

TNC Connectors (Continued)
Specifications

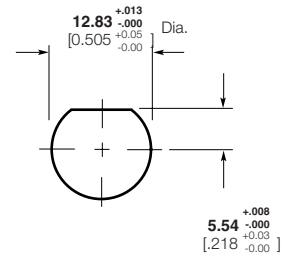
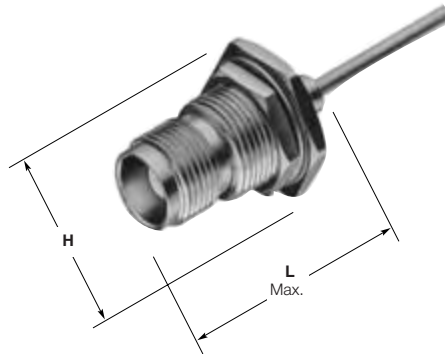
Characteristics	Single Crimp (MIL Type)	Category B O Crimp (MIL Type)	Commercial O Crimp & Hex Crimp 50 & 75 Ohm	Commercial PCB	Commercial Solder Jacks	Semi-Rigid	Solder Clamp
Electrical							
Impedance, Nom. (Ohms)	50	50	50	50	50	50	50
Working Voltage (Volts RMS)	500	500	500	500	500	335	500
Contact Resistance (Milliohms)	Inner: 1.5 Outer: 3	Inner: 1.5 Outer: 0.2	Inner: 2.0 Outer: 0.3	Inner: 6.0 Outer: 3.0	Inner: 2.75 Outer: 1.0	Inner: 1.5 Outer: 0.2	Inner: 1.5 Outer: 0.2
Initial Insulation Resistance (Megohms)	5000	5000	5000	5000	5000	5000	5000
Dielectric Withstanding Voltage (VAC)	1500	1500	1500	1500	1500	1500	1500
Corona Level at 70,000 ft. (Picocoulombs)	5 max. @ 375 VRMS	5 max. @ 375 VRMS	5 max. @ 375 VRMS	—	—	5 max. @ 375 VRMS	5 max. @ 375 VRMS
RF Leakage, Max. (dB)	—	60 @ 2-3 GHz	55 @ 2-3 GHz	—	—	60 @ 2-3 GHz	55 @ 2-3 GHz
RF Insertion Loss, Max. (dB)	—	0.18 @ 9 GHz	0.2 @ 3 GHz	—	—	0.06 @ 3-6 GHz	0.2 @ 3 GHz
Frequency Range (GHz)	0-4	0-11	0-7	0-4	0-4	0-15	0-11
VSWR in Frequency Range Max.	1.35	1.3	1.40	—	—	1.35	1.30 @ 4 GHz
Mechanical							
Force to Engage/ Couple, lbs. [N]	10/2 [44.5/8.9]	2/2 [8.9/8.9]	6/6 [26.7/26.7]	—	—	2 [.023]	2 [.023]
Coupling Nut Retention, Min. lbs. [N]	100 [444.8]	100 [444.8]	60 [266.9]	—	—	100 [444.8]	100 [444.8]
Cable Retention, lbs. [N]	60 [266.9] RG 58C/U	60 [266.9] RG 58C/U	60 [266.9] RG 58C/U	60 [266.9] (PCB Ret)	—	60 [266.9]	40 [178.0]
Durability (Cycles)	500	500	500	500	500	500	500
Jam Nut Mounting Torque, Max. lbs. [N•m]	25 [2.8]	25 [2.8]	25 [2.8]	25 [2.8]	25 [2.8]	25 [2.8]	25 [2.8]
Environmental							
Temperature Range, Operating (C°)	-65 to +85	-65 to +165 ¹ -55 to +85 ²	-55 to +85	-55 to +85	-65 to +165	-65 to +105	-65 to +165
Vibration	MIL-STD-202 Method 204 Cond. B	MIL-STD-202 Method 204 Cond. B	MIL-STD-202 Method 204 Cond. B	MIL-STD-202 Method 201A Cond. A	MIL-STD-202 Method 204 Cond. B	MIL-STD-202 Method 202 Cond. B	MIL-STD-202 Method 202 Cond. B
Physical Shock	MIL-STD-202 Method 213 Cond. G, (50 G's)	MIL-STD-202 Method 213 Cond. I, (100 G's)	MIL-STD-202 Method 213 Cond. I, (100 G's)	MIL-STD-202 Method 213 Cond. I, (100 G's)	MIL-STD-202 Method 213 Cond. I, (100 G's)	MIL-STD-202 Method 213 Cond. I	MIL-STD-202 Method 213 Cond. I
Thermal Shock	MIL-STD-202 Method 107	MIL-STD-202 Method 107 Cond. B	MIL-STD-202 Method 107 Cond. A	MIL-STD-202 Method 107	MIL-STD-202 Method 107	MIL-STD-202 Method 107	MIL-STD-202 Method 107
Moisture Resistance	MIL-STD-202 Method 106	MIL-STD-202 Method 106	MIL-STD-202 Method 106 Type II	MIL-STD-202 Method 106	MIL-STD-202 Method 106	MIL-STD-202 Method 106	MIL-STD-202 Method 106
Salt Spray	MIL-STD-202 Method 101 Cond. B	MIL-STD-202 Method 101 Cond. B	MIL-STD-202 Method 101 Cond. B	MIL-STD-202 Method 101 Cond. B	MIL-STD-202 Method 101 Cond. B	MIL-STD-202 Method 101 Cond. B	MIL-STD-202 Method 101 Cond. B
Product Specification	—	108-12001	108-12046	—	—	108-12032	—

