

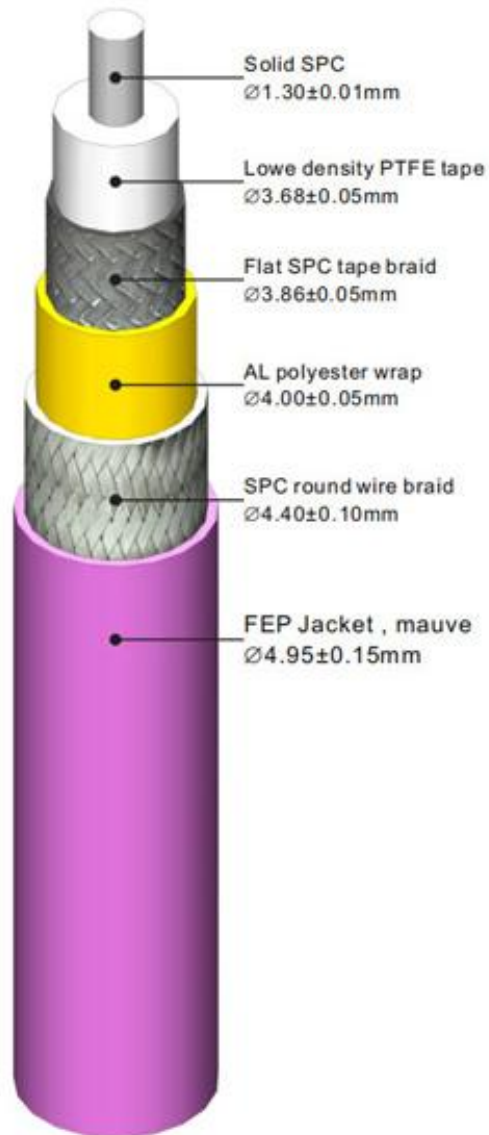
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Product Name: Lincostech Cable

Part Model: Microwave LowLoss Coax Cable 16901195, Microwave

LowLoss Coax Cable 16901220-1

Product Picture:



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Product Description: LINCOS high performance microwave Low Loss

Cables are rugged and flexible, these cables suit microwave

interconnects for airborne and ground based military as well as,

commercial telecom applications. It performs as low loss test cable for

production testing of RF components and equipment with excellent

phase stability and durability. Large sizes are ideal for high power

industrial applications.

Product Features:

1. Impedance: 50 Ω

2. Applicable up to 18GHz and 26.5GHz

3. High stability and low loss

4. Operate range from -55°C ~ 200°C

5. Flexibility up to 10,000 times

Cable Structure:

1. Inner Conductor: Solid or Strand Silver Plated Copper

2. Insulation: Wrapped Low Density PTFE

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3.First Outer Shield: Flat Strip Braid of Sliver Plated Copper

4.Second Outer Shield: Wrapped Foil Kapton

5.Third Outer Shield: Braid Sliver Plated Copper

6.Jacket: FEP

Electrical Parameters:

Item	Specification
Impedance	50±2 Ω
Delay	1.27 ns/ft
Capacitance	25.5 pF/ft
Velocity of propagation	80%
Max.VSWR(DC~18GHz)	1:1.35 (Figure 1)
Shielding effectiveness	> 90 dB @ 18 GHz

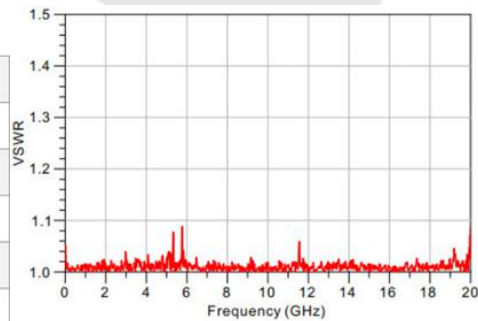


Figure 1:VSWR(0~20 GHz)

Typical Attenuation (Figure 2)	
0.4GHz	5.1 dB/100ft
1GHz	8.1 dB/100ft
3GHz	14.2 dB/100ft
5GHz	18.6 dB/100ft
10GHz	26.4 dB/100ft
18GHz	36.5 dB/100ft

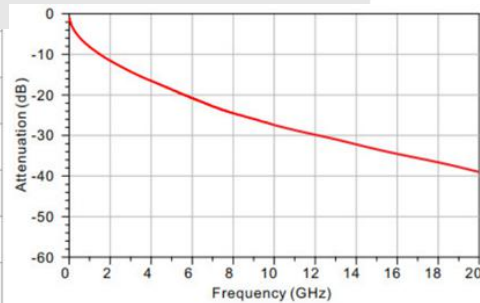


Figure 2: 16901195 attenuation(100ft, 0~20 GHz)

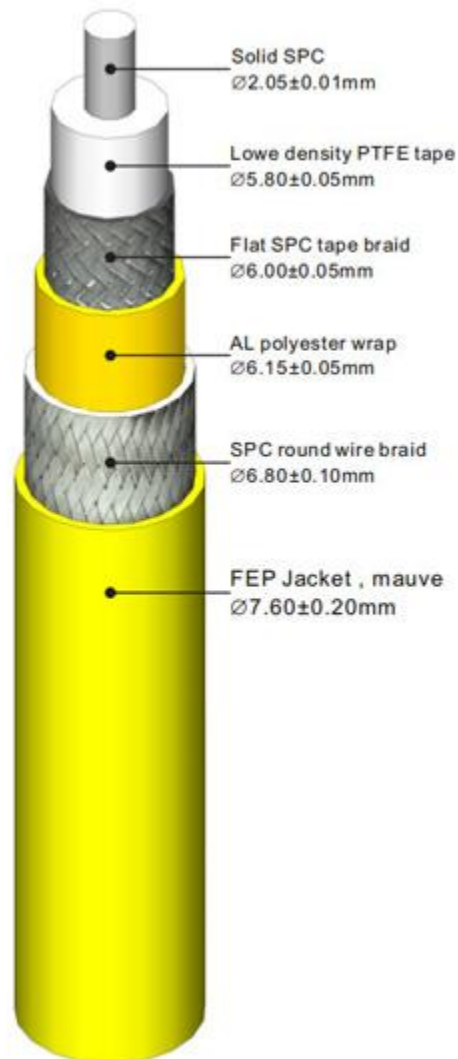
Mechanical / Environmental Characteristics:

Item	Specification
Max. Weight	58.0 g/m
Min. Bend radius	25.4 mm
Operating temperature	-55°C ~ 165°C

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Part Model: Microwave LowLoss Coax Cable 16901300

Product Picture:



Product Description: LINCOS high performance microwave Low Loss

Cables are rugged and flexible, these cables suit microwave

interconnects for airborne and ground based military as well as,

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commercial telecom applications. It performs as low loss test cable for
production testing of RF components and equipment with excellent
phase stability and durability. Large sizes are ideal for high power
industrial applications.

