Specifications for "N" Connectors

N Series connectors are medium sized, and weatherproof. The coupling method utilizes a screw system designed for use at frequencies up to microwave. These connectors are particularly useful where precision performance is necessary such as in test equipment, satellite communications, MATV, computer LAN systems, and other high-tech electronic equipment. Because of the quality manufacturing tolerances these connectors ensure excellent performance throughout 0-18GHz.

MATERIALS

Connector Parts	Material	Equivalent Standard †
Connector Body and Parts	Brass	ISOCuZn38Pb2 Body Part
Male Contact Pin	Brass	QQ-B-626
Outer Contact	Brass	QQ-B-750
Socket Contact	Beryllium Copper Phosphor Bronze	QQ-C-530/MIL-H-7199 CuBe2
Crimp Ferrule	Annealed Copper	QQ-C-576
Insulators, Standard Versions	Teflon Delrin	L-P403/BS4271 Grade B
Rubber Gaskets	Silicone Rubber	ASTM-E1418PSI
Plating	Nickel (Silver Optional)	MIL-G-45204

ELECTRICAL

Requirement	Performance	Test † Specification
Impedance	50 Ω 75Ω	-----
Frequency Range	0-18 GHz 0-1 GHz	-----
VSWR	1.30 Max.	MIL- C-39012
RF Insertion Loss	0.2 db Max. at 3 GHz	MIL- C-39012
RF Leakage	-90 db Min. at 2-3 GHz	MIL- C-39012
Test Voltage (At Sea Level)	2500V rms	MIL-STD-202
Working Voltage (At Sea level)	1000V rms	MIL-STD-202
Insulation Resistance	5000 Megohm Min.	MIL-STD-202
Contact Resistance	3 Megohm Max.	MIL-C-39012

MECHANICAL & ENVIRONMENTAL

Requirement	Performance	Test † Specification
Durability	500 Insertions & Extractions Min.	MIL-C-39012
Shock	100 G	MIL-STD-202
Vibration	20 G from 80-2000 Hz	MIL-STD-202

Cable Retention (Cable Types)	60 lbs. Minimum Pull Test	MIL-C-39012
Coupling Nut	100 lbs. Maximum	MIL-C-39012
Temperature Range	Teflon: -55 to +199 C Delrin: -40 to +85 C	----------
Moisture Resistance	Continuous Test	MIL-STD-202
Salt Spray	48 Hours	MIL-STD-202

†Products are made to conform to the Mil standard but are for commercial applications and not QPL

o *"N" Connectors*

Cable Plugs

"N" cable plugs are available in solder/clamp, solder/crimp, and twist-on versions to satisfy the installer's preference. Standard cable sizes are facilitated with these connectors for applications from satellite TV to Ethernet LAN installations.

Part Number	RoHS	Description	RG/U Cable	Fig. No.
110A108A	☑	Solder/Clamp Plug	6A	88
110A108B	☑	Solder/Clamp Plug	8, 213	88
110A108F	☑	Solder/Clamp Plug	58	88
110A108G	☑	Solder/Clamp Plug	59, 62	88
110A205A	☑	Solder/Crimp Plug	6A	89
110A205B	☑	Solder/Crimp Plug	8, 213	89
110A205F	☑	Solder/Crimp Plug	58	89

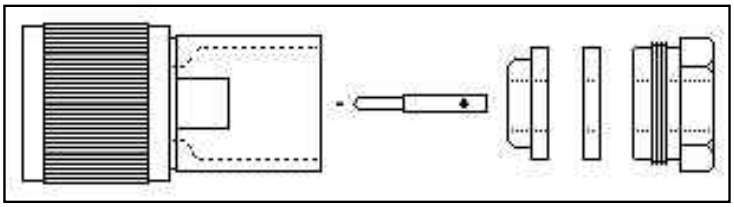

Fig. 88

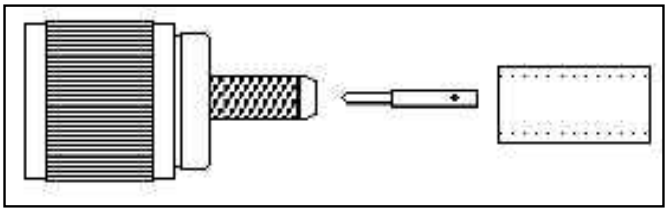

Fig. 89

110A205G	☑	Solder/Crimp Plug	59, 62	89
110A404B2	☑	Twist-On Plug	Thick-Net	90
110A404B3	☑	Twist-On Plug	Thick-Net Plenum	90

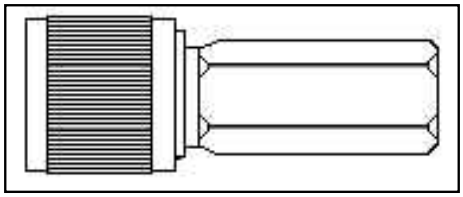

Fig. 90

☑ RoHS compliant

Jacks

Two cable jacks and one panel jack style are available as standard items. Other types are available as special order items. The cable jacks utilize the clamp/solder method of assembly and the panel jack will facilitate any cable size by soldering the center conductor to the connector's solder-cup contact.

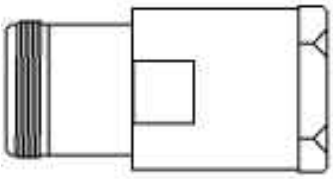

Fig. 91

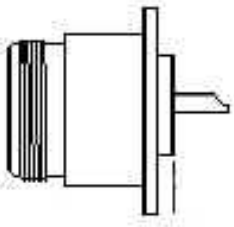

Fig. 92

Part Number	RoHS	Description	RG/U Cable	Fig. No.
120A108B	☑	Cable Jack, Solder Clamp	8A, 11	91
120A108F	☑	Cable Jack, Solder Clamp	58, 58A, 58B	91
120A108G	☑	Cable Jack, Solder Clamp	59, 62	91
127A577	☑	Panel Jack, Solder Cup	Any	92

V-Bite ® PC Edge Mount

☑ RoHS compliant

The V-Bite ® is an industry award winning design PCB connector with all the advantages a designer could want. It edge mounts to the board which offers the lowest profile and utilizes very little PCB real estate. It lends itself to surface mount and through-hole soldering techniques. There are versions for IR and convection reflow soldering. Because the connector locks into place both above and below the PCB it disperses rotational torque relief to the board and not the solder points. The V-Bite ® design offers the lowest VSWR ratings due to the straight through-put contact design. No right angles for reflection. Available in 50 and 75 ohm, threaded and non-threaded. Other options for PCB thickness available. Other interfaces available. See "F", BNC Twin, TNC and N sections.

Part Number	RoHS	Description	Fig. No.
161V504E	☑	N type Edge Mount Jack (TFE Insul for reflow)	98
161V504EFT	☑	N type Edge Mount Jack w/ Flange and Threads (TFE Insul for reflow)	99
162V504E	☑	N Type Edge Mount Plug (TFE Insul for reflow)	100

☑ RoHS compliant