¹Assembled to cable with polytetrafluorethylene dielectric.

²Assembled to cable with polyethylene dielectric.

TNC Connectors, 50 Ohm (Continued)

**Bulkhead Jacks for
Semi-Rigid Cable,
Rear Mount**



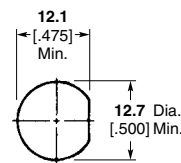
Maximum Panel Thickness **6.35** [.250]

**Recommended
Panel Cutout**

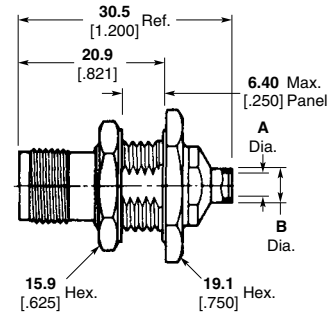
H = **17.45** [.687] max. across flats, **20.32** [.800] max. across points.

RG/U Cable	Termination Type	Center Contact Plating	Body Plating	Dielectric	Style	Dim. L	Part No.
402 Semi-Rigid/ 3.66 [.141]*	Crimp	Gold	Nickel	PTFE	MIL Type	25.4 1.000	228502-1

*Tooling—Hand Tool 59980-1, Requires (2) Crimping Dies 312253-1 and (1) Locator 220220-2.



**Recommended
Panel Cutout**

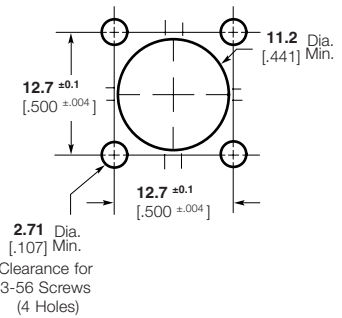
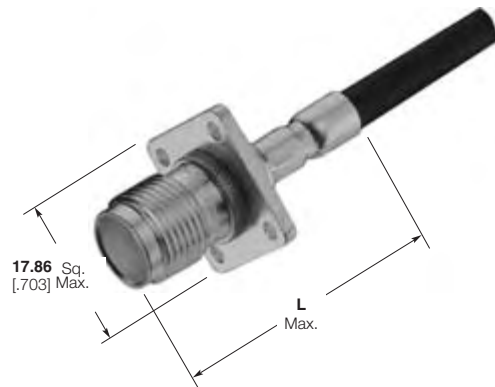


RG/U Cable	Termination Type	Center Contact Plating	Body Plating	Dielectric	Style	Dim. A	Dim. B	Part No.
RG 402/U 3.66 [.141]	Solder	Gold	Pass. Stainless Steel	Solid PTFE	MIL Type	3.7 .144	4.6 .180	1057676-1
RG 405/U 2.16 [.085]	Solder	Gold	Pass. Stainless Steel	Solid PTFE	MIL Type	2.3 .089	3.0 .120	1057679-1

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

TNC Connectors, 50 Ohm (Continued)