Product Features:

1. Impedance: 50 Ω
2. Applicable up to 18GHz and 26.5GHz
3. High stability and low loss
4. Operate range from -55°C ~ 200°C
5. Flexibility up to 10,000 times

Cable Structure:

1. Inner Conductor: Solid or Strand Silver Plated Copper
2. Insulation: Wrapped Low Density PTFE
3. First Outer Shield: Flat Strip Braid of Silver Plated Copper
4. Second Outer Shield: Wrapped Foil Kapton
5. Third Outer Shield: Braid Silver Plated Copper

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6.Jacket: FEP

Electrical Parameters:

Item	Specification
Impedance	50±2 Ω
Delay	4.1 ns/m
Capacitance	81 pF/m
Velocity of propagation	80% nom
Max.VSWR(DC~18GHz)	1:1.35 (Figure 1)
Shielding effectiveness	> 90 dB @ 18 GHz
Typical Attenuation (Figure 2)	
1GHz	0.18dB/m
2GHz	0.26 dB/m
3GHz	0.30 dB/m
4GHz	0.36 dB/m
6GHz	0.45 dB/m
8GHz	0.52 dB/m
10GHz	0.58 dB/m
12GHz	0.64 dB/m
18GHz	0.81 dB/m

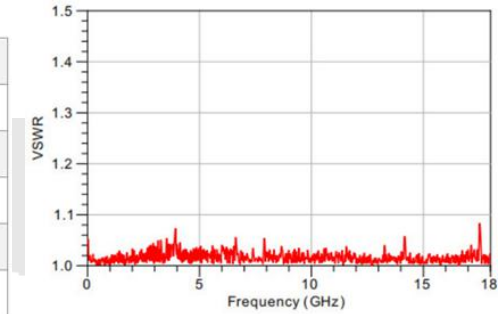


Figure 1:VSWR(0~18 GHz)

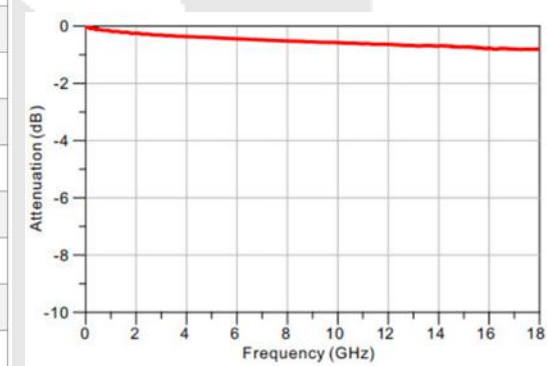


Figure 2: 16901300 attenuation(1m, 0~18 GHz)

Mechanical / Environmental Characteristics:

Item	Specification
Max. Weight	118 g/m nom
Min. Bend radius	50.8 mm
Operating temperature	-55°C ~ 200°C

Shipping request: TBD

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Product Name:Lincostech Cable

Part Model: Aerospace 1553B Cable

Product Picture:



Product Description: 1553B data bus is the abbreviation of MIL-STD-1553B, whose full name is digital time-division command/response multiplexed data bus. 1553B is a deterministic and reliable data bus with transmission, especially suitable for applications where mission-critical computing modules are interconnected with real-time sensors and controllers, and it is to provide a set of codecs for transmission

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standards to facilitate the mutual transfer of information and data
processing between subsystems.

It is characterized by high transmission rate, simple and flexible
connection between devices, high noise tolerance, high communication
efficiency and reliability.

Features and Benefits:

- 1.High transmission rate
- 2.Simple and flexible connection between devices
- 3.High noise tolerance
- 4.Highly efficient and reliable communication

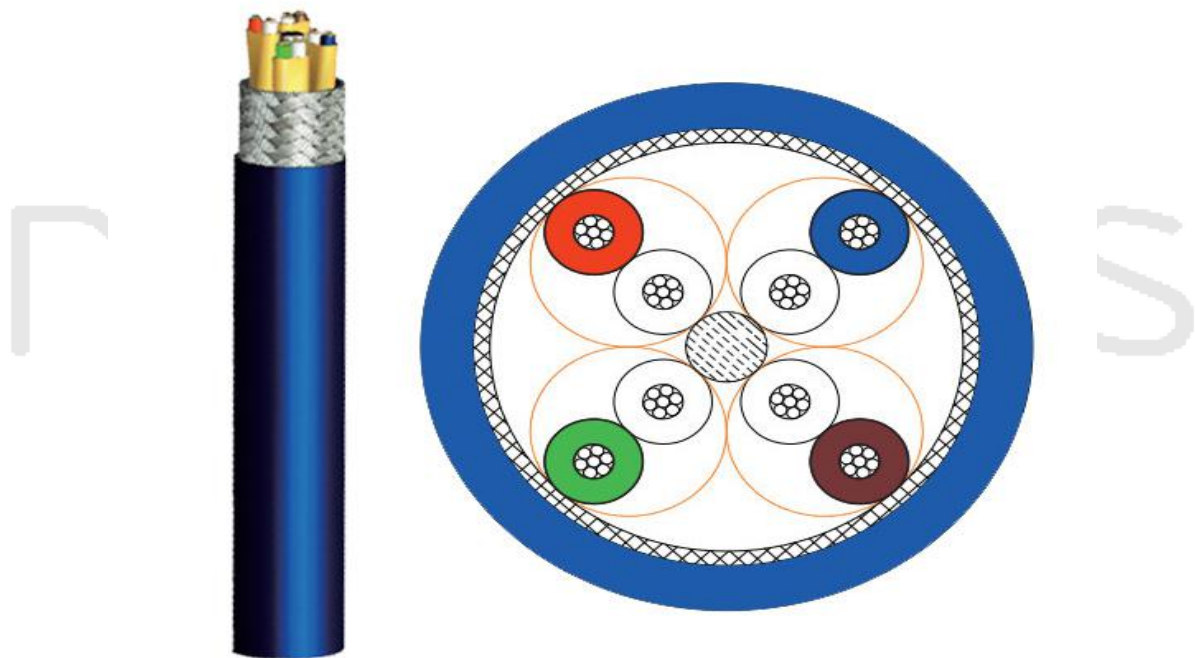


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Product Name: Lincostech Cable

Part Model: Ethernet CAT6a Cable 16126207

Product Picture:



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Product Description: LINCOS Ethernet cables suits modern airborne digital networks. These cable exceed standard Cat6a electrical requirements and deliver reliable signal integrity with sufficient margin for high speed data transmission up to 10 gigabits over longer distances . Expanded PTFE dielectric allow these cables is smaller and lighter than standard Cat6a cables for greater flexibility and easier installation in challenging environments.

We choose the appropriate construction materials for your application. Aerospace products utilize temperature resistant insulation and jacket materials along with aramid fibers. Medical and consumer products utilize high performance foil shield and durable jacket materials such as TPU to ensure performance.

Features and Benefits:

- 1.All materials are non-flammable
- 2.Low signal attenuation, support for long- distance signal transmission

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3.The low dielectric constant to sure smaller cable diameter, fused composite insulation prevent retraction during assembly.

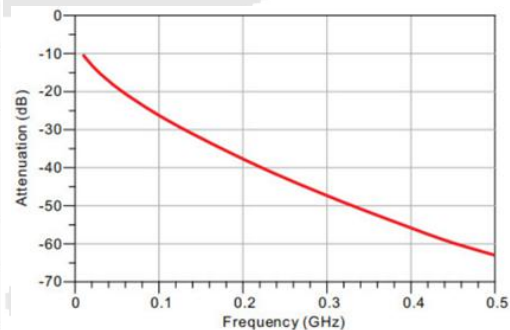
4.All materials withstand extreme temperatures.

