

0720-01151 30F5

KINGS

N
PLUGS

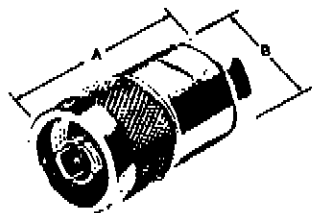


FIGURE 1

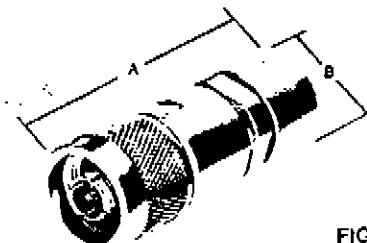


FIGURE 2

CONVENTIONAL CONSTRUCTION

CABLE GROUP	KING'S PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS				CABLING	
	SILVER FINISH (or as noted)	TR-S FINISH				A	B	CBL. TRIM CODE			
						In	mm	In	mm		
DE	KN-59-45			1	Stainless Steel, Gold Plated, Wire Holes	1.39	35.3	0.78	19.8	1014	
DE	UG-536A/U			1	Wire Holes	1.41	35.8	0.78	19.8	1014	
DE	UG-536B/U	KN-59-121		1	Wire Holes	1.40	35.6	0.78	19.8	1014	
DE	UG-536C/U			1		1.41	35.8	0.78	19.8	1014	
G	UG-603A/U	KN-59-213		1		1.38	35.1	0.78	19.8	1015 3	
K	KN-59-294		M39012/01-0101	1	Captive Contact, Wire Holes	1.50	38.1	0.79	20.1	1016	
K	UG-18C/U			1		1.50	38.1	0.78	19.8	1024	
MN	KN-59-178	KN-59-176-M06	M39012/01-0035	1	Captive Contact, Wire Holes	1.50	38.1	0.78	20.1	1016	
MN	UG-21B/U	KN-59-207		1		1.81	46.0	0.78	19.8	R	
MN	UG-21C/U	KN-59-208		1		1.75	44.5	0.78	19.8	R	
MN	UG-21D/U	KN-59-209		1	Wire Holes	1.50	38.1	0.78	20.1	1024	
MN	UG-21E/U	KN-59-106		1	Wire Holes	1.50	38.1	0.79	20.1	1024	
MN	UG-21F/U			1	Wire Holes	1.50	38.1	0.79	20.1	1024	
MN	UG-21G/U			1		1.50	38.1	0.78	19.8	1024	
MN	UG-94A/U			1	70 Ohm Mating, Beryllium Copper Outer Contact	1.83	46.5	0.78	19.8	R	
MN	KN-59-195			1	Capt. Cont., Wire Holes, Passivated Stainl. Steel	1.50	38.1	0.78	19.8	1016	
MN	KN-59-199			1	Passivated Stainless Steel	1.50	38.1	0.78	19.8	1024	
MN	UG-1185/U	KN-59-192		1	Captive Contact, Wire Holes	1.50	38.1	0.78	19.8	1016	
MN	UG-1185A/U	KN-59-270		1	Captive Contact, Wire Holes	1.50	38.1	0.78	19.8	1016	
R	KN-59-177		M39012/01-0015	1	Captive Contact, Wire Holes	1.50	38.1	0.79	20.1	1017	
R	UG-204C/U			1		1.67	42.4	0.78	22.4	1017	
T	KN-59-295		M39012/01-0134	1	Captive Contact, Wire Holes				33.3	1016	
U	KN-59-299		M39012/01-0125	2	Captive Contact, Wire Holes	2.11		0.78	19.8	1608	
U	UG-941A/U	KN-54-10-M06		2		2.06	52.3	0.78	19.8	1601	
U	UG-941B/U			2		2.06	52.3	0.78	19.8	1601	
U	UG-1003/U			1		1.75	44.5	0.78	19.8	R	

Z - request from factory.

Sold



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DESCRIPTION/SPECIFICATIONS/INTERFACE DIMENSIONS

N series RF connectors are high quality medium size connectors for coaxial cables from .350" to .450" OD, however designs accommodate .078" to .675" cables. The N connector is a 50 ohm constant impedance connector. VSWR is consistently low throughout a frequency range of 0 to 11 GHz. The N connector uses an air dielectric seal for center contacts a 70 ohm constant impedance version (noted in the listings). The 70 ohm connector will not mate with the 50 ohm connector.

The N connector is a weatherproof design and with its threaded coupling insures low noise and withstands shock and vibration.

The N connector is the most popular medium size connector, widely used in test equipment. Items qualified to MIL-C-39012 are included in the listings and also appear in the latest QPL list for MIL-C-39012.

