

TNC Connectors

Product Facts

Single Crimp Connectors

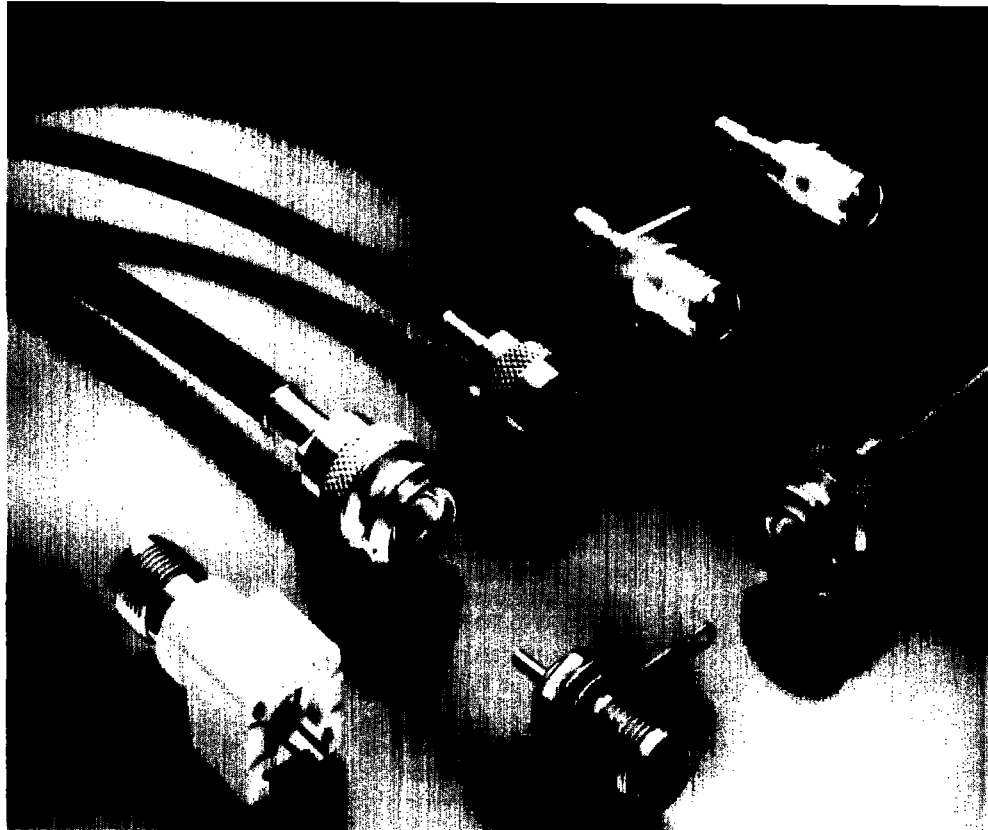
- Fast application—one crimping operation terminates inner conductor, outer braid and cable support
- Low application cost

Dual Crimp Connectors

- Manufactured in accordance with all requirements of MIL-C-39012, Class II, Category B
- Choice of dielectric materials
- Standard and weatherproof versions available
- Plugs available for high temperature cable
- Low cost commercial type available
- Commercial type is smaller and lighter weight
- Provides excellent performance at frequencies up to 7 GHz
- Tarnish resistant nickel finish
- 50 and 75 ohm commercial versions available

Connectors for Semi-Rigid Cable

- Standard cable stripping dimensions
- Universal cable termination common to all configurations



The AMP TNC RF connector family, with 7/16-28 threaded couplings, provides low noise levels and optimum stability, and can withstand the shock and vibration often present in hostile environments.

Available in both 50 and 75 ohm versions, these connectors feature numerous styles including cable plugs and jacks, adapters and printed circuit board connectors. These connectors accept a wide range of coaxial cables and are interchangeable with industry standard connectors designed

to MIL-C-39012 specifications.

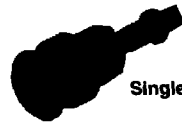
Single crimp connectors provide reduced application time and lower applied costs. This is accomplished by using AMP one-crimp operation tooling which simultaneously terminates the inner conductor, outer braid and cable support with one controlled stroke.

When applications require military approved connectors, note that various dual crimp connectors meet or exceed all the requirements in specification MIL-C-39012,

Class II, Category B, and carry the appropriate military designation number. For reduced cost with a high degree of reliability, these same connectors are offered in a tarnish-resistant nickel finish.