Common Applications:

- 1.Digital video systems
- 2.Cabin management systems
- 3.Flight management systems
- 4.Ethernet backbone
- 5.In-flight entertainment systems

Electrical Parameters

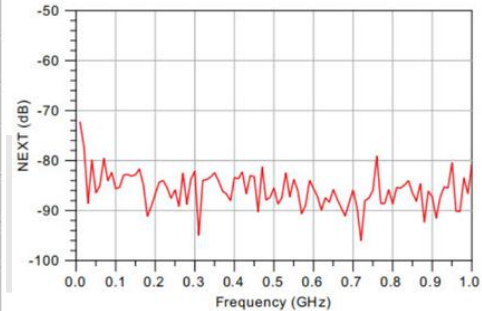
Item	Specification
Impedance	100±10 Ω
Delay	4.1 ns/m nom.
Capacitance	41 pF/m nom.
Insulation resistance	≥ 1500 MΩ.Km
Conductor DC resistance	≤ 143 Ω/Km @ 20 °C
Withstand voltage	AC1500V(Leakage current < 5 mA)



Attenuation (Length:65 m) in 0~0.5 GHz

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Attenuation(Maximum)	
10GHz	5.9 dB/65m
20GHz	8.4 dB/65m
25.0GHz	9.4 dB/65m
62.5GHz	15.0 dB/65m
100GHz	19.1 dB/65m
200GHz	27.6 dB/65m
250GHz	31.1 dB/65m
300GHz	34.3 dB/65m
400GHz	40.1 dB/65m
500GHz	45.3 dB/65m
近端串扰	< -70 dB @ 10 MHz~1 GHz



NEXT < -70 dB in 10 MHz~1 GHz

Mechanical / Environmental Characteristics:

Maximum Weight	53.0 g/m
Min. Bend radius	45.0 mm
Operating temperature	-55 °C ~ 200 °C

This Cable meets TIA5 68C.2 CATEGORY 6A Requirement up to 65 meters
This Cable meets ROHS 2011 /65/EU

Construction:

Item	Description
Shielding twist pairs	Conductor SPC strand 26AWG(19/0.10), O.D.Φ0.50 mm
	Dielectric ePTFE/PTFE,O.D.Φ1.27±0.05mm
	Colour code: White & Blue ; White & orange ; White & Green; White & Brown
	Shielding High temperature resistant Al. foil
Filler	FEP/ePTFE bar,O.D.Φ0.9 mm
Overall shielding	40AWG SPC Braid , Min. 92% coverage rate
Jacket	Fluoroplastics F46 , Blue, O.D.Φ6.0 mm
Making	Lincos cat6a 26AWG 4 pair P/N 16126207 VW-1 -55 °C ~ 200 °C

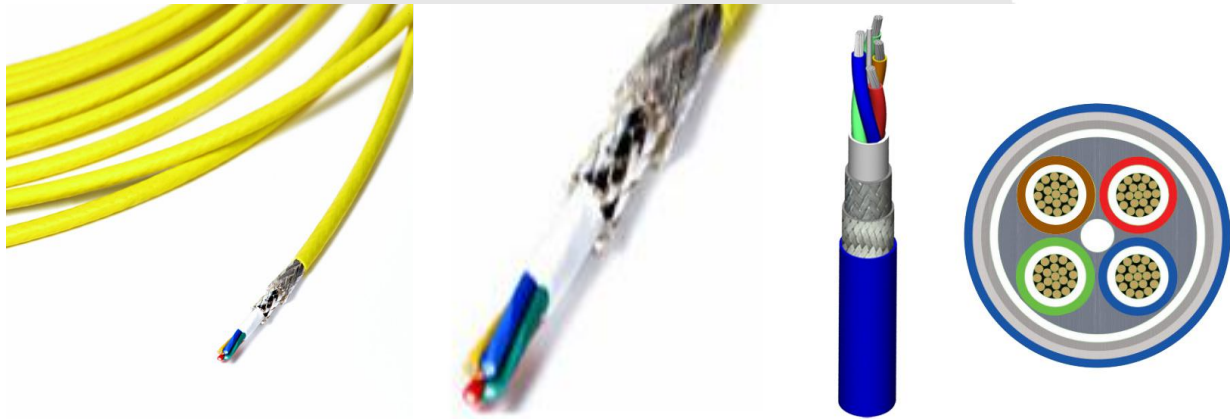
Shipping request: TBD

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Product Name:Lincostech Cable

Part Model: Aerospace 1394B Cable 16211024/16211026

Product Picture:



Product Description: LINCOS 1394B Cable provides high fidelity signal links for interconnect solutions up to 23m at S400 data rate , the cable can support higher 1394 data rates . Quad design offers significant size and weight savings when compared with common constructions such as twisted pair cables. In addition, the combination of materials in this construction supports a wide temperature range (-65°C~200°C) and meets the most demanding military environments .

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Our products utilize low density PTFE tape wrapped dielectric materials.

This allows for operating temperatures up to 260° C while ensuring

small size with lower attenuation as compared to extruded cable

solutions. Tape wrapped dielectric materials also allow for improved

flexibility and weight. This allows for high performance in challenging

environments such as aircraft or vehicle data bus applications.

Construction:

16211024

16211026

Item	material	mm	
Cores	Conductor	SPC strand (19/0.127)	Φ0.63
	Dielectric	ePTFE / PTFE	Φ1.37
	Color code: Red & Green ; Blue & orange		
Filler	FEP Road	Φ0.56	
Binder	Low density PTFE tape	—	
Shielding 1	40AWG SPC Round Braid, Min.92% coverage	—	
Shielding 2	38AWG SPC Round Braid, Min.92% coverage	—	
Jacket	FEP, Blue	Φ4.80	

Item	material	mm	
Cores	Conductor	SPC strand (19/1.0)	Φ0.63
	Dielectric	ePTFE / PTFE	Φ1.12
	Color code: Red & Green ; Blue & orange		
Filler	FEP Road	Φ0.56	
Binder	Low density PTFE tape	—	
Shielding 1	40AWG SPC Round Braid, Min.92% coverage	—	
Shielding 2	38AWG SPC Round Braid, Min.92% coverage	—	
Jacket	FEP, Blue	Φ3.50	

Engineering Your Needs

Features and Benefits:

- 1、 Quad design, compared with the twisted pair, diameter is smaller 40% and 45% weight saving.

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2、 Low-density PTFE insulation has a low power dissipation factor

angle, signal low loss to supports long-distance signal transmission

3、 The low dielectric constant to sure smaller cable diameter, fused

composite insulation prevent retraction during assembly

4、 In the range of 28 AWG to 22AWG conductor selection, the optimal

performance to weight ratio is obtained

Conformity to Standards:

1、 ANSI/NEMA WC 27500 Performance Requirements: Environmental Testing, Jacket and Marking.

2、 BSS7239 : Toxicity.

3、 FAR Part 25, Appendix F , MIL-W-22759: Flame-retardant and Smoke Density .

4、 MIL-STD-461:Electromagnetic compatibility.

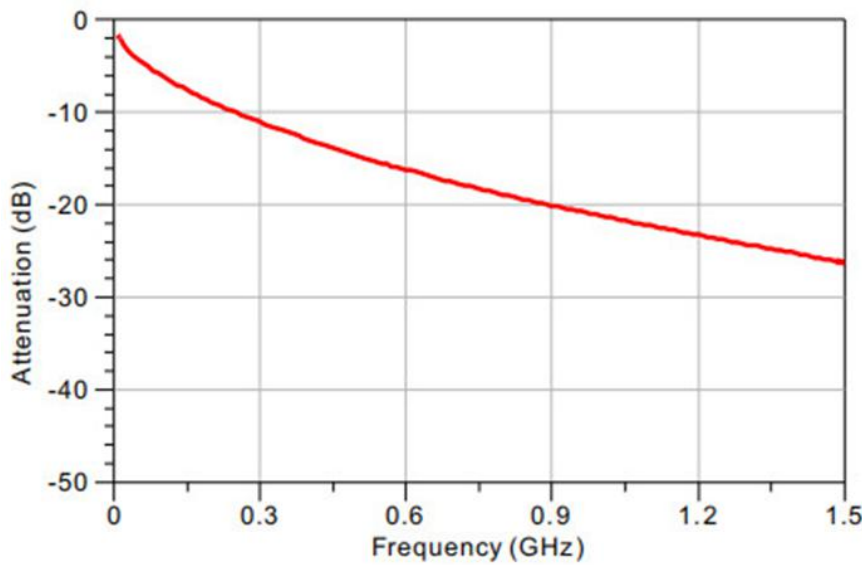
5、 RTCA: Lightning Strikes.

6、 NASA -5643: IEEE1394b Interface Requirements for Military and Spacecraft.