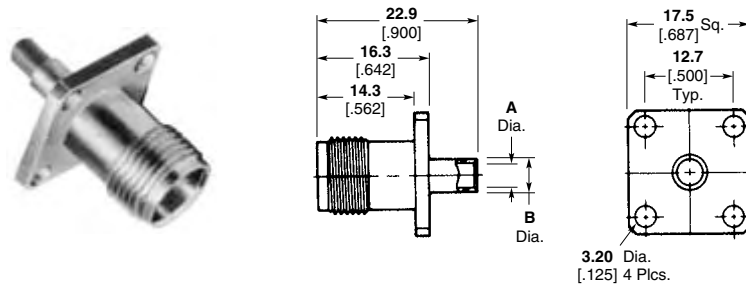
Panel Jacks, Crimp



Recommended Panel Cutout

RG/U Cable	Termination Type	Center Contact Plating	Body Plating	Dielectric	Style	Dim. L	CERTI-CRIMP Hand Tool With Integral Die	Part No.
58, 58A, 58B, 58C	Crimp	Gold	Silver	PTFE	MIL Type	34.93 1.375	220045-2	225348-2

Panel Jacks for Semi-Rigid Cable

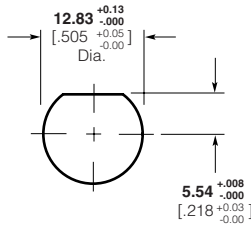


RG/U Cable	Termination Type	Center Contact Plating	Body Plating	Dielectric	Style	Dim. A	Dim. B	Part No.
RG 402/U 3.66 [.141]	Solder	Gold	Gold	PTFE	MIL Type	3.7 .144 Min.	4.6 .180	1057697-1
RG 405/U 2.16 [.085]	Solder	Gold	Gold	PTFE	MIL Type	2.3 .089 Min.	3.0 .120	1057699-1

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

TNC Connectors, 50 Ohm (Continued)

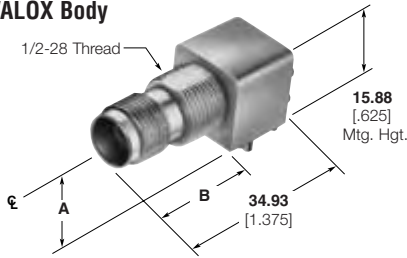
**Right-Angle PC Board/
Panel Mount Jacks**



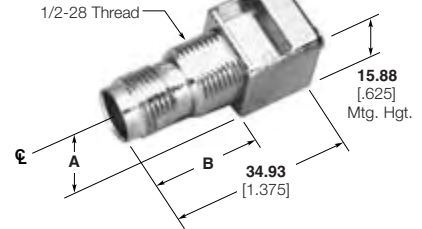
Maximum Panel Thickness 6.1 [.240]

**Recommended
Panel Cutout**

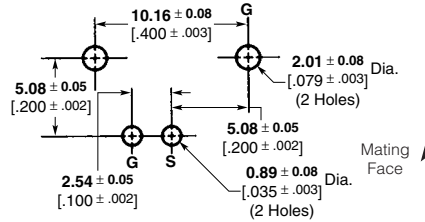
VALOX Body



Metal Body



Body Material	Ω	Center Contact Plating	Dimensions		Part Numbers
			A	B	
VALOX, White	50	Gold	8.56 .337	21.21 .835	5227818-1
Metal	50	Gold	8.26 .325	20.83 .820	5227839-1



(Top View)

Recommended PC Board Layout

**Vertical PC Board/
Panel Mount Jacks**

*2-56 Self-Tapping Screws:
For 1.57 [3/32] or greater panel thickness
Part No. **221108-2**
For less than 1.57 [3/32] panel thickness
Part No. **221108-4**

Lockwasher and Jam Nut

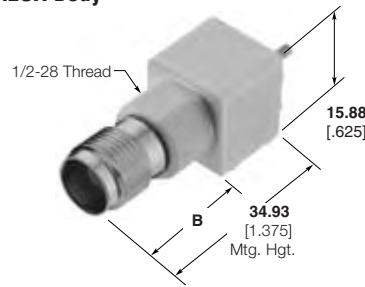


Part No.
1-329632-2

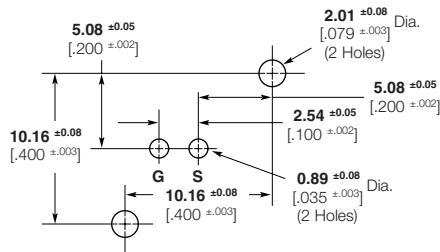


Part No.
1-329631-2

VALOX Body



Body Material	Center Contact Plating	Dimension B	Part Number
VALOX, White	Gold	21.21 .835	5227820-1



(Top View)

Recommended PC Board Layout

VALOX is a trademark of General Electric Company.