AMP can also supply low-cost alternatives with a commercial type product line. These connectors are designed around the mil-specifications, offering comparable mechanical and electrical performance.

TNC Connectors, 50 Ohm Plugs, Crimp



Single Crimp



Mil Type
Dual Crimp



Dual Crimp
and Hex Crimp



Semi-Rigid
Cable

Connector Cable Range Selection Code†	RG/U Cable	Termination Type	Center Contact Plating	Body Plating	Dielectric	Style	M39012/ Military No. and/or Comments	Part No.	CERTI-CRIMP Hand Tool with Integral Die	Interchangeable Dies for PRO-CRIMPER II Hand Tool	Interchangeable Dies for Hand Tool 69710-1 & Pneu. Tools 69365 & 69365-3
B	174, 188, 188A, 316	Hex Crimp	Gold	Nickel	Polypropylene	Commercial	—	222506-5	—	58465-3	—
		Dual Crimp	Gold	Nickel	Polypropylene	Commercial	—	5-227000-0	220009-5	220210-1	—
B1	179, 179A, 179B, 161, 187, 187A, Belden 9221	Hex Crimp	Gold	Nickel	Polypropylene	Commercial	—	222506-6	—	58465-3	—
		Single Crimp	Gold	Silver	TEFLON	Mil Type	—	331103	69245-1	—	64908
B3	RD316, 188 Double Braid	Hex Crimp	Gold	Nickel	Polypropylene	Commercial	—	222506-9	—	58465-3	—
		Dual Crimp	Gold	Nickel	Polypropylene	Commercial	—	5-227000-1	69477-4	58330-1	—
C1	180, 180A, 180B, 195, 195A	Hex Crimp	Gold	Nickel	Polypropylene	Commercial	—	222506-7	—	58465-3	—
		Hex Crimp	Gold	Nickel	Polypropylene	Commercial	—	222506-1	—	58436-1 ²	—
D	58, 58A, 58B, 58C	Dual Crimp	Gold	Silver	TEFLON	Mil Type	26B0005	225550-2	220045-2	—	—
		Dual Crimp	Gold	Nickel	TEFLON	Mil Type	Weatherproof	225555-2	220045-2	—	—
		Single Crimp	Gold	Silver	TEFLON	Mil Type	—	330953	69376-3	—	69815
D, D1	58, 58A, 58B, 58C, 141, 141A, 303	Dual Crimp	Gold	Nickel	Polypropylene	Commercial	—	227000-5	220187-1	58435-1 ¹	220217-1
D1	141, 141A, 303	Dual Crimp	Gold	Nickel	TEFLON	Mil Type	Weatherproof	225555-5	220045-2	—	—
D1	Belden 9907, 89907, Comm/Scope 3104, 2104, RG141, 141A, 303	Hex Crimp	Gold	Nickel	Polypropylene	Commercial	—	222506-8	—	58465-1	—
		Dual Crimp	Gold	Silver	TEFLON	Mil Type	26B0016 Weatherproof	225550-1	220045-2	—	—
		Single Crimp	Gold	Silver	TEFLON	Mil Type	Weatherproof	2-330953-3	69376-3	—	69815
E	223, 55, 55A, 55B	Hex Crimp	Gold	Nickel	Polypropylene	Commercial	—	1-222506-1	—	58465-1	—
		Hex Crimp	Gold	Nickel	Polypropylene	Commercial	—	222506-4	—	58465-1	—
		Dual Crimp	Gold	Silver	TEFLON	Mil Type	26B0006	225345-6	220045-2	—	—
		Dual Crimp	Gold	Nickel	Polypropylene	Commercial	—	4-227000-6	220187-1	58435-1 ¹	220217-1
		Dual Crimp	Gold	Silver	TEFLON	Mil Type	26B0006 Weatherproof	225550-6	220045-2	—	—
		Dual Crimp	Gold	Nickel	TEFLON	Mil Type	Weatherproof	225555-6	220045-2	—	—
E1	142, 142A, 142B, 400	Single Crimp	Gold	Silver	TEFLON	Mil Type	Weatherproof	2-330953-2	69376	—	69493-1
		Hex Crimp	Gold	Nickel	Polypropylene	Commercial	—	222506-2	—	58436-1 ²	—
		Dual Crimp	Gold	Silver	TEFLON	Mil Type	26B0007 Weatherproof	225550-3	220045-3	—	—
		Dual Crimp	Gold	Nickel	TEFLON	Mil Type	Weatherproof	225555-3	220045-3	—	—
		Dual Crimp	Gold	Nickel	Polypropylene	Commercial	—	227000-7	220187-2	58435-1 ¹	220217-2
G	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	Single Crimp	Gold	Silver	TEFLON	Mil Type	—	331100	69141-1	—	69224-1
		Hex Crimp	Gold	Nickel	Polypropylene	Commercial	—	222506-2	—	58436-1 ²	—
		Dual Crimp	Gold	Silver	TEFLON	Mil Type	26B0007 Weatherproof	225550-3	220045-3	—	—
		Dual Crimp	Gold	Nickel	TEFLON	Mil Type	Weatherproof	225555-3	220045-3	—	—
J1	Belden 9248, 9114	Dual Crimp	Tin-Lead	Nickel	Polypropylene	Commercial	—	1-227000-7	220247-1	220244-1	—
		Dual Crimp	Gold	Nickel	TEFLON	Mil Type	Weatherproof	225555-7	220015-1	—	—
M	8, 8A, 213	Dual Crimp	Gold	Nickel	TEFLON	Mil Type	Weatherproof	225555-7	220015-1	—	—
M3	Alpha 9847, Belden 8213, 9292	Dual Crimp	Gold	Silver	TEFLON	Mil Type	Weatherproof	1-225550-3	220015-1	—	—
M4	225, 393	Dual Crimp	Gold	Silver	TEFLON	Mil Type	Weatherproof	1-225550-2	220015-1	—	—