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Electrical Parameters:

16211024

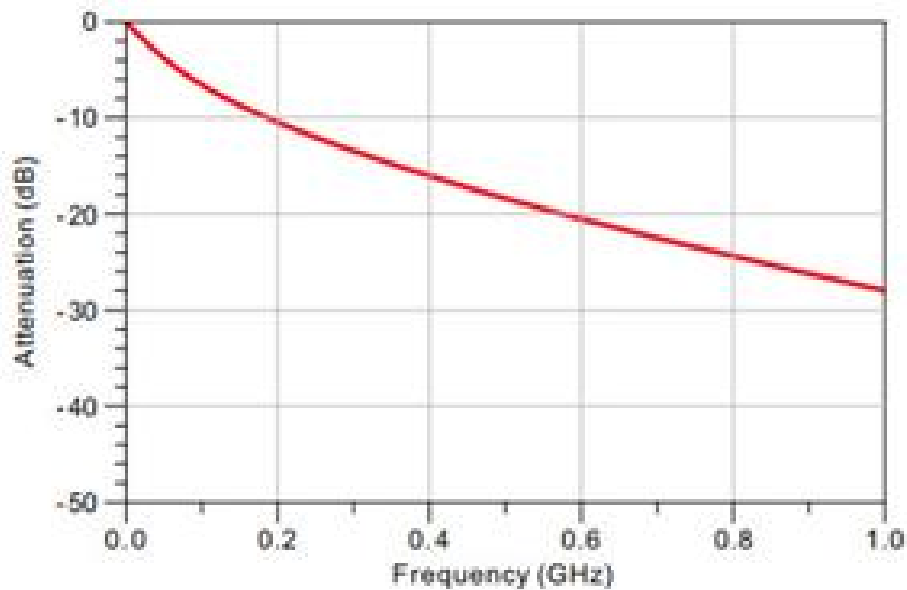
Item	Specification
Impedance	110±6 Ω
Delay	1.25 ns/ft nom.
Propagation Rate	80% nom
Capacitance	39.4 pF/m
Skew(within pair)	3.5 ps/ft
Rated voltage	500 V
Dielectric Strength	1500 Vrms(conductor to conductor)
	1000 Vrms((conductor to shielding)
Attenuation(Typical)	6.11 dB/100ft @ 100 MHz
	8.86 dB /100ft @ 200 MHz
	14.67 dB/100ft @ 500 MHz
	21.20 dB/100ft @ 1000 MHz



Attenuation (Length:100 ft) in 0~1GHz

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16211026

Item	Specification
Impedance	110±6 Ω
Delay	1.25 ns/ft nom.
Propagation Rate	80% nom
Capacitance	39.4 pF/m
Skew(within pair)	3.5 ps/ft
Rated voltage	500 V
Dielectric Strength	1500 Vrms(conductor to conductor)
	1000 Vrms(conductor to shielding)
Attenuation(Typical)	8.55 dB/100ft @ 100 MHz
	14.2 dB/100ft @ 200 MHz
	19.2 dB/100ft @ 500 MHz
	28.0 dB/100ft @ 1000 MHz



Attenuation (Length:100 ft) in 0~1GHz

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Mechanical / Environmental Characteristics:

Maximum weight	46.2 g/m
Min. Bend radius	22.4 mm
Operating temperature	-55 °C ~200 °C

Shipping request: TBD

Product Name:Lincostech Cable

Part Model: HDMI Cable 16301185

Product Picture:



Product Description: LINCOS HDMI 2.0 Cables delivers signal integrity for high-speed data transmission up to 18Gigabits over longer distances.

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Our cable bundles enable a higher video resolution up to 4K, which is four times the clarity of 1080p/60 resolution.

We use a variety of materials with our design expertise to optimize for your application. For Aerospace applications we focus on the use of small diameter products with allow for lower weight and tighter bend radiuses to allow for cable routing in confined spaces. Dynamic applications similar to Automotive and Semiconductor processing require higher flex life with tight bend radiuses and compact cable constructions.

Typical Applications:

1. Digital video systems
2. Flight management systems
3. Portable electronic devices
4. Weather mapping

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Product Name:Lincostech Cable

Part Model: High Data Rate IO Cable 17340730-07

Product Picture:



Product Description: LINCOS TECH design and manufacture high performance SFP+ and QSFP products , these cable provide superior signal fidelity over long distances , conforms to the electrical , mechanical and physical specification and standards established for interconnect in the INFINIBAND I/O architecture .LINCOS cable has excellent insertion loss performance , this is accomplished through the

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low dielectric constant , low-loss tangent , and consistency of expanded
PTFE dielectric .

Features and Benefits:

- 1.The gap of insertion loss between pairs is smallest
- 2.High bandwidth
- 3.Low delay time and Low skew
- 4.High propagation velocity
- 5.Flexibility and weight saving , small Size to allow for easier handling
and cooling
- 6.RoHS Compliant

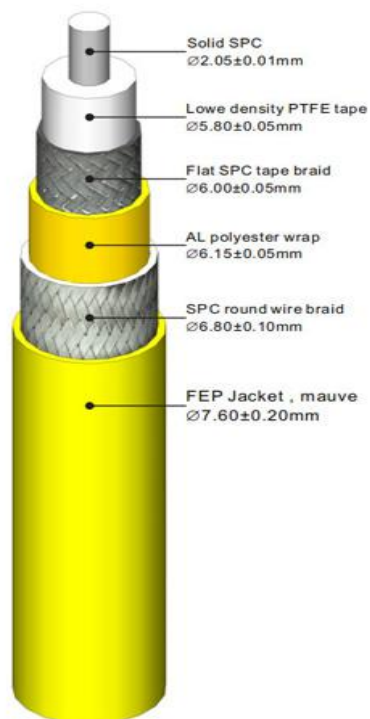


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Product Name:Lincostech Cable

Part Model: Precision Coax Cable 16701047

Product Picture:



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Product Description: LINCOS high performance microwave Low Loss

Cables are rugged and flexible, these cables suit microwave interconnects for airborne and ground based military as well as, commercial telecom applications. It performs as low loss test cable for production testing of RF components and equipment with excellent phase stability and durability. Large sizes are ideal for high power industrial applications.

Product Features:

1. Impedance: 50 Ω
2. Applicable up to 18GHz and 26.5GHz
3. High stability and low loss
4. Operate range from -55°C ~ 200°C
5. Flexibility up to 10,000 times

Cable Structure:

1. Inner Conductor: Solid or Strand Silver Plated Copper
2. Insulation: Wrapped Low Density PTFE
3. First Outer Shield: Flat Strip Braid of Silver Plated Copper

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 4.Second Outer Shield: Wrapped Foil Kapton

5.Third Outer Shield: Braid Sliver Plated Copper

6.Jacket: FEP

Electrical Parameters:

Item	Specification
Impedance	50±2 Ω
Delay	4.1 ns/m
Capacitance	81 pF/m
Velocity of propagation	80% nom
Max.VSWR(DC~18GHz)	1:1.35 (Figure 1)
Shielding effectiveness	> 90 dB @ 18 GHz
Typical Attenuation (Figure 2)	
1GHz	0.18dB/m
2GHz	0.26 dB/m
3GHz	0.30 dB/m
4GHz	0.36 dB/m
6GHz	0.45 dB/m
8GHz	0.52 dB/m
10GHz	0.58 dB/m
12GHz	0.64 dB/m
18GHz	0.81 dB/m

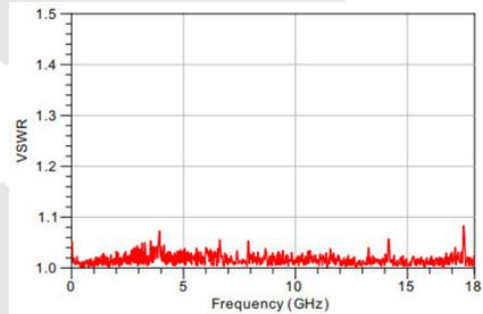


Figure 1:VSWR(0~18 GHz)

