AMP

Guide to
RF Connectors

Interconnection Systems
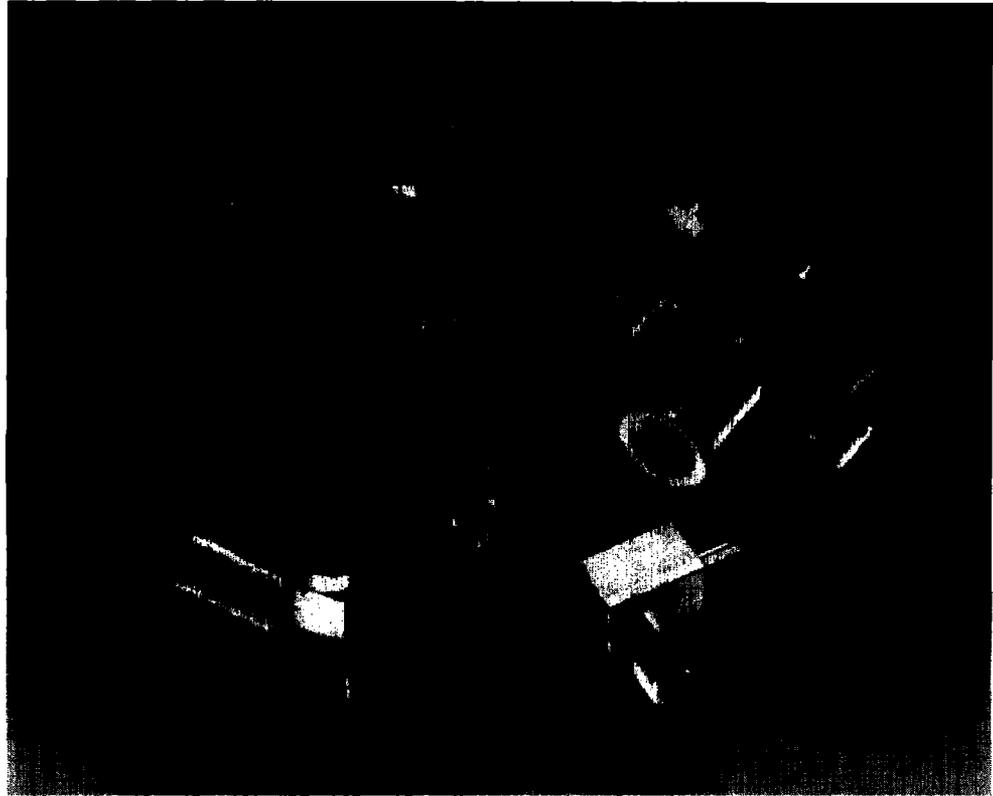Selection Guide 82750
Revised 7-95

Hex Crimp and Printed Circuit Board SMA Connectors

Product Facts

- Time-saving three-component assembly
- Performance to 12.4 GHz
- Uses industry standard crimp tools
- Meets all performance requirements of MIL-C-39012
- Swept right-angle plug contact reduces assembly time and error
- Crimp center contacts

The AMP Hex Crimp SMA product is designed for 12.4 GHz performance, and accommodates most popular cables such as RG58, RG142, RG316, RD316, RG55 and RG223. By having only three components to assemble, cable assembly complexity is greatly reduced.

The AMP right-angle connectors use a swept center contact which eliminates costly and reliability-reducing end cap assembly, and allows crimping of the coaxial center conductor. These connectors meet the performance criteria of MIL-C-39012.

The new AMP design also uses an industry standard indent crimp for center contact crimping, thereby reducing overall assembly costs and increasing reliability.

Using industry standard crimp tools eliminates the need for special manufacturing processes.

Coaxial and Flat Coaxial Cable Connectors
SMA Connectors

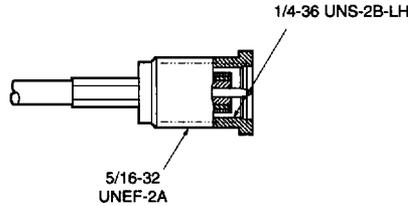## Hex Crimp and Printed Circuit Board SMA Connectors
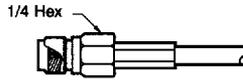(Continued)
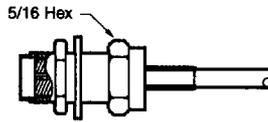
Bulkhead Jack
Part No. 449486-1
(Brass body, nickel plated)

Antenna Connector Plug, Flange Mounted
Part No. 448773-1
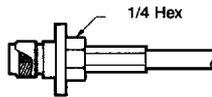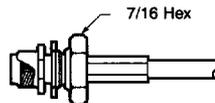(Brass body, nickel plated, left-hand internal thread)