¹Order PRO-CRIMPER II Coaxial "O" Crimp Hand Tool Assembly Part No. 58433-1, which includes dies Part No. 58435-1.
²Order PRO-CRIMPER II Coaxial Hex Crimp Hand Tool Assembly Part No. 58433-2, which includes dies Part No. 58436-1.
[†]Refer to Appendix Pages for code specifications.

SOURCE: Catalog 82074

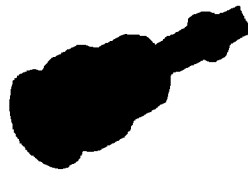
Coaxial and Flat Coaxial Cable Connectors
TNC Connectors

TNC Connectors, 50 Ohm

(Continued)

Plugs, Crimp

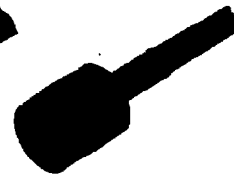
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Single Crimp



Mil Type
Dual Crimp



Dual Crimp and
Hex Crimp



Semi-Rigid
Cable

Connector Cable Range Selection Code [†]	RG/U Cable	Termination Type	Center Contact Plating	Body Plating	Dielectric	Style	M39012/Military No. and/or Comments	Part No.	CERTI-CRIMP Hand Tool with Integral Die	Interchangeable Dies for PRO-CRIMPER II Hand Tool	Interchangeable Dies for Hand Tool 69710-1 & Pneu. Tools 69365 & 69365-3
N	9, 9A, 9B, 214	Dual Crimp	Gold	Silver	TEFLON	Mil Type	Weatherproof	225550-8	220015-1	—	—
		Dual Crimp	Gold	Nickel	TEFLON	Mil Type	Weatherproof	225555-8	220015-1	—	—
		Dual Crimp	Gold	Silver	TEFLON	Mil Type	—	225345-8	220015-1	—	—
O	402 Semi-Rigid/.141	Crimp	Gold	Nickel	TEFLON	Commercial	—	228179-2	—	1	2
		Crimp	Gold	Nickel	TEFLON	Commercial	Weatherproof	228179-3	—	3	4

[†]Refer to Appendix Pages for code specifications.

[†]Hand Tool Part No. 59900-1, requires (2) Crimping Dies Part No. 312253-1 and (1) Locator Part No. 220220-2.

[†]Pneumatic Tool Part No. 58318-1, requires (2) Crimping Dies Part No. 313720-1 and (1) Locator Part No. 220241-1.

[†]Hand Tool Part No. 59900-1, requires (2) Crimping Dies Part No. 312253-1 and (1) Locator Part No. 312644-1.

[†]Pneumatic Tool Part No. 59964-1, requires (2) Crimping Dies Part No. 220243-1 and (1) Locator Part No. 312645-1.