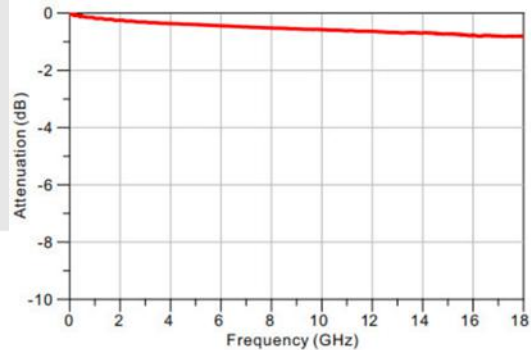


Figure 2: 16901300 attenuation(1m, 0~18 GHz)

Mechanical / Environmental Characteristics:

Item	Specification
Max. Weight	118 g/m nom
Min. Bend radius	50.8 mm
Operating temperature	-55°C ~ 200°C

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Product Name: Lincostech Cable

Part Model: USB Cable 16301058

Product Picture:



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Product Description: Lincos designs and manufactures high performance USB cable solutions for demanding applications.

Aerospace systems utilize materials that ensure high performance with data rates up to 10 gigabits/sec. Cable constructions designed to withstand the operating and life cycle requirements of the Aerospace environment. High flex life applications utilize stranded alloy conductors to maintain signal performance in dynamic environments. Aerospace USB feature an exclusive cable jacket material and high-density construction that dramatically reduces diameter and weight. High flex application USB cable has polyurethane jacket.

Construction:

Item	material	mm
High speed pair:		
Conductor	28AWG(65/46) TPCA	Φ0.38
Dielectric	ePTFE/PTFE	Φ0.90
Colour	Blue-Yellow,Orange-Purple	
Drain wire	AWG28(65/46),TPCA	Φ0.38
Shielding	High strength foil (foil face in)	—
USB 2.0 pair:		
Conductor	30AWG(41/46) strand TPCA	Φ0.32
Dielectric	FEP	Φ0.69
Colour	Green, White	—
Binder	PTFE	—

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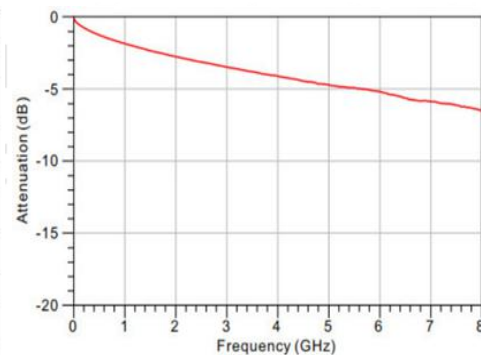
Power wire:		
Conducotor	22AWG(61/40) SPC	Φ0.48
Dielectric	FEP	Φ0.95
Colour	Red, Black	—
Filler	KEVLAR 1500D	—
Shielding	38AWG SPC braid, Min. coverage 90%	—
Jacket	TPU,Black	Φ5.2

Typical Applications:

- 1.Content loading
- 2.Data transfer
- 3.Digital video systems
- 4.Portable electronic devices
- 5.Power remote devices

Electrical Parameters:

Item	Specification
Impedance	90±7.5 Ω
Delay	4.2 ns/m nom.
Intra skew	<10.0 ps/m
Inter skew	<15.0 ps/m
Attenuation(Typical):	
	1.4 dB/m @ 0.625GHz
	2.0 dB/m @ 1.25GHz
	2.9 dB/m @ 2.5GHz
	4.3 dB/m @ 5.0GHz
	6.0 dB/m @ 7.50GHz



High Speed Pair Attenuation (Length:5 m) in 0~7.5GHz

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Mechanical / Environmental Characteristics:

Maximum weight	50.0 g/m nom.
Min. Bend radius	6XO.D.
Operating temperature	-25 °C ~ 80 °C

Product Name: Lincostech Cable

Part Model: Microwave Low Loss Semi-flexible Cable

16701047/16701086

Product Picture:



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Product Description: Semi-flexible coaxial RF cables are widely used in transmission systems using RF signals, such as rockets, satellites, communications, navigation, electronic countermeasures, and measurement and control equipment. LINCOS' existing semi-flexible coaxial RF cable has excellent performances such as good bending

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resistance, light weight, wide temperature range, high frequency of use,
low attenuation, small VSWR, and good shielding performance.

Product Features:

- 1.Characteristics Impedance: 50 Ω
- 2.Suitable for 26.5GHz and 40.0GHz
- 3.High mechanical stability and low loss
- 4.Operating temperature: -55°C ~ 200°C

Cable Structure:

- 1.Center Conductor: solid or strand SPC
2. Insulation: solid PTFE extrusion
- 3.Outer Conductor: flat silver plated tape wrapping
- 4.Mechanical Braiding: SPC round wire braiding
- 5.Jacket: FEP extrusion

Electrical Parameters:

16701047

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Item	Specification
Impedance	50±2 Ω
Delay	4.80 ns/m Nom.
Capacitance	95 pF/m Nom.
Velocity of propagation	70% Nom.
Max. VSWR(DC~40GHz)	1:1.35 (Figure 1)
Screening effectiveness	>90dB@18GHz
Typical Attenuation (Figure 2 , 1 meter with 2.92 connectors)	
0.89GHz	1.67 dB/m
1.0GHz	1.26 dB/m
2.0GHz	1.79 dB/m
4.0GHz	2.55 dB/m
8.0GHz	3.71 dB/m
12.0GHz	4.52 dB/m
18.0GHz	5.57 dB/m
26.0GHz	6.78 dB/m
40.0GHz	8.78 dB/m

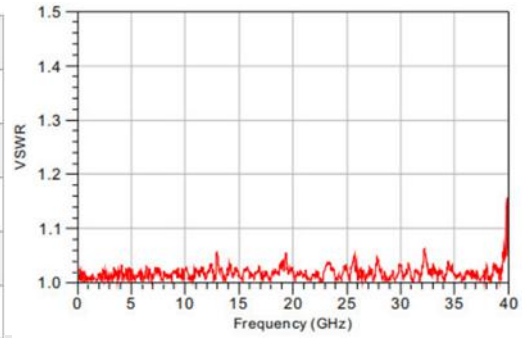


Figure 1: VSWR <1.35(0~40GHz)

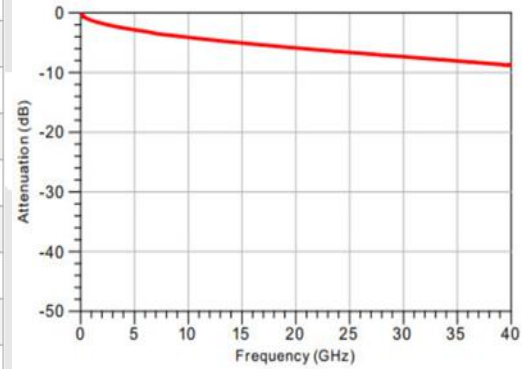


Figure 2:1670147 attenuation (1 meter, 0~40 GHz)

16701086

Item	Specification
Impedance	50±2 Ω
Delay	4.80 ns/m Nom.
Capacitance	95 pF/m Nom.
Velocity of propagation	70% Nom.
Max. VSWR(DC~40GHz)	1:1.35 (图1所示)
Screening effectiveness	40.0 GHz
屏蔽效能	> 90 dB@18GHz

