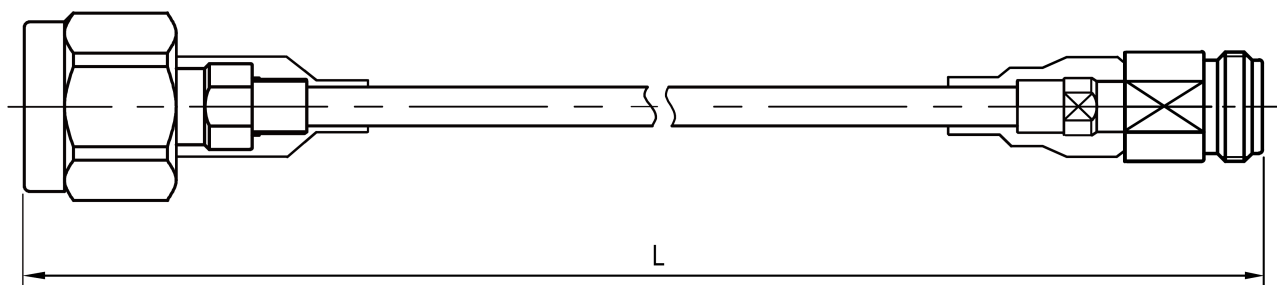




Ultra-Low Loss Phase Stable Cable Assembly, RCA510-NMNF-L

N Male to N Female, DC-18GHz, $\phi 5.1\text{mm}$

Dimensions(mm) Tolerance $\pm 1\%$



Electrical & Environmental

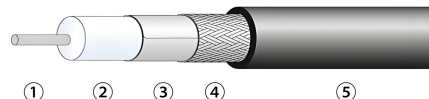
Frequency Range	DC-18GHz, 50 Ohms
Avg Power@25°C	208W @18GHz, 369W @6GHz
Insertion Loss@1M	1.54 dB Max @18GHz
VSWR	1.25 Max
Dielectric Constant	1.45
Capacitance	80 pF/m
Inductance	0.18 uH/m
Velocity of Propagation	83%
Shielding Effectiveness	90dB Min
Withstand Voltage	1500V@DC
Temperature Phase	750 PPM Max
OT	-55~+165°C

Product Information

Product Number	RCA510-NMNF-L
Product Type	Ultra-Low Loss Phase Stable Cable Assembly
Cable	RCA510
Connector	N Male to N Female
Connector Body	Passivated stainless steel
Center Contact	Gold plated beryllium copper
Bend Radius	25.50mm
Bend Radius (Repeated)	51.00mm

Customized services: including connectors, length, phase matching/tracking, time delay, and better electrical performance.

RCA510 Structure Characteristics



Structure	Material	$\Phi D(\text{mm})$
1.Center Conductor	Single-core Silver-plated Copper	1.45
2.Dielectric	LD-PTFE	3.99
3.Inner shield	Silver-plated Copper Tape Wrapping	4.19
4.Outer Shield	Silver-plated Copper Wire Braiding	4.60
5.Jacket	Gray FEP	5.10

RCA510 Replacement Model

Micro-Coax	UFB205A
ZDecl	ZLB510

Product Selection and Loss Index @25°C

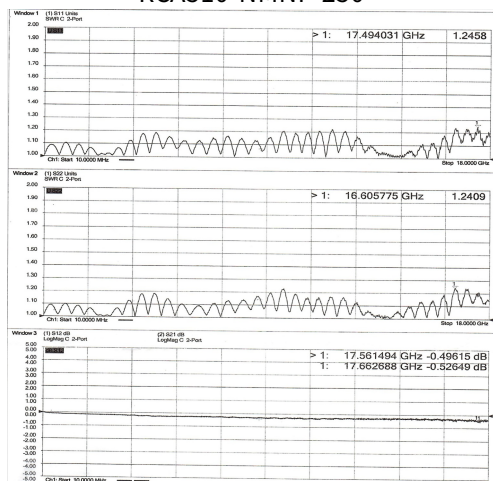
RFTOP P/N	3GHz	10GHz	18GHz
RCA510-NMNF-250	0.6 dB	0.7 dB	0.76 dB
RCA510-NMNF-300	0.62 dB	0.73 dB	0.81 dB
RCA510-NMNF-600	0.75 dB	0.97 dB	1.12 dB
RCA510-NMNF-1M	0.91 dB	1.28 dB	1.54 dB
RCA510-NMNF-2M	1.32 dB	2.06 dB	2.58 dB
RCA510-NMNF-4M	2.14 dB	3.63 dB	4.65 dB



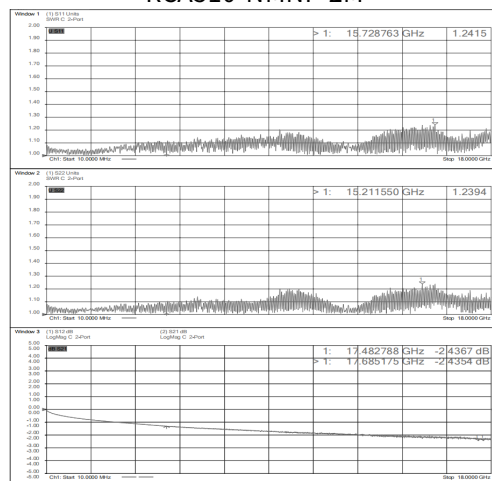
Ultra-Low Loss Phase Stable Cable Assembly, RCA510-NMNF-L N Male to N Female, DC-18GHz, ø5.1mm

Typical Test Data

RCA510-NMNF-250



RCA510-NMNF-2M



RCA510-NMNF-4M