Right-Angle Plugs, Crimp



Dual Crimp



Weatherproof

Connector Cable Range Selection Code [†]	RG/U Cable	Termination Type	Center Contact Plating	Body Plating	Dielectric	Style	M39012/Military No. and/or Comments	Part No.	CERTI-CRIMP Hand Tool with Integral Die	Interchangeable Dies for PRO-CRIMPER II Hand Tool	Interchangeable Dies for Hand Tool 69710-1 & Pneu. Tools 69365 & 69365-3
B	174, 174A, 188 188A, 316	Dual Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	—	414173-3	—	220210-1	—
B3	RD 188, 316 Double Braid	Dual Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	—	414173-4	—	58330-1	—
D	58, 58A, 58B 58C	Dual Crimp	Gold	Silver	TEFLON	Mil Type	Weatherproof	225554-2	220045-2	—	—
		Dual Crimp	Gold	Nickel	TEFLON	Mil Type	Weatherproof	225559-2	220045-2	—	—
D, D1	58, 58A, 58B, 58C 141, 141A, 303	Dual Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	—	414173-1	—	220189-1	—
D1	141, 141A, 303	Dual Crimp	Gold	Silver	TEFLON	Mil Type	—	225349-5	220045-2	—	—
E	55, 55A, 55B 223	Dual Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	—	414173-6	—	220189-1	—
E1	142, 142A, 142B 400	Dual Crimp	Gold	Silver	TEFLON	Mil Type	Weatherproof	225554-6	220045-2	—	—
		Dual Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	—	414173-5	—	220189-1	—
G	124, 140, 210, 62 62A, 62B, 59, 59A 59B, Belden 9291 9209, 9269	Dual Crimp	Gold	Nickel	TEFLON	Mil Type	—	225403-3	220045-3	—	—
		Dual Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	—	414173-2	—	220189-2	—
M	8, 8A, 213	Dual Crimp	Gold	Nickel	TEFLON	Mil Type	Weatherproof	225559-8	220015-1	—	—
M4	393, 225	Dual Crimp	Gold	Silver	TEFLON	Mil Type	Weatherproof	1-225554-1	220015-1	—	—
N	9, 9A, 9B, 214	Dual Crimp	Gold	Silver	TEFLON	Mil Type	—	225349-9	220015-1	—	—
		Dual Crimp	Gold	Silver	TEFLON	Mil Type	Weatherproof	225554-9	220015-1	—	—

[†]Refer to Appendix Pages for code specifications.

SOURCE: Catalog 82074

TNC Connectors, 50 Ohm (Continued) Jacks, Crimp



Connector Cable Range Selection Code†	RG/U Cable	Termination Type	Center Contact Plating	Body Plating	Dielectric	Style	M39012/Military No. and/or Comments	Part No.	CERTI-CRIMP Hand Tool with Integral Die	Interchangeable Dies for PRO-CRIMPER II Hand Tool	Interchangeable Dies for Hand Tool 69710-1 & Pneu. Tools 69365 & 69365-3
B	174, 174A, 188, 188A, 316	Dual Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	—	414171-3	—	220210-1	—
B3	RD 188, 316 Double Braid	Dual Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	—	414171-4	—	58330-1	—
D	58, 58A, 58B, 58C	Dual Crimp	Gold	Nickel	TEFLON	Mil Type	—	225400-2	220045-2	—	—
		Dual Crimp	Gold	Silver	TEFLON	Mil Type	27B0005 Weatherproof	225551-2	220045-2	—	—
D, D1	58, 58A, 58B, 58C, 141, 141A, 303	Dual Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	—	414171-1	—	220189-1	—
D1	141, 141A, 303	Dual Crimp	Gold	Silver	TEFLON	Mil Type	27B0015 Weatherproof	225551-5	220045-2	—	—
E	55, 55A, 55B, 223	Dual Crimp	Gold	Silver	TEFLON	Mil Type	27B0016	225551-1	220045-2	—	—
		Dual Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	—	414171-6	—	220189-1	—
E1	142, 142A, 142B, 400	Dual Crimp	Gold	Silver	TEFLON	Mil Type	27B0006 Weatherproof	225551-6	220045-2	—	—
		Dual Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	—	414171-5	—	220189-1	—
G	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	Dual Crimp	Gold	Nickel	TEFLON	Mil Type	—	225400-3	220045-3	—	—
		Dual Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	—	414171-2	—	220189-2	—

†Refer to Appendix Pages for code specifications.

Panel Jacks, Crimp



Connector Cable Range Selection Code†	RG/U Cable	Termination Type	Center Contact Plating	Body Plating	Dielectric	Style	M39012/Military No. and/or Comments	Part No.	CERTI-CRIMP Hand Tool with Integral Die
D	58, 58A, 58B, 58C	Dual Crimp	Gold	Silver	TEFLON	Mil Type	29B0005	225348-2	220045-2

†Refer to Appendix Pages for code specifications.