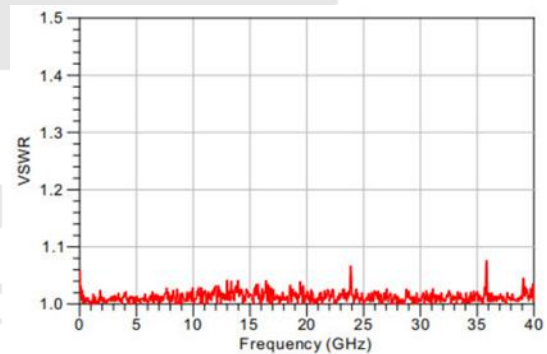


Figure 1: VSWR <1.35(DC~40GHz)

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Typical Attenuation (Figure 2, 1 meter with 2.92 connectors)	
1GHz	0.72 dB/m
3.0GHz	1.28 dB/m
5.0GHz	1.67 dB/m
10.0GHz	2.42 dB/m
18.0GHz	3.34 dB/m
26.5.0GHz	4.14 dB/m
40.0GHz	5.24dB/m

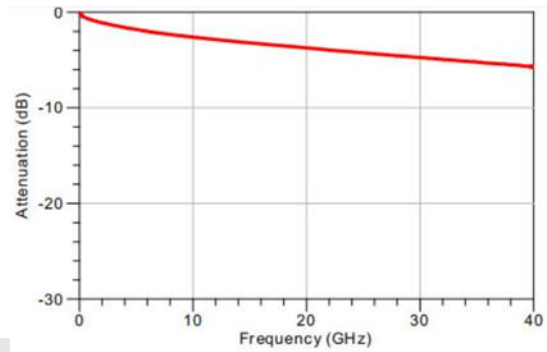


Figure 2:1670186 attenuation (1 meter, 0~40.0 GHz)

Mechanical / Environmental Characteristics:

16701047

Item	Specification
Weight	5.4 g/m
Min. bend radius -Static	3.2 mm
Min. bend radius- Dynamic	6.4mm
Operating temperature	-55°C ~ 165°C

16701086

Item	Specification
Weight	21.0 g/m
Min. bend radius-Static	3.2 mm
Min. bend radius-Dynamic	6.4mm
Operating temperature	-55~200°C

Shipping request: TBD

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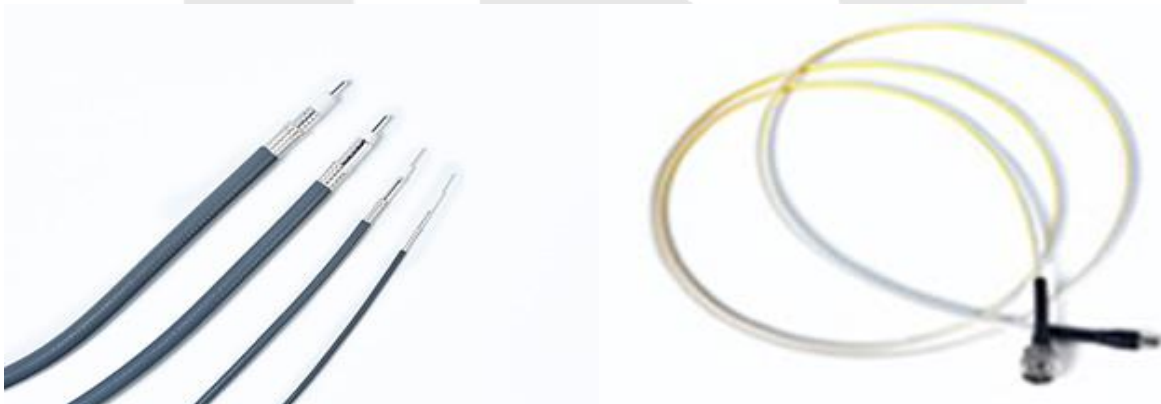
Product Name:Lincostech Cable

Part Model: Microwave Phase Stable Coax Cable

16501047/16501086/16501140/16501190/16501290/16501311/1650

1320

Product Picture:



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Product Description: LINCOS Microwave Cable Assemblies support

applications up to 40GHz while meeting your phase matching

requirements. Cable sizes range from 0.033" (0.94mm) to 0.311" (7.9mm)

using a wide range of connectors that include: 2.4mm, 2.92mm, SMA,

SMP, N-type, TNC, BNC. Custom solutions for RF and Power

applications are also available.

Features and Benefits:

- 1.Applicable up to 40G
- 2.Phase Matching and Amplitude Stability
- 3.High flexibility, stability and low loss
- 4.Cable Size from 0.033" to 0.311"
- 5.High Power application

Typical Applications:

- 1.Antenna arrays
- 2.Automated test equipment systems
- 3.Telecommunication systems
- 4.Environmental test chambers

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5. Module-to-module interconnect

Electrical Parameters:

16501047

Item	Specification
Impedance	50±2 Ω
Delay	4.2 ns/m
Capacitance	83.0 pF/m
Velocity of propagation	80% Nom.
VSWR (0~26.5GHz)	1:1.35 (Figure 1)
Max. operating frequency	26.5 GHz
Screening effectiveness	> 90 dB@18GHz

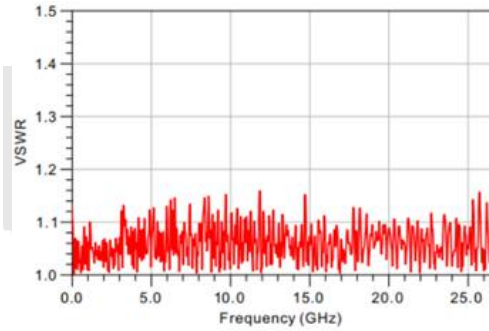


Figure 1: VSWR < 1.20 (0~26.5 GHz)

Typical attenuation (Figure 2)	
2.0GHz	1.67 dB/m
4.0GHz	2.36 dB/m
6.0GHz	2.89 dB/m
8.0GHz	3.35 dB/m
10.0GHz	3.74 dB/m
12.0GHz	4.04 dB/m
14.0GHz	4.43 dB/m
18.0GHz	5.02 dB/m
26.5.0GHz	6.14 dB/m

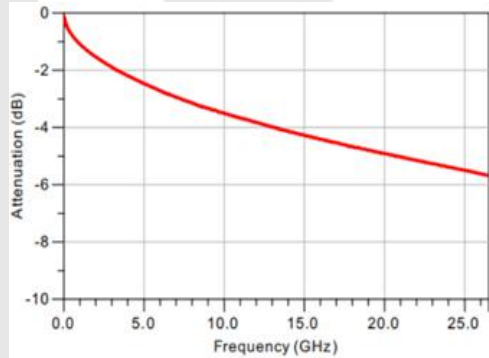
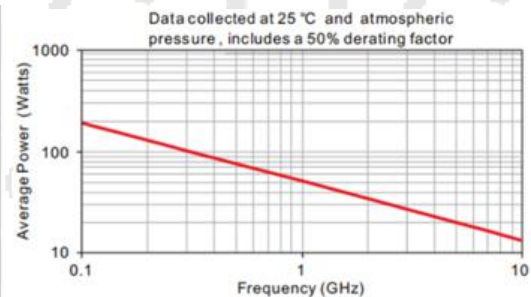


Figure 2: 16501047 attenuation(1 meter, 0~26.5 GHz)

Power handing	Figure 3
Phase stability vs. flexure (360°, diameter 55 mm)	<1.4°el/GHz
Phase stability vs. temperature (-55~85°C)	<1000 ppm
Insertion loss stability vs. shaking	<±0.1 dB
Insertion loss stability vs. bending	<±0.2 dB
Insertion loss stability vs. temperature	<0.2%/°C



Power Handling in 0.1 ~ 10 GHz

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16501086

Item	Specification
Impedance	50±2 Ω
Delay	4.0 ns/m
Capacitance	80 pF/m
Velocity of propagation	83% Nom.
VSWR (0~26.5GHz)	1:1.35 (图1所示)
Max. operating frequency	40 GHz
Screening effectiveness	> 90 dB@18GHz

