

# Cable Assemblies

- GL Series
- GUL Series
- Airborne Series
- MF Series
- SR Series
- SF Series
- Superior RG Series
- Specifying Assembly Length

- **GL Series**  
*Flexible Low Loss Microwave cable assembly*
  - GL140s
  - GL200
  - GL200s
  - GL200sC06

- **GUL Series**  
*Flexible Ultra Low Loss Microwave cable assembly*
  - GUL180
  - GUL200
  - GUL310

- **Airborne Series**  
*Airborne Microwave cable assembly*
  - GLA210
  - GULA320

- **MF Series**  
*Multiflex Microwave Cable Assembly*
  - MF085
  - MF141

- **SR Series**  
*Semi-Rigid Microwave Cable Assembly*
  - SR085
  - SR141

- **SF Series**  
*Semi-Flexible(handformable) Microwave Cable Assembly*
  - SF085
  - SF141

- **Superior RG Series**  
*Superior RG Microwave Cable Assembly*
  - GSR049



## GL Series

Flexible Low Loss  
Microwave Cable Assembly



## MF Series

Multiflex  
Microwave Cable Assembly

## GUL Series

Flexible Ultra Low Loss  
Microwave Cable Assembly



## SR Series

Semi-Rigid  
Microwave Cable Assembly



## Airborne Series

Airborne  
Microwave Cable Assembly

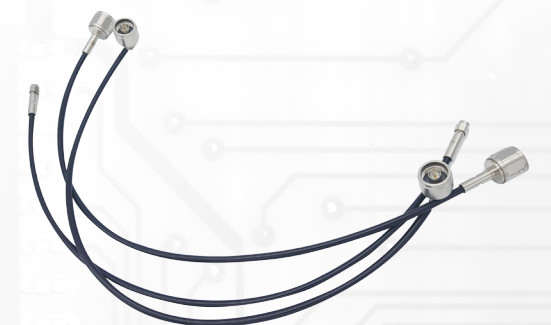


## SF Series

Semi-Flexible(Handformable)  
Microwave Cable Assembly

## Superior RG Series

Superior RG Microwave cable Assembly



# GL Series

Flexible Low Loss  
Microwave Cable Assembly

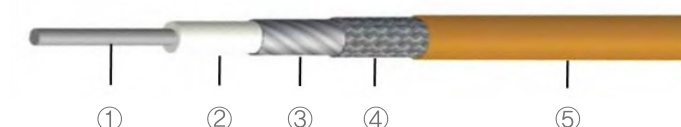
## GL140s Cable

Gigalane

### ► Features and benefits

- Frequency ranges from DC to 40 GHz
- Low Loss and Flexibility
- Durability
- Low density PTFE(extruded) dielectric
- Excellent shielding effectiveness and return loss
- Cost-efficient

### ► Cable Design



Description		Diameter (mm)
① Center conductor	Silver-plated copper wire, stranded	19 / 0.2
② Dielectric	Low density PTFE(extruded)	-
③ Inner shield	Silver-plated copper tape	-
④ Outer shield	Silver-plated copper braid	-
⑤ Jacket	Extruded FEP	4.10

#### Electrical

Impedance	50 Ω
Operating frequency	40 GHz
Capacitance	86 pF/m
Velocity of propagation	77 % nom.
Time delay	4.35 ns/m
RF leakage (dB)	<-100
Dielectric constant	1.7
Phase stability vs. flexure (@ 18 GHz Max.)	4°
IL stability vs. flexure(dB @ minimum BR)	± 0.3
Phase stability vs. temp. (deg / GHz / m) (- 40 ~ 80°)	< 2°

#### Mechanical & Environmental

Minimum bend radius (mm)	19.05
Weight (g/m)	50
Temperature	- 45°C to + 125°C

#### Suitable Connectors

Cable selection			Standard Connector selection					Max. VSWR		
			SMA type		N type		2.92mm type	Connector		
P/N	Frequency	Attenuation (dB/m)	Straight	R/A	Straight	R/A	Straight	ST to ST	ST to R/A	R/A to R/A
CGL141 (GL140sB02)	6 GHz	0.88	SMS114 SMS114B*	SMR114	NMS114	NMR114B	-	1.15	1.25	1.25
GL140sC	18 GHz	1.62	SMS122 SMS122B*	-	-	-	-	1.25	-	-
GL140sD	26.5 GHz	1.98	SMS115 SMS115B*	-	-	-	-	1.25	-	-
GL140sE	40 GHz	2.52	-	-	-	-	KMS116	1.43	-	-

\* Please refer to connector drawing on p97

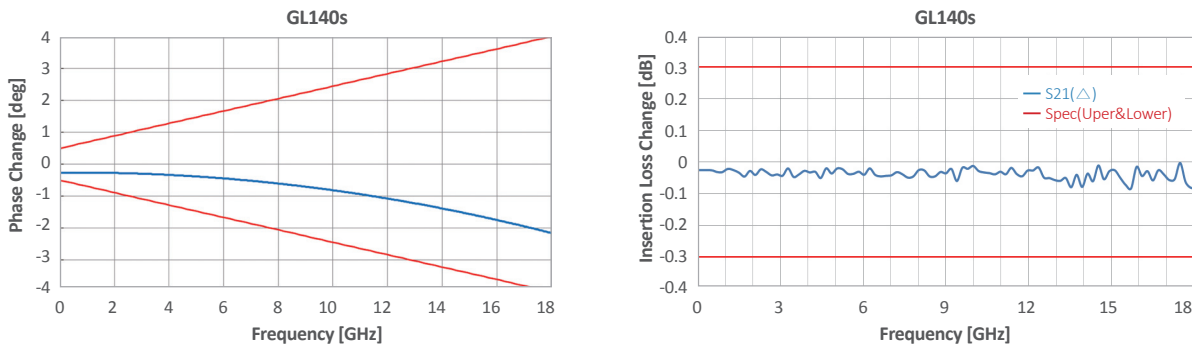
\* xxx xxxB : Shrink Tube Type ex) SMS114B

GigaLane GL Series cable assemblies perform in the range of frequency usage that is applicable up to 40 GHz. Center conductor consists of Stranded and Solid center conductor. By using Low density PTFE (extruded) dielectric, a value of the lowest insertion loss is extracted. These are specialized in providing excellent shielding effectiveness, flexibility and durability and supplied in fields of Commercial, Military RF & microwave airborne systems, Test & Measurement applications (Lab & Production line, Anechoic Chamber).

