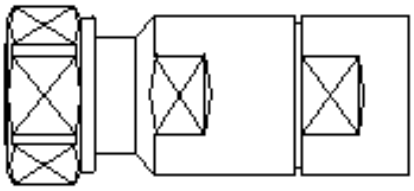
GM_RW12N_01_CC_21070031

4.3/10 Male for RW12N, Clamp



1Product Structure

	Designation	Material	Plating
1	Inner Conductor	Phosphor Bronze	Silver - Plated
2	Insulator	Polytetrafluoroethene (PTFE)	White
3	Outer Conductor	Brass	TriMetal - Plated
4	Clamp Nut	Brass	TriMetal - Plated
5	Coupling Nut	Brass	TriMetal - Plated
6	Cable Clamp	Phosphor Bronze	TriMetal - Plated
7	O-Ring	Silicone Rubber	Red
8	Dust Cap	Polypropylene (PP)	Blue
9	Jelly	Vaseline	White

2 General Specifications

Interface		4.3/10 Male
Body Style		Straight
Contact Attachment	Inner	Captivated
	Outer	Clamp
Standard		IEC 60169-54
Cable Type		RW12N (1/2” & 1/2”L)
Logo		“KINGSIGNAL” etched by Laser
Weight		100±3 g

3 Electrical Specifications

Impedance		50 Ohm		
Operating Frequency Band		0 - 3000 MHz		
Insertion Loss, Typical		≤ 0.05×√F(GHz) dB		
Return Loss (VSWR)		DTF	Typical	Max
	0 - 3000 MHz	≤ -28.3 dB (1.08)	≤ -23.1 dB (1.15)	≤ -21.7 dB (1.18)
	698 - 960 MHz	≤ -36.6 dB (1.03)	≤ -28.3 dB (1.08)	≤ -26.4 dB (1.10)
	1710 - 2170 MHz	≤ -32.3 dB (1.05)	≤ -26.4 dB (1.10)	≤ -24.3 dB (1.13)
	2300 - 2400 MHz (Optional)	≤ -32.3 dB (1.05)	≤ -26.4 dB (1.10)	≤ -24.3 dB (1.13)
	2496 - 2690 MHz (Optional)	≤ -32.3 dB (1.05)	≤ -26.4 dB (1.10)	≤ -24.3 dB (1.13)
3rd Order Intermodulation (2x43 dBm)			≤ -160 dBc (-117dBm)	≤ -155 dBc (-112dBm)
Contact Resistance	Inner Conductor	≤ 1.0 mOhm		
	Outer Conductor	≤ 1.0 mOhm		
Insulation Resistance		≥ 5000 MOhm		
Average Power		≥ 700 W at 1 GHz		
		≥ 500 W at 2 GHz		
Operating / Test Voltage (50Hz AC)		≥ 1800 / 2500V		
Shielding Effectiveness		≥ 120 dB at DC to 6 GHz		

4 Mechanical Specifications

Interface Durability	100 Cycles
Installation Durability	25 Cycles
Connector Retention Tensile Force	≥ 890 N (200 lbf)
Connector Retention Torque	≥ 5.5 N.m (48.00 lb.in)
Clamp Nut Proof Torque	≥ 25 N.m (307.30 lb.in)
Center Contact Tensile Force	≥ 30 N (7.020 lbf)
Center Contact Torque	≥ 5 N.cm (0.43 lb.in)
Coupling Nut Retention Force	≥ 450 N (100.00 lbf)
Coupling Nut Proof Torque	≥ 7 N.m (86.05 lb.in)

5 Environment Specifications

Operating Temperature	-55°C to +90°C
Storage Temperature	-55°C to +90°C
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Corrosion Test Method	ISO 21207, Method B
Damp Heat Resistance Test Method	IEC 61169-1, Sub-clause 9.4.3
Thermal Shock Test Method	IEC 61169-1, Sub-clause 9.4.4
Vibration Test Method	IEC 61169-1, Sub-clause 9.3.3
Mechanical Shock Test Method	IEC 60068-2-27

6 Marking and Package Requirements

According to the Annex 1 and Packaging Specifications

7 Banned and Restricted Substances

RoHS 2002/95/EC	Compliant by Exemption

8 Document Revision Information

Revision	Description
A0	First revision
A1	Changed the Forums
B0	Size updated