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 excellenct 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	QQ-C-530/MIL-H-7199
	Phosphor Bronz	CuBe2
Crimp Ferrule	Annealed Copper	QQ-C-576
Insulators, Standard Versions	Teflon	L-P403/BS4271
	Delrin	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

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 satallite TV to Ethernet LAN installations.

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

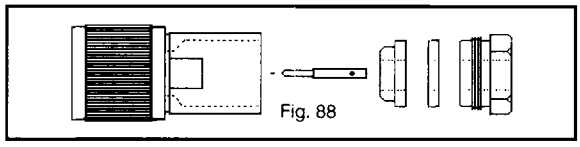
Fig. 88

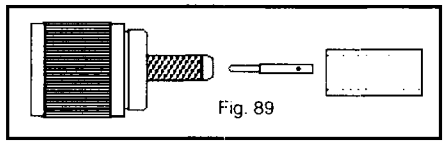
Fig. 89

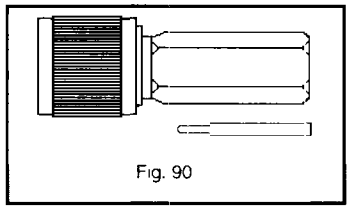
Fig. 90

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.

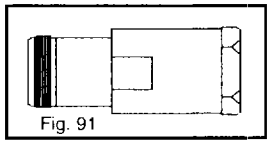
Fig. 91

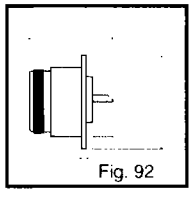
Fig. 92

Part Number	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

Adapters & Terminator

Standard configurations of adapters are machined brass with attractive nickel plating. All contacts are gold plated brass (males) and phosphor bronze (females).

Part Number	Description	Fig. No.
132A505	Female/Female Inline	97A
143A505	F/M/F "T" Adapter	93
145A505	F/F/F "T" Adapter	94
151A505	F/M Right Angle Adapter	95
TC1028	50Ω Female Thick-net Term nator	96

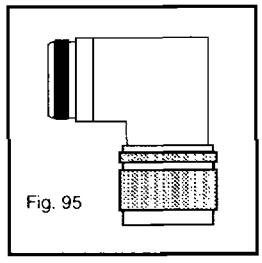
Fig. 95

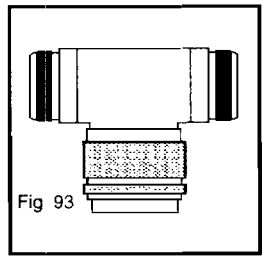
Fig 93

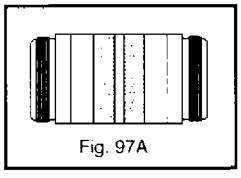
Fig. 97A

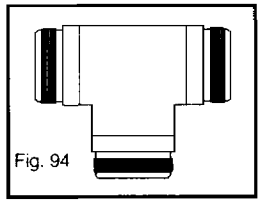
Fig. 94

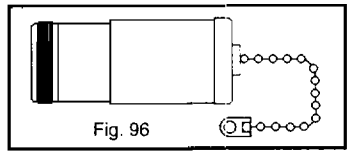
Fig. 96