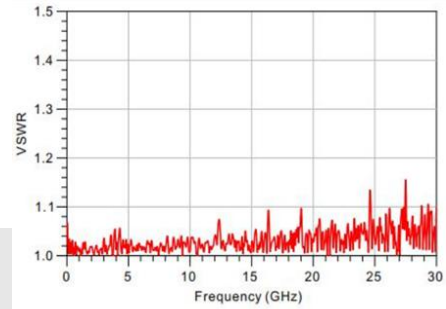


Figure 1: VSWR < 1.20 (0~26.5 GHz)

Typical attenuation (Figure 2)	
2.0GHz	0.90 dB/m
4.0GHz	1.29 dB/m
6.0GHz	1.55 dB/m
8.0GHz	1.82 dB/m
10.0GHz	2.05 dB/m
12.0GHz	2.26 dB/m
18.0GHz	2.79 dB/m
26.5.0GHz	3.48 dB/m

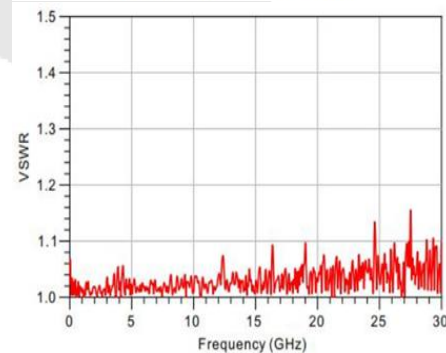
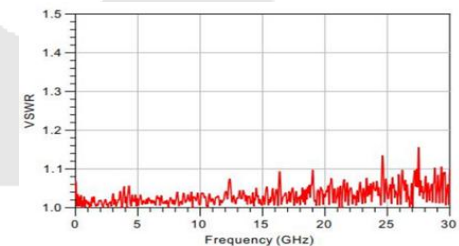


Figure 2: 16501086 attenuation(1 meter, 0~30.0 GHz)

Power handing	Figure 3
Phase stability vs. flexure (360°, diameter 55 mm)	<1.2 °el/GHz
Phase stability vs. temperature (-55~85°C)	<710 ppm
Insertion loss stability vs. shaking	<±0.1 dB
Insertion loss stability vs. bending	<±0.2 dB
Insertion loss stability vs. temperature	<0.2%/°C



Power Handling in 0.1 ~ 10 GHz

16501140

Item	Specification
Impedance	50±2 Ω
Delay	4.0 ns/m
Capacitance	80 pF/m
Velocity of propagation	84% Nom.
VSWR (0~26.5GHz)	Max 1:1.35 (Figure 1)
Max. operating frequency	40 GHz
Screening effectiveness	> 90 dB@18GHz

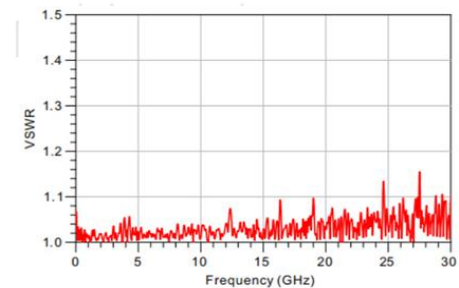


图1: 驻波 < 1.20 (0~30 GHz)

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Typical attenuation (Figure 2)	
2.0GHz	0.57 dB/m
4.0GHz	0.83 dB/m
6.0GHz	0.99 dB/m
8.0GHz	1.16 dB/m
10.0GHz	1.29 dB/m
12.0GHz	1.39 dB/m
18.0GHz	1.67 dB/m
26.5.0GHz	2.02 dB/m
40 GHz	2.6 dB/m
Power handing	
Figure 3	
Phase stability vs. flexure (360°, diameter 55 mm)	<1.2 °el/GHz
Phase stability vs. temperature (-55~85°C)	<660 ppm
Insertion loss stability vs. shaking	±0.1 dB dB
Insertion loss stability vs. bending	±0.1 dB
Insertion loss stability vs. temperature	<0.2%/°C

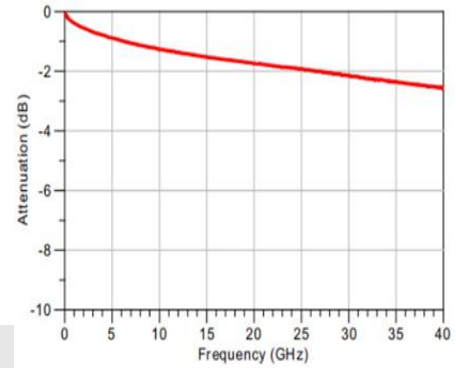
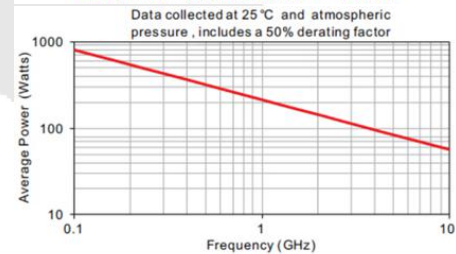


图2: 16501140 衰减曲线图(1米, 0~40 GHz)



Power Handling in 0.1 ~ 10 GHz

16501190

Item	Specification
Impedance	50±2 Ω
Delay	4.0 ns/m
Capacitance	80 pF/m
Velocity of propagation	84% Nom.
VSWR (0~26.5GHz)	Max 1:1.35 (Figure 1)
Max. operating frequency	30 GHz
Screening effectiveness	> 90 dB@18GHz
Typical attenuation (Figure 2)	
2.0GHz	0.38 dB/m
4.0GHz	0.57 dB/m
6.0GHz	0.66 dB/m
8.0GHz	0.78 dB/m
10.0GHz	0.87dB/m
12.0GHz	0.92 dB/m
18.0GHz	1.12 dB/m
26.5.0GHz	1.30 dB/m
40 GHz	1.40 dB/m

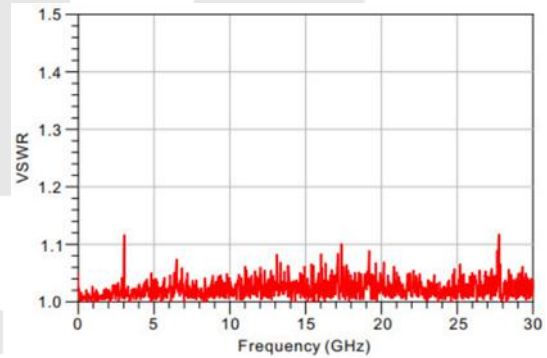


Figure1: VSWR < 1.12(0~30 GHz)

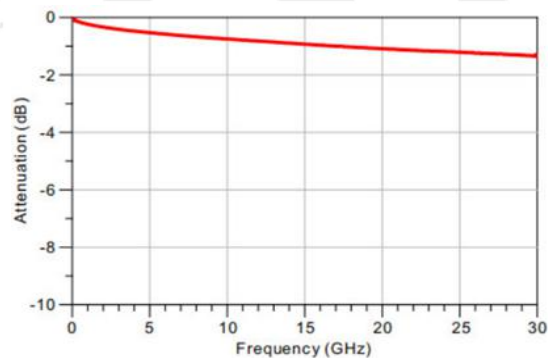


Figure2: 16501190 attenuation(1 meter, 0~30 GHz)

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Power handing	Figure 3
Phase stability vs. flexure (360°, diameter 55 mm)	<1.4 °el/GHz
Phase stability vs. temperature (-55~85°C)	<510 ppm
Insertion loss stability vs. shaking	±0.1 dB
Insertion loss stability vs. bending	±0.2 dB
Insertion loss stability vs. temperature	<0.2%/°C

