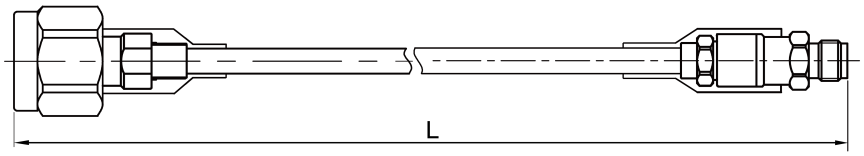


Ultra-Low Loss Phase Stable Cable Assembly, RCA510-NMSF-L
N Male to SMA Female, DC-18GHz, ø5.1mm

01

Dimensions(mm) Tolerance±1%



02

Electrical & Environmental

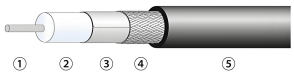
Frequency Range	DC-18GHz, 50 Ohms
Avg Power@25℃	141.4W @18GHz
I L@1M	1.44 dB Max @18GHz
VSWR	1.3 Max , Typ 1.25
Dk	1.45
Capacitance	80 pF/m
Inductance	0.18 uH/m
VOP	83%
SE	90dB Min
Voltage	1500V@DC
Temp. Phase	750 PPM Max
OT	-40~+125℃

03

Product Information

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

RCA510 Structure Characteristics



Structure	Material	ΦD(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

Product Selection and Loss Index @25℃

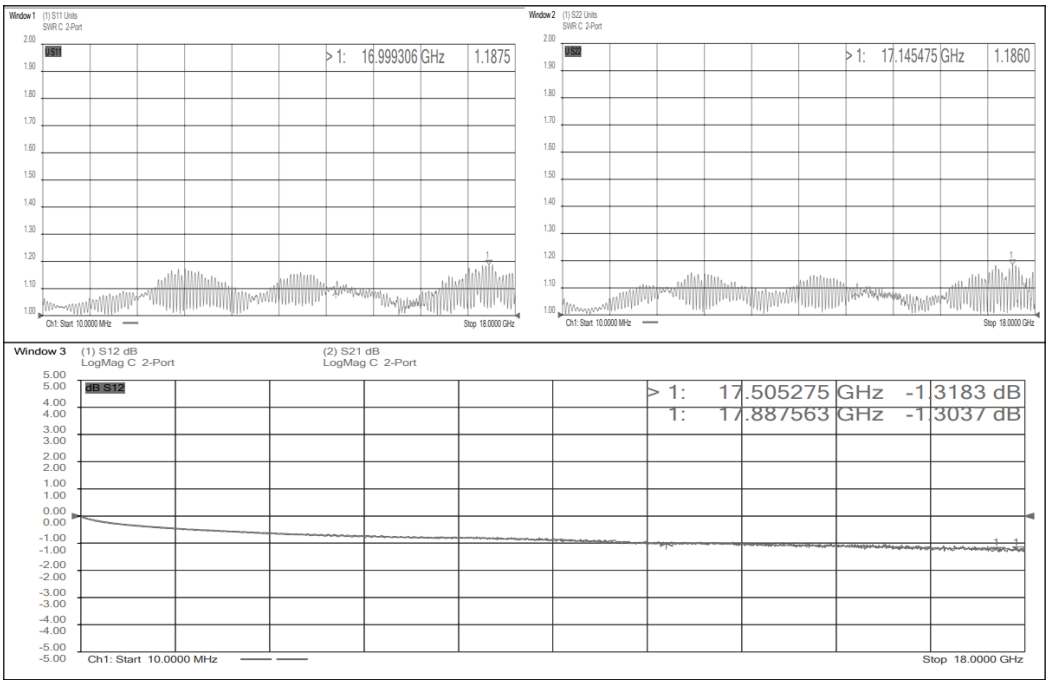
RFTOP P/N	3GHz	10GHz	18GHz
RCA510-NMSF-600	0.65 dB	0.87 dB	1.02 dB
RCA510-NMSF-1M	0.81 dB	1.18 dB	1.44 dB
RCA510-NMSF-1.5M	1.01 dB	1.57 dB	1.96 dB
RCA510-NMSF-2M	1.22 dB	1.96 dB	2.48 dB
RCA510-NMSF-4M	2.04 dB	3.53 dB	4.55 dB



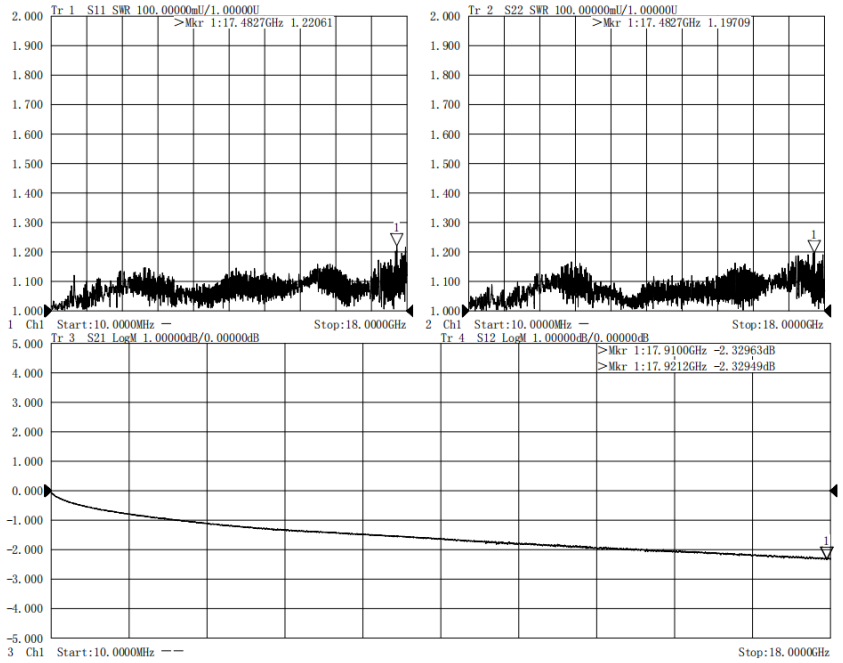
Ultra-Low Loss Phase Stable Cable Assembly, RCA510-NMSF-L
N Male to SMA Female, DC-18GHz, ø5.1mm

04 Typical Test Data

RCA510-NMSF-1M



RCA510-NMSF-2M





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

05 Typical Test Data

RCA510-NMSF-4M

