



CABLE ASSOCIATES
INCORPORATED

NIGHTHAWK-1010

Series RF Cable

Key Characteristics

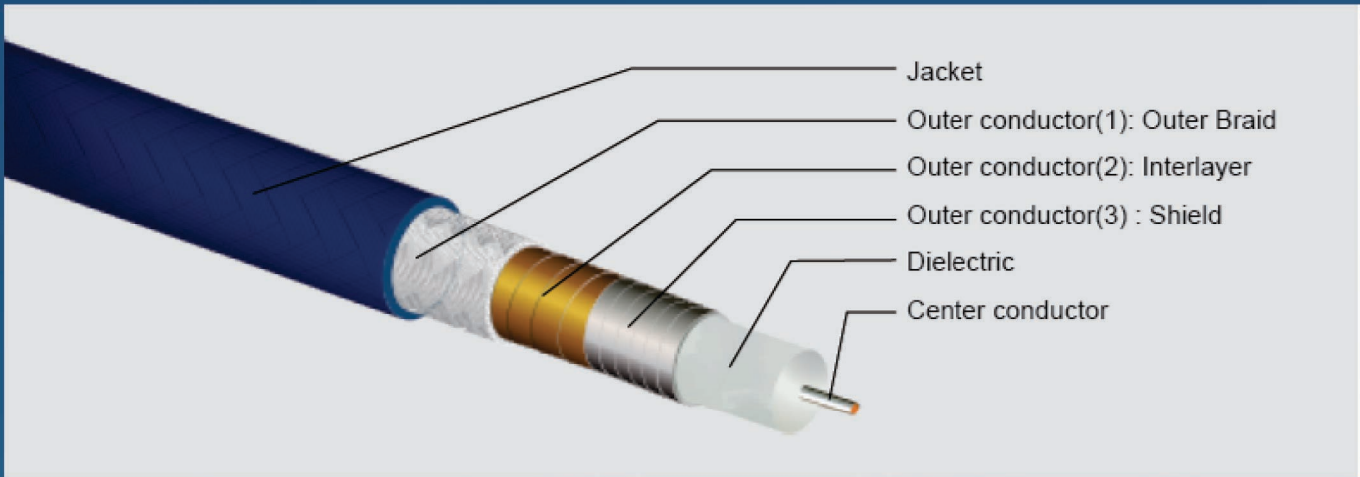
- Extruded Solid Low Loss Coaxial Cable
- Rigid Long Neck SMA Male Connector for Proven Durability
- 3 Layer Adhesive Heat Shrink to Support SMA Connector
- Precision SMA Connector Rated to 26.5GHz
- Heat Shrink Temp Range from -55°C to 110°C
- Cable Rated to +200°C
- 1 Year Warranty

Applications

- General Lab Test RF Cable
- Military and Industrial
- R & D Labs
- Wide Temperature Range
- Environmental and Temperature Test Chambers
- RoHS Compliant
- DC-26.5GHz
- Custom Lengths Available



Coax Performance



Construction

Item	Material	Diameter	Remark
Center conductor	SPCW	0.94 mm	Solid
Dielectric	PTFE	2.00 mm	Extrude
Outer conductor (1)	SPC	3.19 mm	Flat Tape
Outer conductor (2)	PI	3.45 mm	Tape
Outer conductor (3)	SPC	3.99 mm	Braid
Jacket	FEP	4.95 mm	Blue

Electrical & Mechanical Data

Contents	Units	Results
Characteristic impedance	Ω	50
Operating frequency	GHz	26.5
Velocity propagation	%	70
Signal delay	ns/m	4.4
Capacitance	pF/m	89
Operating temperature	$^{\circ}\text{C}$	-55 $^{\circ}\text{C}$ to +200 $^{\circ}\text{C}$
Shield effectiveness	%	95%
Min. bending radius	mm	25

Return Loss (Typical Data)