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

TNC Connectors, 50 Ohm (Continued)

**Right-Angle PC Board/
Mount Jacks**

Plating

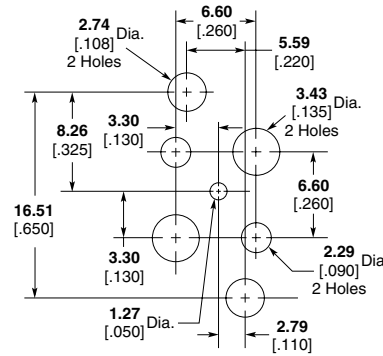
Body — Nickel

Center Contact — Gold

Dielectric — PTFE



Part No. 5413933-1



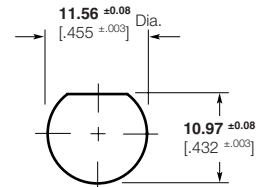
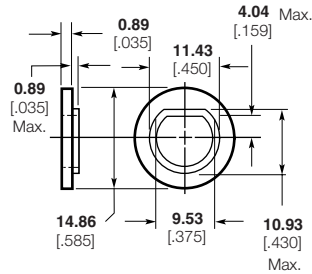
Recommended PC Board Cutout

Bulkhead Solder Jacks

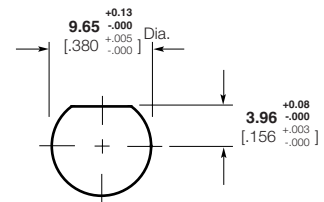
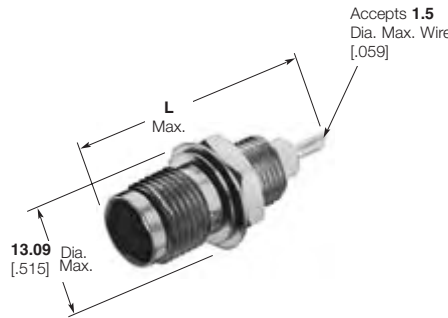
Insulation Bushing

Material — Nylon

Part No. 227223-1



**Recommended Panel Cutout
(Bushing)**



**Recommended
Panel Cutout
(Jack)**

Panel Thickness Refer to chart below.

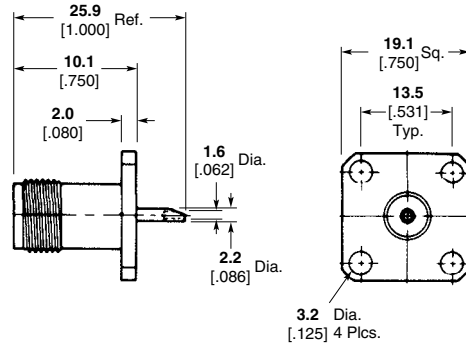
Body Plating	Center Contact Plating	Dielectric	Dim. L	Panel Thickness	Part Number
Nickel	Gold	VALOX	33.33 1.312	1.17-6.35 .046-.250	5227764-2

VALOX is a trademark of General Electric Company.

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

TNC Connectors, 50 Ohm (Continued)

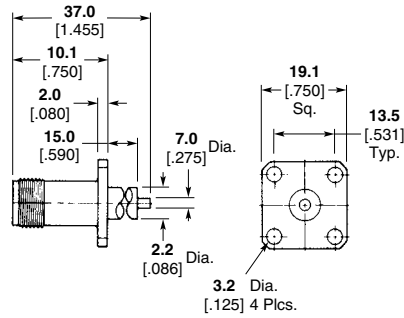
Panel Mount Jack Receptacles



Shell	Part No.
Nickel Plated Brass	1057775-1 ¹

¹Captured Center Contact

Flange Mount Receptacles



Shell	Part No.
Nickel Plated Brass	1057780-11

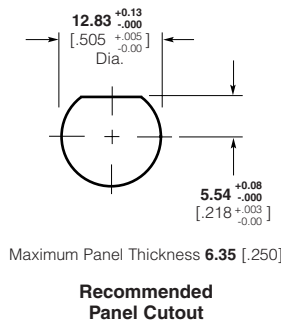
¹Captured Center Contact

Jack-Jack Adapter



Center Contact Plating	Body Plating	Dielectric	Part No.
Gold	Nickel	Polypropylene	5221325-1