Bulkhead Jacks for Semi-Rigid Cable, Rear Mount



Connector Cable Range Selection Code†	RG/U Cable	Termination Type	Center Contact Plating	Body Plating	Dielectric	Style	M39012/Military No. and/or Comments	Part No.	CERTI-CRIMP Hand Tool with Integral Die
O	402 Semi-Rigid/.141	Crimp	Gold	Nickel	TEFLON	Mil Type	—	228502-1	*
P	405 Semi-Rigid/.086	Crimp	Gold	Nickel	TEFLON	Mil Type	—	228507-1	**

†Refer to Appendix Pages for code specifications.

*Tooling—Hand Tool Part No. 59980-1, requires (2) Crimping Dies Part No. 312253-1 and (1) Locator Part No. 220220-1. Pneumatic Tool, Part No. 58318-1, requires (2) Crimping Dies Part No. 313720-1 and (1) Locator Part No. 220241-1.

**Tooling—Hand Tool Part No. 59980-1, requires (2) Crimping Dies Part No. 312253-2 and (1) Locator Part No. 220221-2. Pneumatic Tool Part No. 58318-1, requires (2) Crimping Dies Part No. 313719-1 and (1) Locator Part No. 308075-2.

Coaxial and Flat Coaxial Cable Connectors
TNC Connectors

TNC Connectors, 50 Ohm

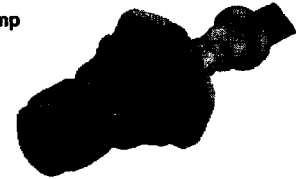
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**Bulkhead Jacks,
Crimp**

Single Crimp



Dual Crimp



Connector Cable Range Selection Code†	RG/U Cable	Termination Type	Center Contact Plating	Body Plating	Dielectric	Style	M39012/Military No. and/or Comments	Part No.	CERTI-CRIMP Hand Tool with Integral Die	Interchangeable Dies for PRO-CRIMPER II Hand Tool	Interchangeable Dies for Hand Tool 69710-1 & Pneu. Tools 69365 & 69365-3
B	174, 174A, 316 188, 188A	Dual Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	—	414168-3	—	220210-1	—
		Single Crimp	Gold	Silver	TEFLON	Mil Type	—	331237	69245-1	—	69422
B1	179, 179A, 179B 161, 187, 187A Belden 9221	Single Crimp	Gold	Nickel	TEFLON	Mil Type	—	331238	69245-1	—	69408
B3	RD 188, 316 Double Braid	Dual Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	—	414168-4	—	58330-1	—
C1	180, 180A, 180B 195, 195A	Single Crimp	Gold	Silver	TEFLON	Mil Type	—	331239	69346-1	—	69423
D	58, 58A, 58B, 58C	Dual Crimp	Gold	Silver	TEFLON	Mil Type	Weatherproof	1-225552-1	220045-2	—	—
		Dual Crimp	Gold	Nickel	TEFLON	Mil Type	Weatherproof	225557-2	220045-2	—	—
		Single Crimp	Gold	Silver	TEFLON	Mil Type	Weatherproof	331325	69376-3	—	69815
D, D1	58, 58A, 58B, 58C 141, 141A, 303	Dual Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	—	414168-1	—	220189-1	—
D1	141, 141A, 303	Dual Crimp	Gold	Nickel	TEFLON	Mil Type	Weatherproof	225557-5	220045-2	—	—
E	223 55, 55A, 55B	Dual Crimp	Gold	Silver	TEFLON	Mil Type	28B0016	225347-1	220045-2	—	—
		Dual Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	—	414168-6	—	220189-1	—
E1	142, 142A 142B, 400	Dual Crimp	Gold	Nickel	TEFLON	Mil Type	Weatherproof	225557-6	220045-2	—	—
		Dual Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	—	414168-5	—	220189-1	—
G	120, 240, 210 62, 62A, 62B 59, 59A, 59B Belden 9291 9209, 9269	Dual Crimp	Gold	Nickel	TEFLON	Mil Type	—	225401-3	220045-3	—	—
		Dual Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	—	414168-2	—	220189-2	—

†Refer to Appendix Pages for code specifications.