Jacks

| RG/U | Part No. | Body Material and Finish | Center Contact Crimp | | | Ferrule Crimp | |
			Military Tool	Posi- tioner	Setting	Military Tool	Die Part No.
58, 58A, 58B, 58C	447648-1	Brass, Ni plated	M22520/2-01	K997	6	M22520/5-01	M22520/5-11 A
142, 142A, 142B	447648-2	Brass, Ni plated	M22520/2-01	K997	7	M22520/5-01	M22520/5-11 A
174, 174A, 188, 188A, 316	447648-3	Brass, Ni plated	M22520/2-01	K997	4	M22520/5-01	M22520/5-35 B
174DB, 188DB, 316DB	447648-4	Brass, Ni plated	M22520/2-01	K997	4	M22520/5-01	M22520/5-35 B

Panel Jacks

| RG/U | Part No. | Body Material and Finish | Center Contact Crimp | | | Ferrule Crimp | |
			Military Tool	Posi- tioner	Setting	Military Tool	Die Part No.
58, 58A, 58B, 58C	447649-1	Brass, Ni plated	M22520/2-01	K997	6	M22520/5-01	M22520/5-11 A
142, 142A, 142B	447649-2	Brass, Ni plated	M22520/2-01	K997	7	M22520/5-01	M22520/5-11 A
174, 174A, 188, 188A, 316	447649-3	Brass, Ni plated	M22520/2-01	K997	4	M22520/5-01	M22520/5-35 B
	447649-6	SST, passivated					
174DB, 188DB, 316DB	447649-4	Brass, Ni plated	M22520/2-01	K997	4	M22520/5-01	M22520/5-35 B
Belden YR20621 (RG58 Type)	447649-5	SST, passivated	M22520/2-01	K997	6	M22520/5-01	M22520/5-11 A

Bulkhead Jacks

| RG/U | Part No. | Body Material and Finish | Center Contact Crimp | | | Ferrule Crimp | |
			Military Tool	Posi- tioner	Setting	Military Tool	Die Part No.
58, 58A, 58B, 58C	447650-1	Brass, Ni plated	M22520/2-01	K997	6	M22520/5-01	M22520/5-11 A
142, 142A, 142B	447650-2	Brass, Ni plated	M22520/2-01	K997	7	M22520/5-01	M22520/5-11 A
	447650-7	SST, passivated					
174, 174A, 188, 188A, 316	447650-3	Brass, Ni plated	M22520/2-01	K997	4	M22520/5-01	M22520/5-35 B
	447650-6	SST, passivated					
174DB, 188DB, 316DB	447650-4	Brass, Ni plated	M22520/2-01	K997	4	M22520/5-01	M22520/5-35 B
	447650-8	SST, passivated					
Belden YR20621 (RG58 Type)	447650-5	SST, passivated	M22520/2-01	K997	6	M22520/5-01	M22520/5-11 A

SOURCE: Catalog 82074

Hex Crimp and Printed Circuit Board SMA Connectors
(Continued)

Plugs
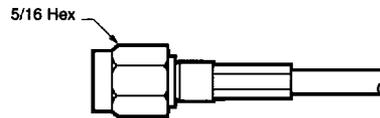
5/16 Hex

RG/U	Part No.	Body Material and Finish	Center Contact Crimp			Ferrule Crimp	
			Military Tool	Positioner	Setting	Military Tool	Die Part No.
58, 58A, 58B, 58C	447647-1	Brass, Ni plated	M22520/2-01	M22520/2-20	6	M22520/5-01	M22520/5-11 A
RG142, 142A, 142B	447647-2	Brass, Ni plated	M22520/2-01	M22520/2-20	7	M22520/5-01	M22520/5-11 A
	447647-7	SST, passivated					
	1-447647-2	Brass, Ni plated					
174, 174A, 188, 188A, 316	447647-3	Brass, Ni plated	M22520/2-01	M22520/2-20	4	M22520/5-01	M22520/5-35 B
	447647-6	SST, passivated					
174DB, 188DB, 316DB	447647-4	Brass, Ni plated	M22520/2-01	M22520/2-20	4	M22520/5-01	M22520/5-35 B
	447647-8	SST, passivated					
Belden YR20621 (RG58 Type)	447647-5	SST, passivated	M22520/2-01	M22520/2-20	6	M22520/5-01	M22520/5-11 A
RG174, 188, 316	447647-9	Brass, Ni plated	M22520/2-01	M22520/2-20	4	M22520/5-01	M22520/5-35 B
	1-447647-4	Brass, Gold Plated					
RG55, 55A, 223	1-447647-0	Brass, Ni plated	M22520/2-01	M22520/2-20	7	M22520/5-01	M22520/5-11 A
Belden YR20621	1-447647-1	Brass, Ni plated	M22520/2-01	M22520/2-20	6	M22520/5-01	M22520/5-11 A
	1-447647-3	Brass, Gold Plated					