Frequency (GHz)	Min. Loss (dB)
.05 ~ 3 GHz	28
3 ~ 12 GHz	23
12 ~18 GHz	20

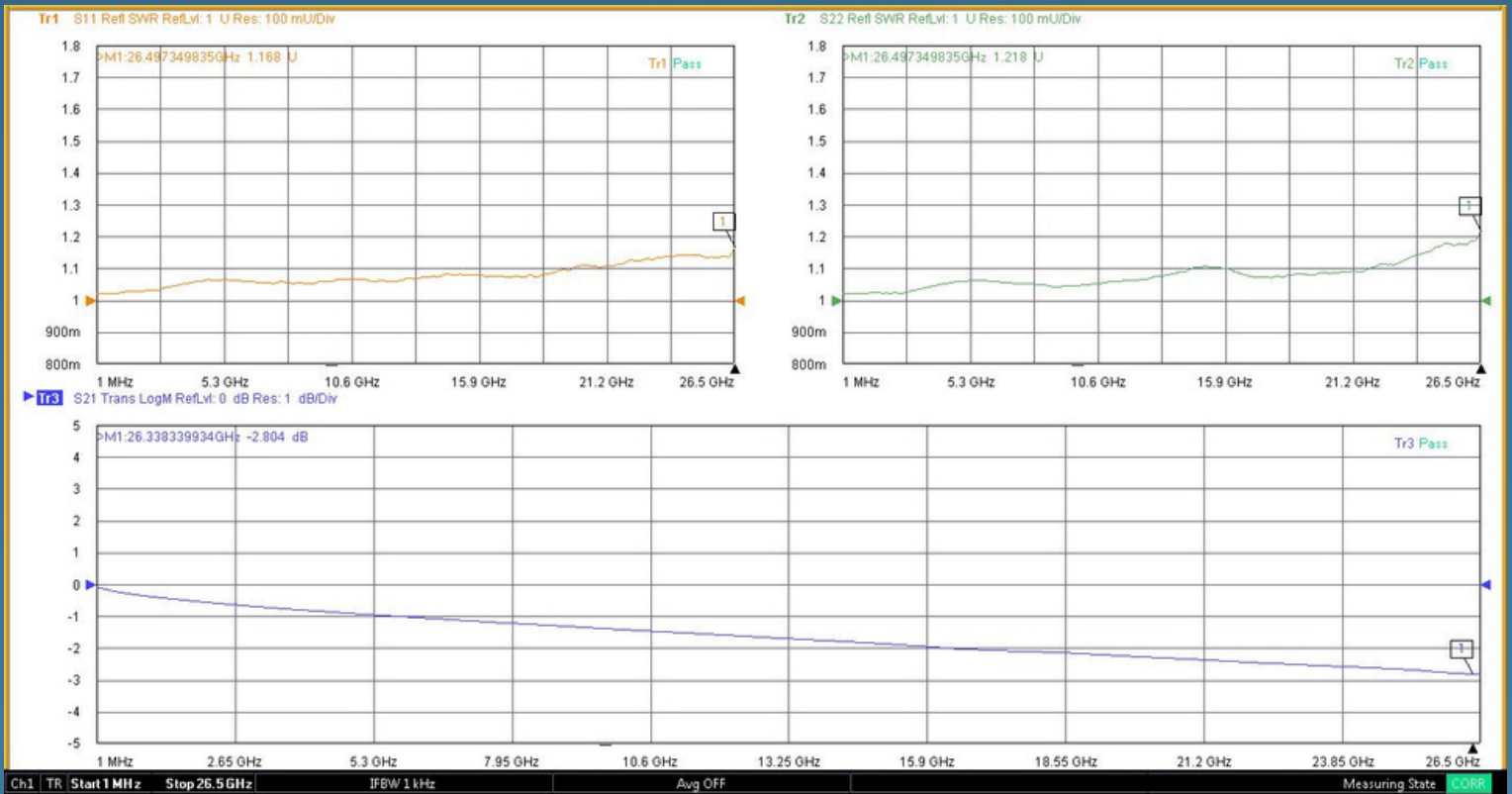
Attenuation (Typical Data)

Frequency (GHz)	Max. Attenuation (dB/m)
500 MHz	0.28
1 GHz	0.40
3 GHz	0.75
5 GHz	1.01
10 GHz	1.54
18 GHz	2.25
26.5 GHz	2.91



VNA Testing Data

Typical S11/S22/S21 Performance



Part Number Matrix

Number

Description

95224795

SMA M to SMA M MTC1010 26.5GHz RF
General Purpose Lab Test CBL w/ 3 Layers Shrink

95224795001

SMA M to SMA M MTC1010 26.5GHz RF
General Purpose Lab Test CBL w/ 3 Layers Shrink 1M

95224795003

SMA M to SMA M MTC1010 26.5GHz RF
General Purpose Lab Test CBL, w/ 3 Layers Shrink 3M

95224795006

SMA M to SMA M MTC1010 26.5GHz RF General
Purpose Lab Test CBL, w/ 3 Layers Shrink 6M

95224795008

SMA M to SMA M MTC1010 26.5GHz RF General
Purpose Lab Test CBL, w/ 3 Layers Shrink 8M

- Lengths Available in Meters or Feet
- Heat Shrink Layering can be Adjusted Upon Request

Key

Base Part # = 95224795
Length # = 001