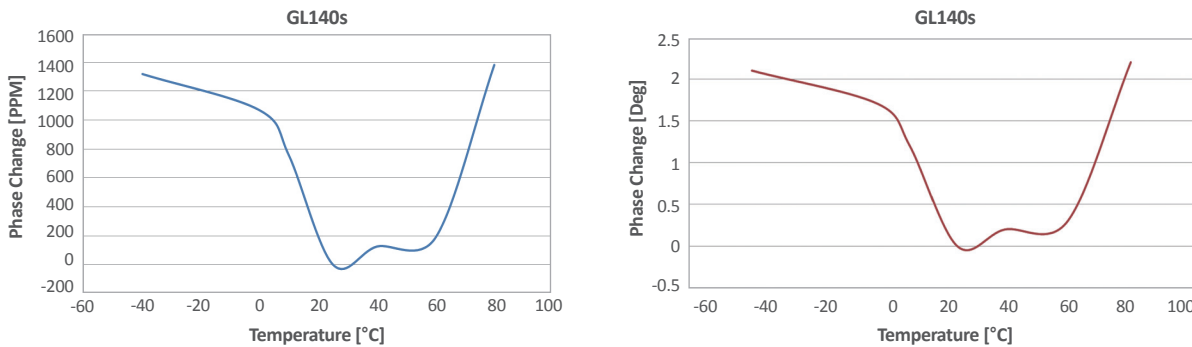
GigaLane provides two types of Neck type for GL cable assembly. One is sleeve type to strengthen the neck area of connector and gives a comfort grip which provides easiness in assembling connectors. Another is shrink tube type which is suitable for applying to small space.



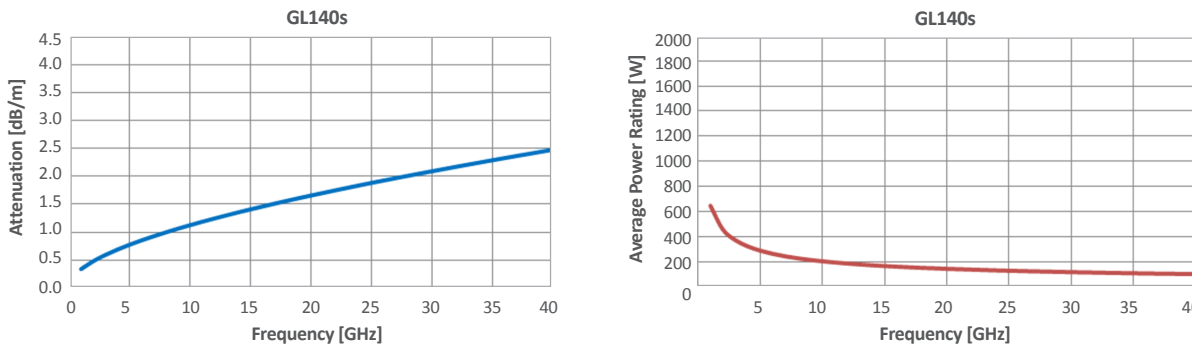
Cable Insertion & Stability with Flexure



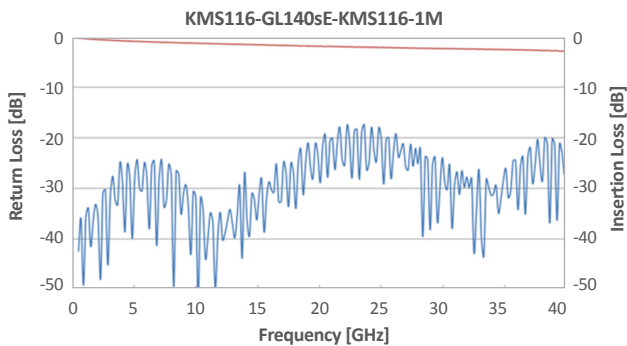
Cable Phase Stability with Temperature



Cable Attenuation & Power



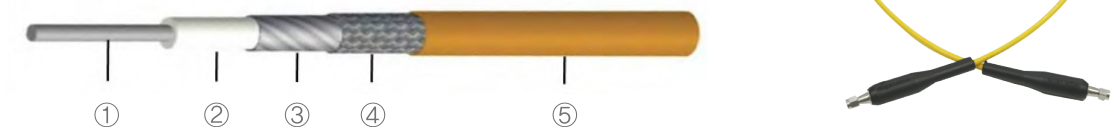
Test Result



Features and benefits

- Frequency ranges from DC to 26.5 GHz
- Low Loss and Flexibility
- Durability
- Low density PTFE(extruded) dielectric
- Excellent shielding effectiveness and return loss
- Cost-efficient

Cable Design



Description		Diameter (mm)	
		GL200	GL200s
① Center conductor	GL200 : Silver-plated copper wire, solid GL200s : Silver-plated copper wire, stranded	1.39	19/0.3
② Dielectric	Low density PTFE (extruded)	-	-
③ Inner shield	Silver-plated copper tape	-	-
④ Outer shield	Silver-plated copper braid	-	-
⑤ Jacket	Extruded FEP	5.70	5.70

