required plating code, see page 3 for details. Please contact the Sales Office for any uncataloged requirements.

#### **CIRCUIT BOXES**

#### Circuit boxes



M/A-COM circuit boxes provide a versatile means of mounting small component networks. They are constructed using aluminum extrusion with tongue and groove joints for optimum rf screening. Access is obtained by removing only one screw and earth tags are provided at each end of the box.

**Impedance** 

Part Number ①

Α

50 ohm

B35 X73 • 999 X99

50.0

50 ohm

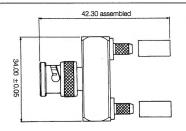
B35 X78 • 999 X99

91.0 117.0

76.0

#### Y CONNECTERS

Y plug crimp center contact, crimp outer



**Impedance** 

Cable group ①

Part Number @

Crimp tool ③

50 ohm

B10

B35 A51 • B10 X99

30040 or 30039

- ① For cable group to cable type cross reference refer to page 200.
- $\ensuremath{ @}$  Replace the  $\ensuremath{ \bullet}$  in the part number with required plating code, see page 3 for details.
- 3 Crimp tool 30039 requires separate dies, for all details on tooling, see page 194. Please contact the Sales Office for any uncataloged requirements.

All measurements are in millimeters unless otherwise specified.

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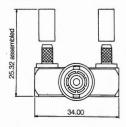
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#### Y CONNECTER

Y Elbow plug crimp center contact, crimp outer

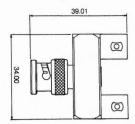


Impedance 50 ohm Cable group ① B10 Part Number ②

B35 A52 • B10 X99

Crimp tool  $\ensuremath{\mathfrak{3}}$ 

30040 or 30039

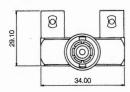


**Impedance** 

50 ohm

Part Number 2

B35 P17 • 999 X99



**Impedance** 

Part Number ②

50 ohm

B35 P18 • 999 X99

- ① For cable group to cable type cross reference refer to page 200.
- Replace the in the part number with required plating code, see page 3 for details.
- ③ Crimp tool 30039 requires separate dies, for all details on tooling, see page 194.

Please contact the Sales Office for any uncataloged requirements.

All measurements are in millimeters unless otherwise specified.

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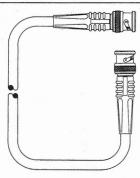
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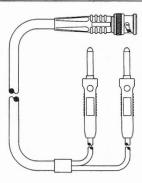
#### STANDARD CABLE ASSEMBLIES

### Plug to plug



	Nominal o/a	Body	Contact	
Impedance	length	plating	plating	Part number
50 ohm	0.5m	nickel	silver	GEX 605
50 ohm	0.5m	silver	silver	GEX 372
50 ohm	1.0m	nickel	silver	GEX 606
50 ohm	1.0m	silver	silver	GEX 373
50 ohm	1.5m	nickel	silver	GEX 607
50 ohm	1.5m	silver	silver	GEX 374
50 ohm	2.0m	nickel	silver	GEX 608
50 ohm	2.0m	silver	silver	GEX 375

### Plug to plugs (4mm)



Impedance	Nominal o/a length	Body plating	Contact plating	Part number
50 ohm	1.0m	nickel	silver	GEX 638
50 ohm	1.0m	silver	silver	GEX 258

All measurements are in millimeters unless otherwise specified.

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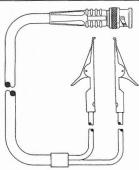
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#### STANDARD CABLE ASSEMBLIES

Plug to clips



Impedance	Nominal o/a length	Body plating	Contact plating	Part number	
50 ohm	1.0m	nickel	silver	GEX 644	
50 ohm	1.0m	silver	silver	GEX 257	

All measurements are in millimeters unless otherwise specified.