Right-Angle Plugs
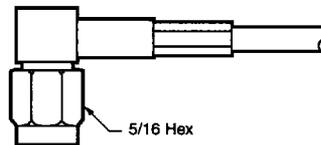
5/16 Hex

RG/U	Part No.	Body Material and Finish	Center Contact Crimp			Ferrule Crimp	
			Military Tool	Positioner	Setting	Military Tool	Die Part No.
RG55, 55A, 223	1-447651-2	Brass, Ni plated	M22520/2-01	K997	7	M22520/5-01	M22520/5-11 A
	1-447651-3	Brass, Gold plated					
58, 58A, 58B, 58C	447651-1	Brass, Ni plated	M22520/2-01	K997	6	M22520/5-01	M22520/5-11 A
	447651-9	SST, passivated					
142, 142A, 142B	447651-2	Brass, Ni plated	M22520/2-01	K997	7	M22520/5-01	M22520/5-11 A
	447651-7	SST, passivated					
	1-447651-1	Brass, Ni plated					
174, 174A, 188, 188A, 316	447651-3	Brass, Ni plated	M22520/2-01	K997	4	M22520/5-01	M22520/5-35 B
	447651-6	SST, passivated					
174DB, 188DB, 316DB	447651-4	Brass, Ni plated	M22520/2-01	K997	4	M22520/5-01	M22520/5-35 B
	447651-8	SST, passivated					
Belden YR20621 (RG58 Type)	447651-5	SST, passivated	M22520/2-01	K997	6	M22520/5-01	M22520/5-11 A
Belden YR20621	1-447651-0	Brass, Ni plated	M22520/2-01	K997	6	M22520/5-01	M22520/5-11 A
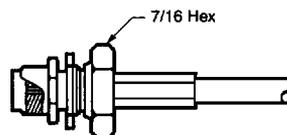
Bulkhead Jacks

7/16 Hex

RG/U	Part No.	Body Material and Finish	Center Contact Crimp			Ferrule Crimp	
			Military Tool	Positioner	Setting	Military Tool	Die Part No.
142, 142A, 142B	448103-1	Brass, Ni plated	M22520/2-01	K997	7	M22520/5-01	M22520/5-11 A
174, 174A, 188, 188A, 316	448103-2	Brass, Ni plated	M22520/2-01	K997	4	M22520/5-01	M22520/5-35 B
	448103-4	SST, passivated					
Belden YR20621 (RG58 Type)	448103-3	SST, passivated	M22520/2-01	K997	6	M22520/5-01	M22520/5-11 A

SOURCE: Catalog 82074

Coaxial and Flat Coaxial Cable Connectors
SMA Connectors

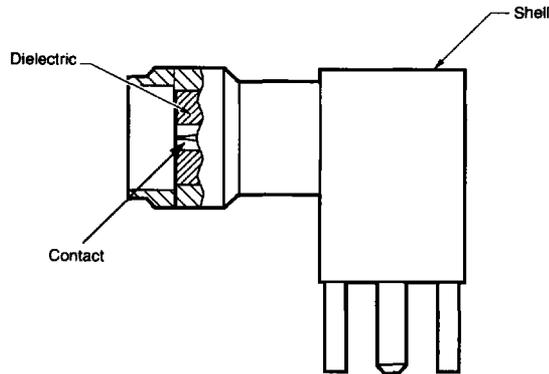## Hex Crimp and Printed Circuit Board SMA Connectors
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Vertical Printed Circuit Board Jacks
M39012/93-3001
Part No. 447920-1
(Stainless steel body, gold plated)
Part No. 447920-2
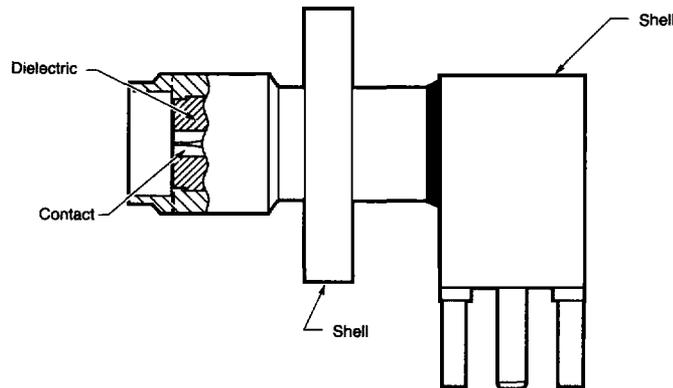(Brass body, gold plated)
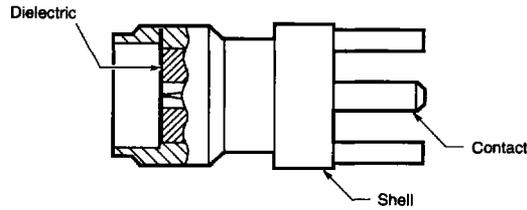
Right-Angle Printed Circuit Board Jacks
M39012/94-3001
Part No. 447921-1
(Stainless steel body, gold plated)
Part No. 447921-2
(Brass body, gold plated)

Part No. 448774-1
(Brass body, nickel plated, left-hand thread)

Part No. 449709-1
(Brass body, nickel plated)

SOURCE: Catalog 82074