Electrical	
Impedance	50 Ω
Operating frequency	18 GHz / 26.5GHz
Capacitance	85 pF/m
Velocity of propagation	77 % nom.
Time delay	4.35 ns/m
RF leakage (dB)	- 100
Dielectric constant	1.7
Phase stability vs. flexure (@ 18 GHz Max.)	5°
IL stability vs. flexure (dB @ minimum BR)	± 0.3
Phase stability vs. temp. (deg / GHz / m) (- 40 ~ 80°)	< 2°

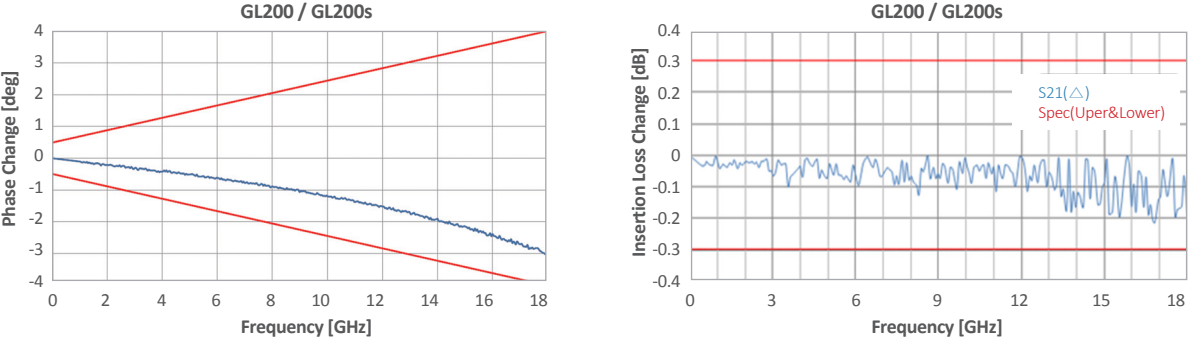
Mechanical & Environmental	
Minimum bend radius(mm)	29.2
Weight (g/m)	75
Temperature	- 45°C to + 125°C

Cable selection			Standard Connector selection					Max. VSWR		
P/N	Frequency	Attenuation (dB/m)	SMA type		N type		TNCA type	Connector		
			Straight	R/A	Straight	R/A	Straight	ST to ST	ST to R/A	R/A to R/A
GL200C	18 GHz	1.15	SMS111 SMS111B*	SMR111	NMS111 NFS111(Jack)	NMR111	G24SMC001	1.25	1.35	1.45
GL200D	26.5 GHz	1.43	SMS112 SMS112B*	-	-	-	-	1.25	-	-
GL200sC	18 GHz	1.19	SMS111 SMS111B*	SMR111	NMS111 NFS111(Jack)	NMR111	G24SMC001	1.25	1.35	1.45
GL200sD	26.5 GHz	1.45	SMS112 SMS112B*	-	-	-	-	1.25	-	-

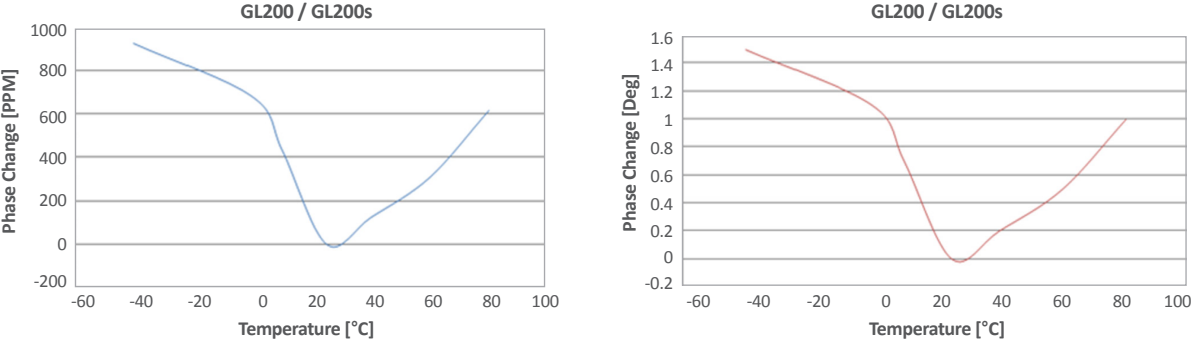
\* Please refer to connector drawing on p98 \* XXX XXXB : Shrink Tube ex) SMS111B



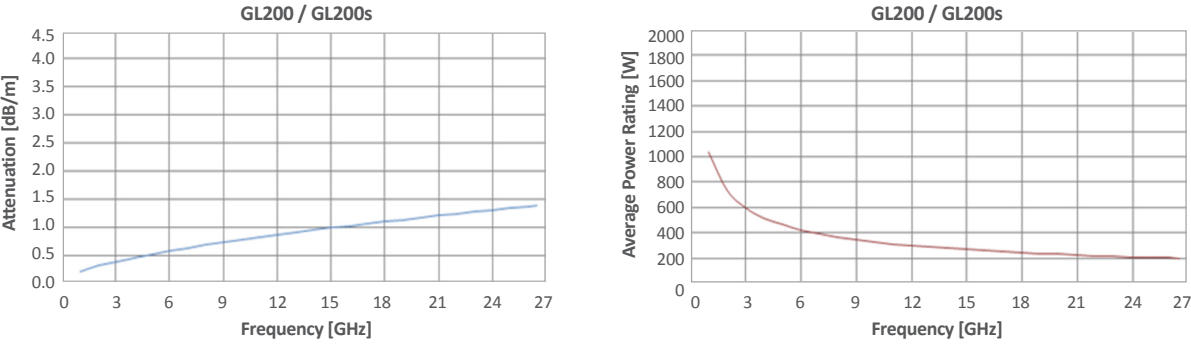
Cable Insertion & Stability with Flexure