SPECIFICATIONS

ELECTRICAL

Nominal Impedance	50 ohms
Frequency Range	0 to 11 GHz
Voltage Rating	1000 volts rms
Dielectric Withstanding Voltage	2500 volts rms
Insulation Resistance	5000 megohms
VSWR (MIL-C-39012 cable connectors)	1.30 max. 5-11 GHz
Contact Resistance (MIL-C-39012 cable connectors)	
Center Contacts	1.0 milliohms
Outer Contacts (5 per plate)	.2 milliohms
Insertion Loss (MIL-C-39012 cable connectors)	.15 dB max at 9 GHz

ENVIRONMENTAL

Temperature Range	PTFE Insulators: -85°F to +329°F (-65°C to +165°C) Rexolite Insulators: -67°F to +185°F (-55°C to +85°C)
Vibration	MIL-STD-202 Method 204, test condition B
Shock	MIL-STD-202 Method 213, test condition I
Corrosion (salt spray)	MIL-STD-202 Method 101, test condition B
Moisture Resistance	MIL-STD-202 Method 106
Hermetic Seals	Leakage shall not exceed 1 x 10 ⁻⁶ cc/sec of tracer gas at atmospheric pressure.
Compression Seals	Gasketed units show no leakage at 50 psi.

MECHANICAL

Mating	.625-24 threaded coupling per MIL-C-39012 or MIL-STD-348 as applicable.
Cable Retention Non-Crimp	75 pounds min.
Crimp	50 to 90 lbs depending on cable size.
Center Contact Retention	15 lbs. min. axial force except 6 lbs. min. RG400 and RG42. Applicable to capillated center contact connectors only.
Connector Durability	500 cycles min.

MATERIAL

Except as noted in connector listings

Bodies & Fittings	1. Brass, QQ-B-626, Alloy 360, 1/2 hard 2. Stainless Steel, QQ-S-763
Crimp Sleeves	Commercial Bronze, Alloy 220
Male Center Contacts	Brass, QQ-B-626, Alloy 360, 1/2 hard
Female Center Contacts	Brass, Alloy 360, HT QQ-C-360, HT
Male Outer Contacts	Brass, Alloy 360, HT QQ-C-360, HT
Insulators	PTFE, AS-1457
Gaskets & Seals	Silicone Rubber, ZZ-R-765a, Class Va, Grade 3F

FINISHES

Contacts	1. Standard finish on all MIL-C-39012 items .0002" (.0025 mm) min. gold plate, QQ-S-45204B. 2. All other items .0002" (.005 mm) min. silver plate QQ-S-365A, plus TR-4 [®] electrolytic chromate treatment, unless otherwise noted.
Bodies & Fittings	1. Standard finish .0002" (.005 mm) min. silver plate electro-deposited per QQ-S-365A plus Kings TR-4 [®] electrolytic chromate treatment. 2. TR-5 [®] - Kings tarnish resistant alloy electrodeposit finish.

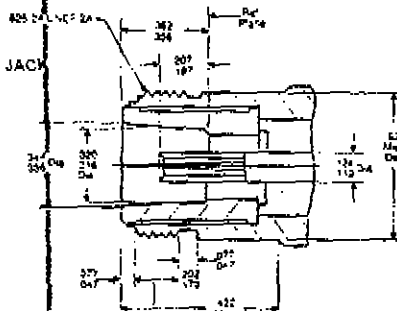
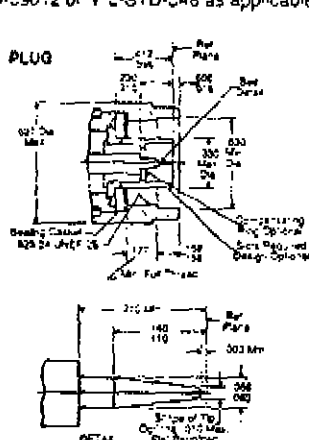
CABLE GROUPS - RG/U, M/7	
D	50' 56A-58C, 141, 147A, M1705, RG58, M1701, RG59
E	E-1 55A, 142, 142A, 223, 430, M1701, RG72, M1702, RG42, M1712, RG75
	E-2 55' 55B, 142B, M1704, RG72, M1703, RG42
F	F-1 56' 56A, 160, 62, 62A, 62B, 62C, 210, M1725, RG39, M1730, RG43, M1731, RG310
	F-2 71, 21A, 21B, M1730, RG71
G	G-1 57' 57A, 171, 171A, M1703, RG31E, M1715, RG51
	G-2 57' 57B, 171, 171B
H	H-1 143, 143A, 143B, 222, M1712, RG20A, M1712, RG212, M1712, RG21
I	I-1 8, 8A, 213, M1774, RG213
	I-2 11, 11A, M1775, RG11
J	J-1 9, 9A, 9B, 214, M1773, RG214
	J-2 13A, 215, M1777, RG216
K	K-1 225, M17127, RG235
L	L-1 393, M17127, RG235
M	M-1 14, 14A, 217, 224E1, M1708, RG217, M1716B, RG223
N	N-1 17A, 218, 219, M1709, RG218, M1709, RG219
O	O-1 10, 12, 215, M1774, RG215, M1775, RG12

For these cables, crimping the center contact is not recommended when crimp contact is indicated.

Minimize

INTERFACE

Per MIL-C-39012 or MIL-STD-348 as applicable.



Specifications are typical for straight plug configurations designed to MIL-C-39012 and may not apply to all connectors.

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