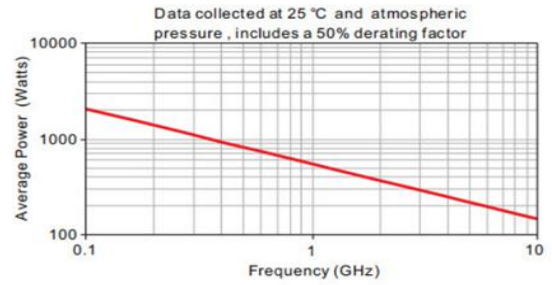


Figure 3: Average Power(0.1 ~ 10 GHz)

16501290

Item	Specification
Impedance	50±2 Ω
Delay	3.94 ns/m
Capacitance	78 pF/m
Velocity of propagation	85% Nom.
VSWR(0~18GHz)	1:1.35 (圖1所示)
Max. operating frequency	18 GHz
Screening effectiveness	> 90 dB@18GHz

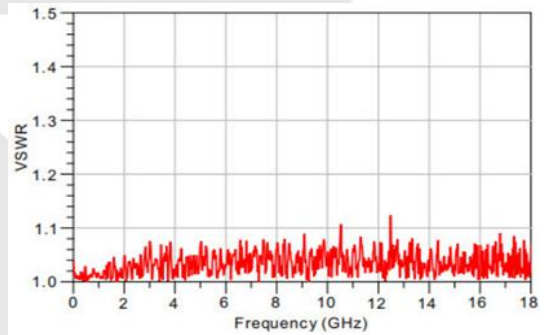


Figure 1: VSWR < 1.14(0~18 GHz)

Typical attenuation (Figure2)	
0.4GHz	0.08 dB/m
1.0GHz	0.14 dB/m
3.0GHz	0.25 dB/m
5.0GHz	0.33 dB/m
10.0GHz	0.47dB/m
18.0GHz	0.67 dB/m

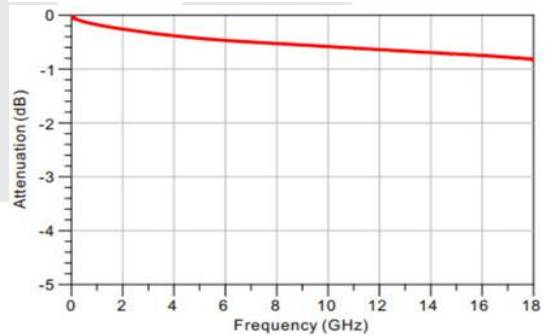


Figure 2: 16501290 attenuation(1 meter, 0~18 GHz)

Power handing	Figure 3
Phase stability vs. flexure (360°, diameter 55 mm)	<2.0 °el/GHz
Phase stability vs. temperature (-55~85°C)	<750 ppm
Insertion loss stability vs. shaking	±0.1 dB
Insertion loss stability vs. bending	±0.2 dB
Insertion loss stability vs. temperature	<0.2%/°C

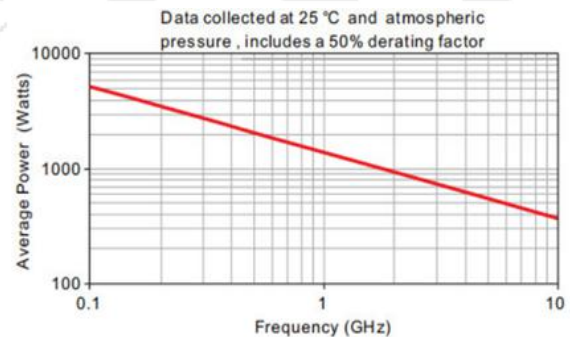


Figure 3: Average Power(0.1 ~ 10 GHz)

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16501311

Item	Specification
Impedance	50±2 Ω
Delay	4.0 ns/m
Capacitance	79 pF/m
Velocity of propagation	84% Nom.
VSWR(0~18GHz)	1:1.35 (Figure 1)
Max. operating frequency	18 GHz
Screening effectiveness	> 90 dB@18GHz

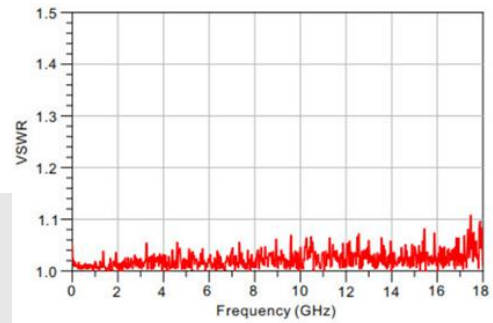


Figure 1: VSWR < 1.14(0~18 GHz)

Typical attenuation (Figure2)	
1GHz	0.14 dB/m
5GHz	0.33 dB/m
10GHz	0.46 dB/m
18GHz	0.66 dB/m

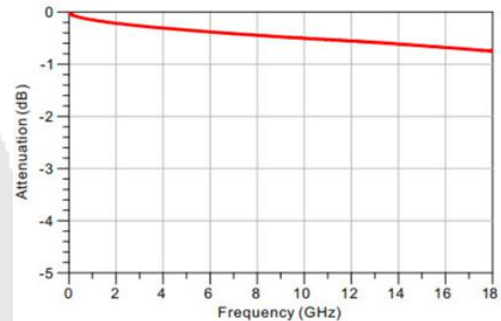


Figure 2: 16501290 attenuation(1 meter, 0~18 GHz)

Power handing	Figure 3
Phase stability vs. flexure (360°, diameter 55 mm)	<2.0 °el/GHz
Phase stability vs. temperature (-55~85°C)	<750 ppm
Insertion loss stability vs. shaking	±0.1 dB
Insertion loss stability vs. bending	±0.2 dB
Insertion loss stability vs. temperature	<0.2%/°C

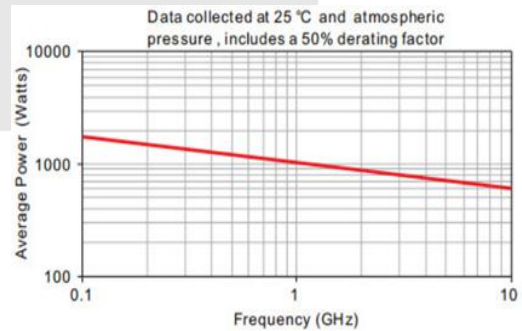


Figure 3: Average Power(0.1 ~ 10 GHz)

Engineering Your Needs

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 Mechanical / Environmental Characteristics:

16501047

Item	Specification
Weight	5.6 g/m
Min. bending radius static	6.4 mm
Min. bending radius repeated	15 mm
	-55~125°C
Crush resistance	8 kN/m dB
Tensile load	80 N

16501086

Item	Specification
Weight	13.1 g/m
Min. bending radius static	12.5 mm
Min. bending radius repeated	25 mm
Temperature range	-55~125 °C
Crush resistance	8 kN/m
Tensile load	100 N

16501140

Item	Specification
Weight	33 g/m
Min. bending radius static	12.5 mm
Min. bending radius repeated	25 mm
Temperature range	-55~125 °C
Crush resistance	8 kN/m
Tensile load	150 N

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16501190

Item	Specification
Weight	56 g/m
Min. bending radius static	12.5 mm
Min. bending radius repeated	25 mm
Temperature range	-55~125 °C
Crush resistance	8 kN/m
Tensile load	200 N

16501290

Item	Specification
Weight	131.7 g/m
Min. bending radius static	30 mm
Min. bending radius repeated	60 mm
Temperature range	-55~125 °C
Crush resistance	8 kN/m
Tensile load	175 N

16501311

Item	Specification
Weight	137.8 g/m
Min. bending radius static	30 mm
Min. bending radius repeated	60 mm
Temperature range	-55~125 °C
Crush resistance	6 kN/m
Tensile load	175 N