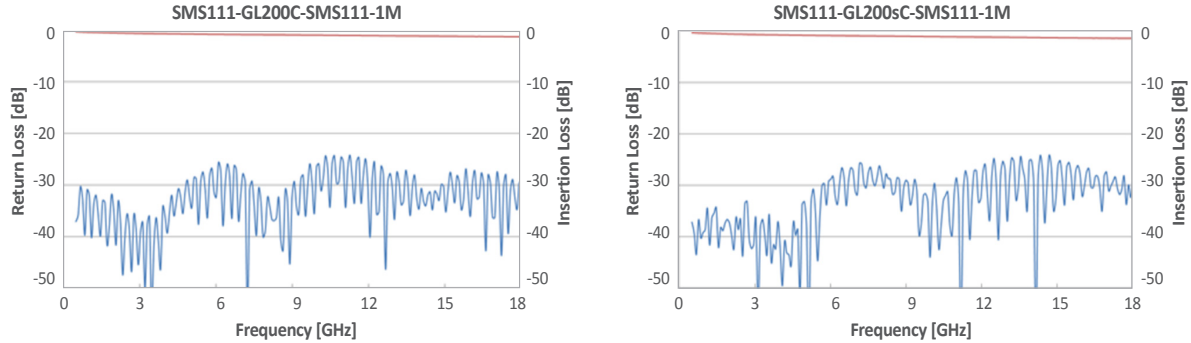
Cable Phase Stability with Temperature



Cable Attenuation & Power



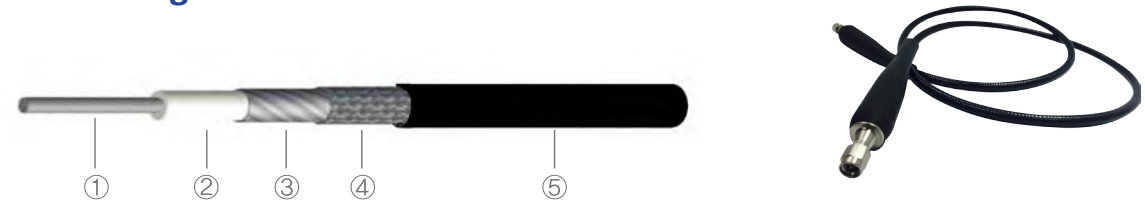
Test Result



Features and benefits

- Frequency ranges from DC to 26.5 GHz
- Low Loss and Highest Flexibility
- Durability
- Low density PTFE (extruded) dielectric
- Excellent shielding effectiveness and return loss
- Cost-efficient

Cable Design



Description		Diameter (mm)
① Center conductor	Silver-plated copper wire, stranded	19 / 0.3
② Dielectric	Low density PTFE(extruded)	-
③ Inner shield	Silver-plated copper tape	-
④ Outer shield	Silver-plated copper braid	-
⑤ Jacket	PUR, Black	6.10

Electrical	
Impedance	50 Ω
Operating frequency	18 GHz / 26.5GHz
Capacitance	85 pF/m
Velocity of propagation	77 % nom.
Time delay	4.35 ns/m
RF leakage (dB)	<-100
Dielectric constant	1.7
Phase stability vs. flexure (@ 18 GHz Max.)	5°
IL stability vs. flexure (dB @ minimum BR)	± 0.3
Phase stability vs. temp. (deg / GHz / m) (- 40 ~ 80°)	< 2 °

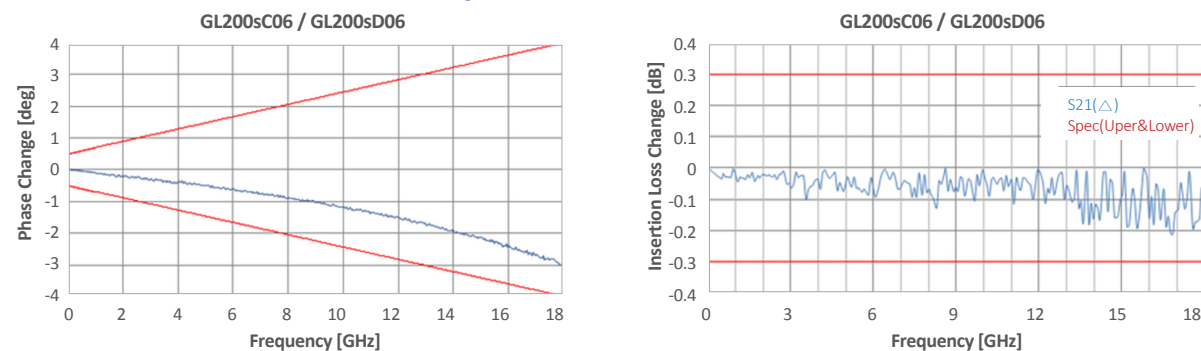
Mechanical & Environmental	
Minimum bend radius (mm)	29.2
Weight (g/m)	75
Temperature	- 30°C to + 85°C

Cable selection			Standard Connector selection			Max. VSWR		
P/N	Frequency	Attenuation (dB/m)	SMA type		N type		TNCA type	
			Straight	R/A	Straight	R/A	Straight	Connector
GL200sC06	18 GHz	1.19	SMS111	SMR111	NMS111	NMR111	G24SMC001	ST to ST
			SMS111B*		NFS111(Jack)			ST to R/A
GL200sD06	26.5 GHz	1.45	SMS112					R/A to R/A
			SMS112B*					