Bulkhead Jack-Jack Adapter



Center Contact Plating	Body Plating	Dielectric	Part No.
Gold	Nickel	Acetal	221500-1

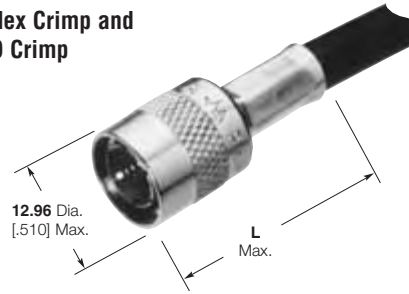
Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

TNC Connectors, 75 Ohm

Plugs, Crimp

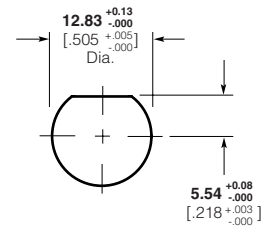
These connectors have been designed for optimum performance and have a true 75 ohm impedance the complete length of the connector. The crimp die tooling listed below is different from the equivalent 50 ohm connectors.

Hex Crimp and O Crimp



RG/U Cable	Termination Type	Center Contact Plating	Body Plating	Dielectric	Style	Dim. L	Interchangeable Dies for PRO-CRIMPER Hand Tool 354940-1 or PRO-CRIMPER Adapter 679304-1	Part No.
179, 179A, 179B, 187, 187A, BELDEN 9221	O Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	27.79 1.094	318451-2	5221506-3
AT&T 735A	O Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	29.46 1.160	58174-1	5221506-5
302 BELDEN 88241 89269 Hi-Temp 62A Times PL62, BERK-TEK BTDC-59, BTDC-62	Hex Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	31.75 1.250	58425-1	5413591-1
BELDEN 8281 9141, 9231	O Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	32.9 1.295	58538-1	5221506-2

Bulkhead Jack, Crimp



Maximum Panel Thickness 6.35 [.250]

Recommended Panel Cutout

RG/U Cable	Termination Type	Center Contact Plating	Body Plating	Dielectric	Style	Dim. H	Tooling	Part No.
210, 62, 62A, 62B, 59, 59A, 59B, BELDEN 9291, 9209, 9169, 89269	O Crimp	Gold	Nickel	Polymethyl-pentene	Commercial	11/16 across flats, 20.32 .800 max. across points	Use Hand Tool 354940-1 with Die Set 58536-1	221509-1

AT&T is a trademark of AT&T Corporation.

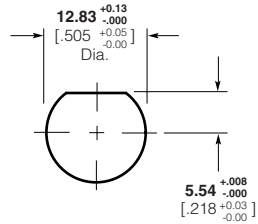
BELDEN is a trademark of Belden Wire and Cable Company.

BERK-TEK is a trademark of Nexans, Inc.

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

TNC Connectors, 75 Ohm (Continued)

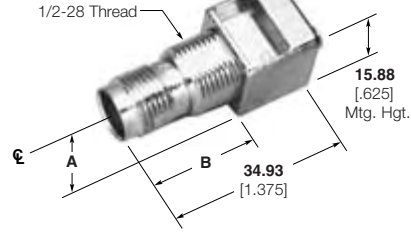
**Right-Angle PC Board/
Panel Mount Jacks**



Maximum Panel Thickness **6.1** [.240]

**Recommended
Panel Cutout**

Metal Body



Body Material	Ω	Center Contact Plating	Dimensions		Part Numbers	
			A	B	Without Mounting Posts	With Mounting Posts
Metal	75	Gold	8.26 .325	20.83 .820	—	5413506-1

**Bulkhead Jack-Jack
Adapter**



Center Contact Plating	Body Plating	Dielectric	Part No.
Gold	Nickel	Polymethylpentene	414396-1

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.