Coaxial and Flat Coaxial Cable Connectors
TNC Connectors

Right-Angle PC Board/Panel Mount Jacks

Lockwasher and Jam Nut

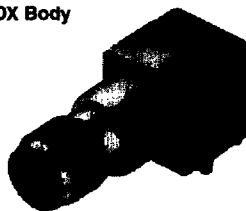


Part No.
1-329632-2

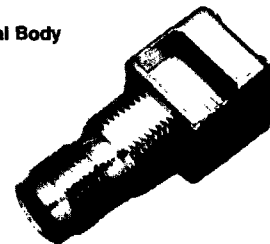


Part No.
1-329631-2

VALOX Body



Metal Body



Body Material	Center Contact Plating	Part Numbers	
		Without Mounting Posts	With Mounting Posts
VALOX, White	Gold	227812-1	227818-1
Metal	Gold	227838-1	227839-1

Note: Maximum panel thickness .240 [6.10].
2-56 Self-Tapping Screw for panel thickness of 3/32 [2.38] or greater **Part No. 221106-2**.
2-56 Self-Tapping Screw for panel thickness of less than 3/32 [2.38] **Part No. 221108-4**.

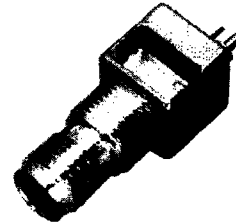
TNC Connectors, 50 Ohm (Continued)

Vertical PC Board/Panel Mount Jacks

VALOX Body



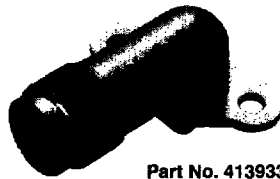
Metal Body



Body Material	Center Contact Plating	Part Numbers	
		Without Mounting Posts	With Mounting Post
VALOX, White	Gold	227816-1	227820-1
VALOX, Black	Gold	227817-1	—
Metal	Gold	—	227835-1

Note: Maximum panel thickness .240 [6.1]
2.56 Self-Tapping Screws for panel thickness of 3/32 [2.38] or greater **Part No. 221108-2.**
2.56 Self-Tapping Screws for panel thickness of less than 3/32 [2.38] **Part No. 221108-4.**

Right-Angle PC Board/ Panel Mount Jacks



Part No. 413933-1



Part No. 414449-1

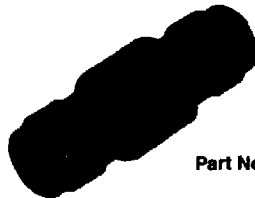
Bulkhead Solder Jacks

Insulation Bushing Part No. 227223-1



Panel Thickness	Part Numbers	
	With Solder Terminal	Without Solder Terminal
.040-.156 1.02-3.96	227760-2	227758-2
.046-.250 1.17-6.35	227762-2	227764-2

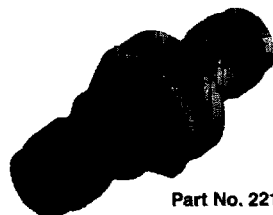
Jack Adapters



Part No. 221325-1

Bulkhead Jack Adapters

Note: Maximum panel thickness .250 [6.35].



Part No. 221500-1

TNC Dust Cap with Chain



Part No. 414910-1

Coaxial and Flat Coaxial Cable Connectors
TNC Connectors

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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[SMA6251A1-3GT50G-50B](#) [M39012/31-0001](#) [UG-89/U\(40\)](#) [M39012/27-0018](#) [M39012/27-0101](#) [M39012/01-0005](#) [SMA1111A1-3GT50G-1-50](#) [M39012/28-0010](#) [M39012/55B3022](#) [M39012/26-0018](#) [M39012/26-0022](#) [M39012/26-0101](#) [M39012/26-0225](#) [M55339/47-30001](#)
[SMA1112A5-3GT50G-5-50](#) [SMA1112A6-3GT50G-1-50](#) [M39012/79-3108](#) [M39012/79B3001](#) [M39012/80-3107](#) [M39012/55-3030](#)
[M39012/56-3126](#) [M55339/02-30001](#) [M55339/28-30001](#) [M55339/28-30002](#) [M55339/29-30001](#) [M55339/31-30001](#) [UG-29A/U](#) [SMA2071A1-3GT50G-50](#) [1102-0003](#) [M39012/16-0101](#) [M39012/26-0011](#) [M39012/26-0012](#) [M39012/26B0006](#) [M39012/26B0015](#) [M39012/28-0022](#)
[M39012/30-0101](#) [M39012/33-0001](#) [M39012/39-0501](#) [M39012/55-3006](#) [M39012/55-3007](#) [M39012/55-3009](#) [M39012/55-3026](#) [M39012/79-3008](#)