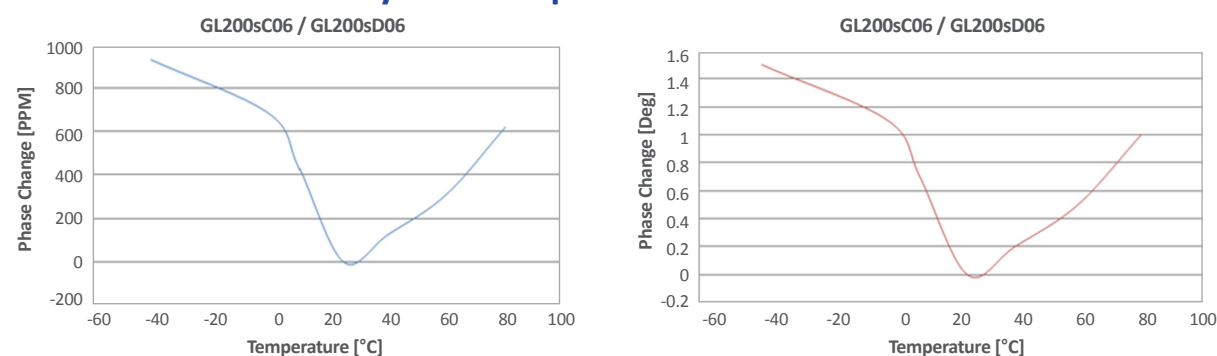
\* Please refer to connector drawing on p98 \* XXX XXXB : Shrink Tube ex) SMS111B

# GL200sC06 & GL200sD06

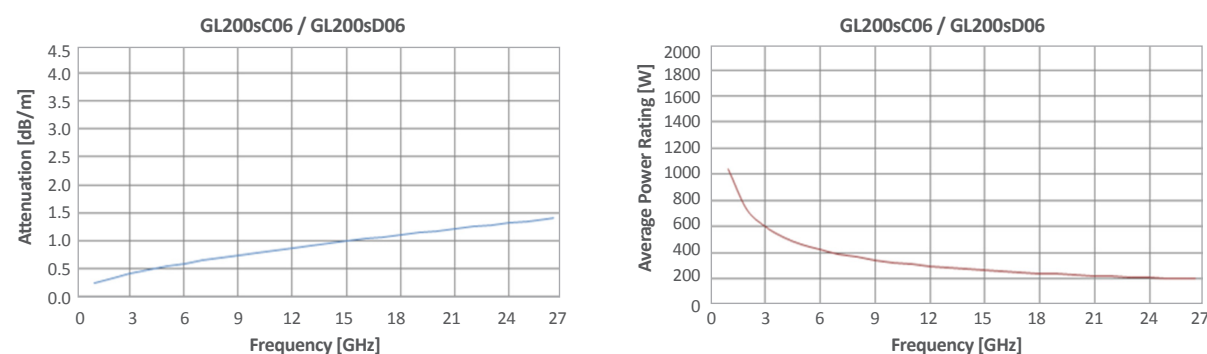
## ► Cable Insertion & Stability with Flexure



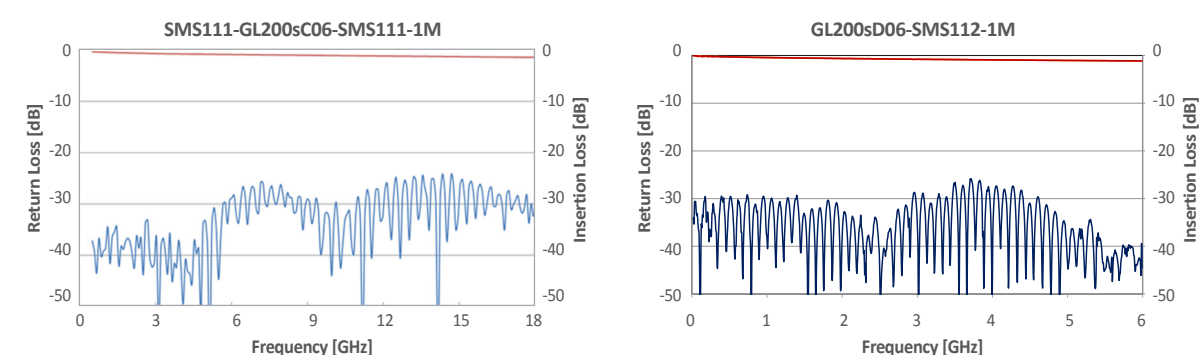
## ► Cable Phase Stability with Temperature



## ► Cable Attenuation & Power



## ► Test Result



# GUL Series

Flexible Ultra Low Loss  
Microwave Cable Assembly

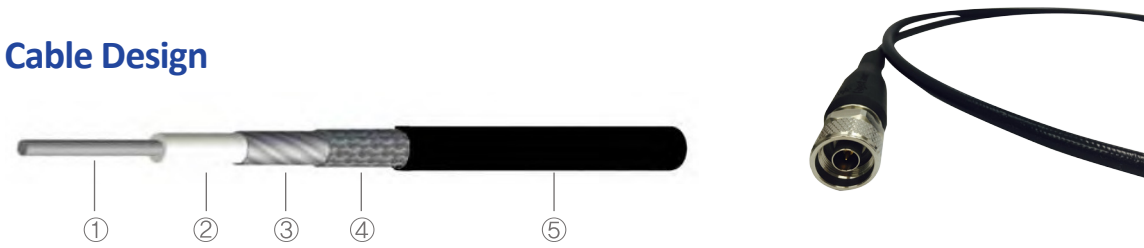


GigaLane GUL Series cable assemblies perform range of frequency usage is applicable up to 18 GHz. Center conductor consists of Solid center conductor, By using Ultra low density PTFE (taped) dielectric, it maintains its excellent phase stability and a value of the lowest insertion loss is extracted. These are specialized in providing excellent shielding effectiveness, flexibility and durability and supplied in fields of Commercial, Military RF & microwave airborne systems, Test & Measurement applications (Lab & Production line, Anechoic Chamber). GigaLane provides two types of Neck type for GL cable assembly. One is sleeve type to strengthen the neck area of connector and gives a comfort which provides easiness in assembling connectors. Another is shrink tube type which is suitable for applying to small space.

► Features and benefits

- Frequency ranges from DC to 18 GHz
  - Low Loss and Flexibility
  - Excellent shielding effectiveness
  - Cost-efficient
- Ultra low density PTFE(taped) dielectric
  - Excellent phase stability and lowest insertion loss
  - Durability

► Cable Design



Description		Diameter (mm)		
		GUL180	GUL200	GUL310
① Center conductor	Silver-plated copper wire, solid	1.29	1.39	2.35
② Dielectric	Ultra low density PTFE(taped)	-	-	-
③ Inner shield	Silver-plated copper tape	-	-	-
④ Outer shield	Silver-plated copper braid	-	-	-
⑤ Jacket	Extruded FEP	5.00	5.1	7.90

Electrical

Impedance	50 Ω
Operating frequency	18 GHz
Capacitance	78 pF/m
Velocity of propagation	82 % nom.
Time delay	3.95 ns/m
RF leakage (dB)	- 100
Dielectric constant	1.4
Phase stability vs. flexure (@ 18 GHz Max.)	3°
IL stability vs. flexure (dB @ minimum BR)	± 0.1
Phase stability vs. temp. (deg / GHz / m) (- 40 ~ 80°)	< 2 °

Mechanical & Environmental

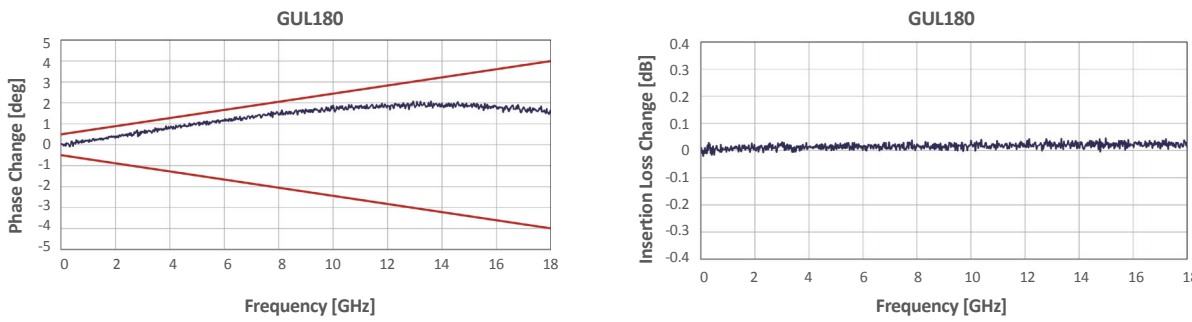
	GUL180	GUL200	GUL310
Minimum bend radius (mm)	25.4	25.4	48.5
Weight (g/m)	51	51	115
Temperature	- 45°C to + 125°C	- 45°C to + 125°C	- 45°C to + 125°C

Suitable Connectors

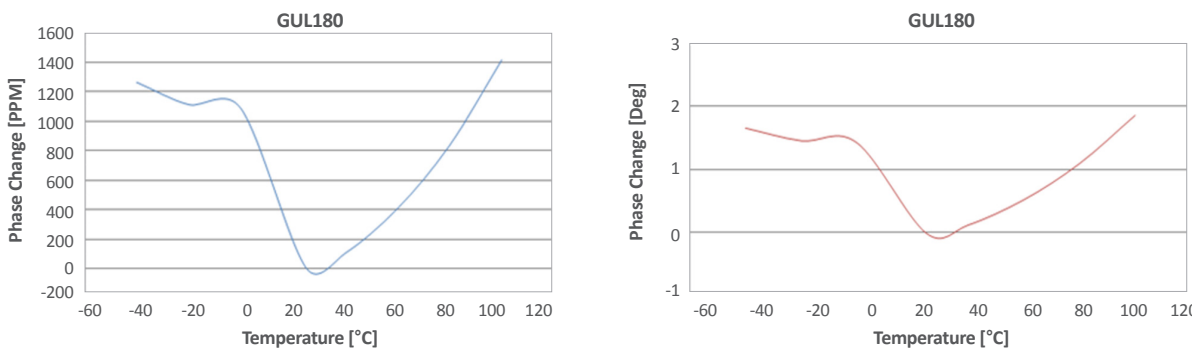
Cable selection			Standard Connector selection				max. VSWR		
			SMA type		N type		Connector		
P/N	Frequency	Attenuation (dB/m)	Straight	R/A	Straight	R/A	ST to ST	ST to R/A	R/A to R/A
GUL180	18GHz	1.4	SMS119	SMR119	NMS119	NMR119	1.25	1.35	1.45
GUL200	18GHz	1.14	SMS111	SMR111	NMS111	NMR111	1.25	1.35	1.45
GUL310	18 GHz	0.78	SMS120	SMR120B*	NMS120	NMR120B*	1.22	1.45	1.45

\* \* Please refer to connector drawing on p98                      \* XXX XXXB : Shrink Tube ex) SMS120B

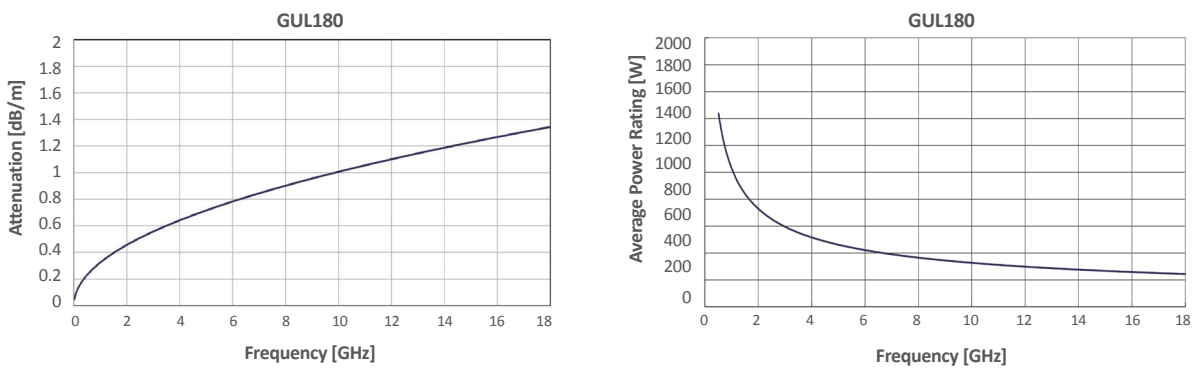
► Cable Insertion & Stability with Flexure



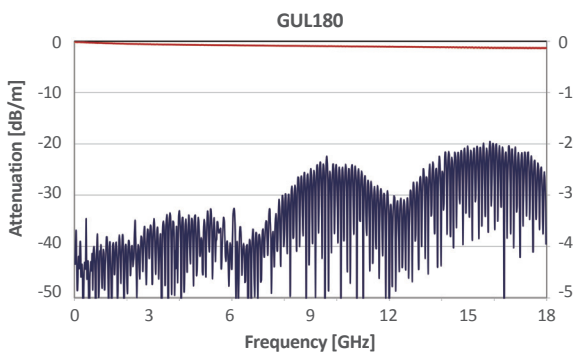
► Cable Phase Stability with Temperature



► Cable Attenuation & Power

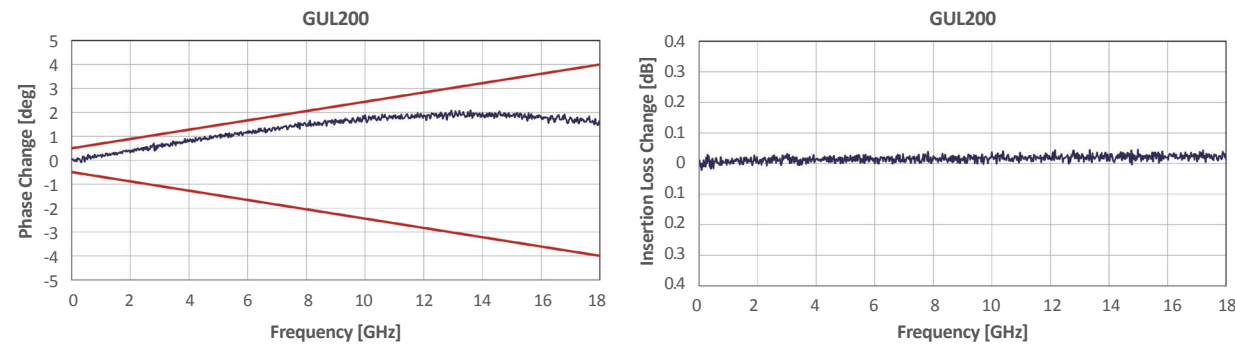


► Test Result

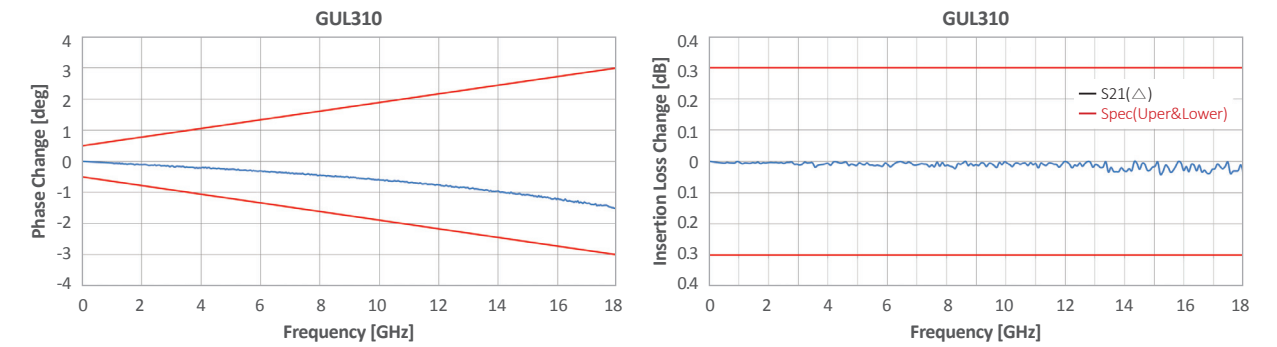




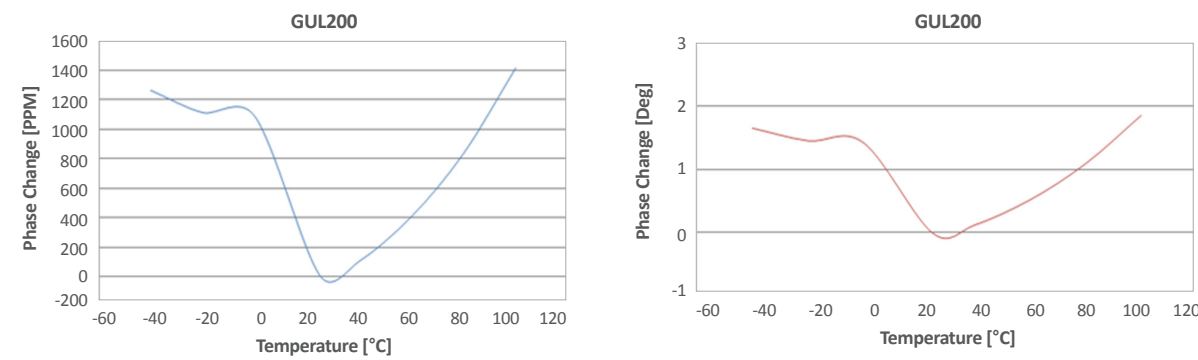
## Cable Insertion & Stability with Flexure



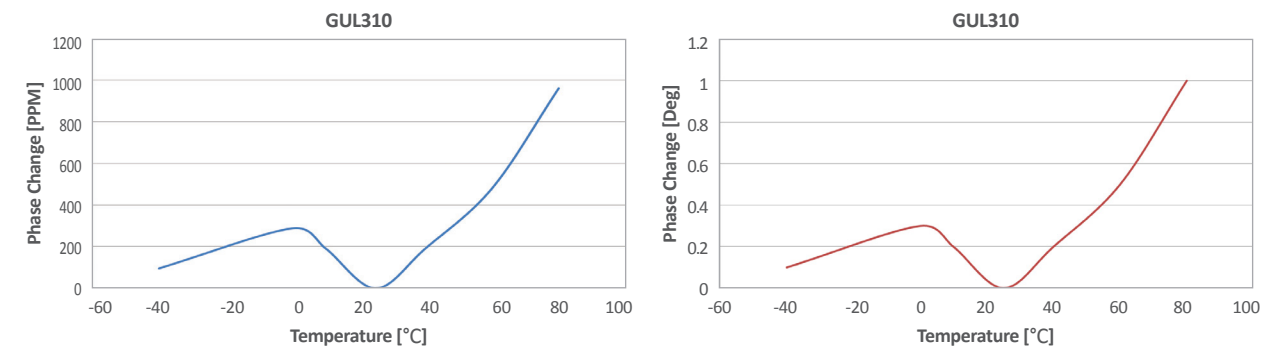
## Cable Insertion & Stability with Flexure



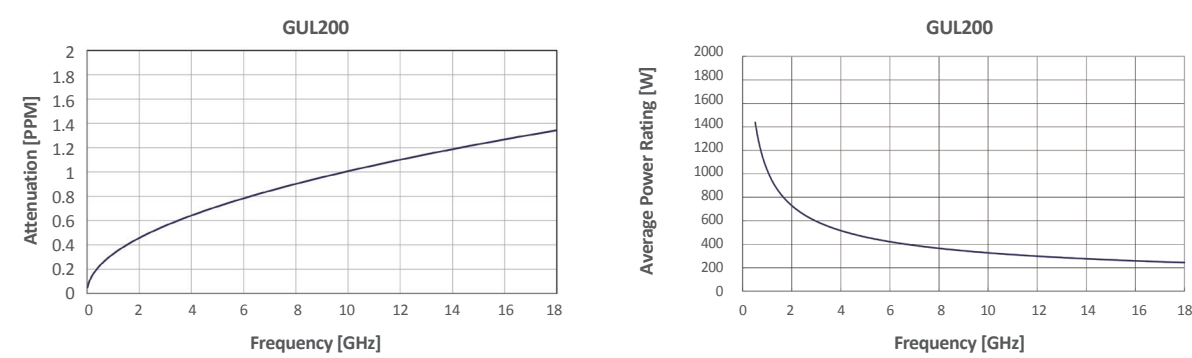
## Cable Phase Stability with Temperature



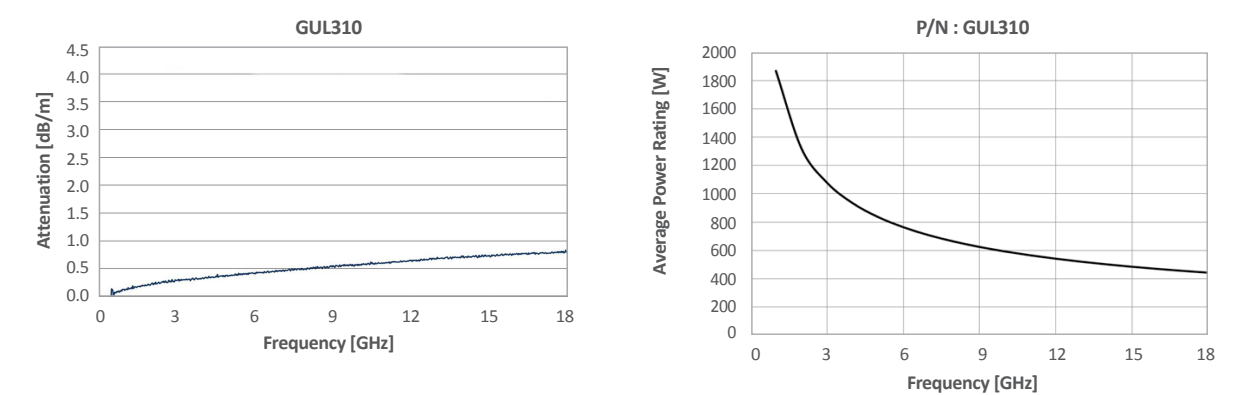
## Cable Phase Stability with Temperature



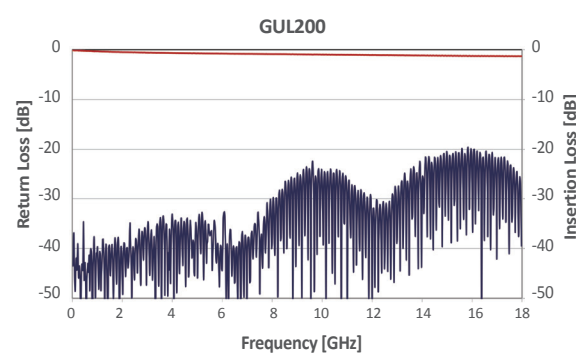
## Cable Attenuation & Power



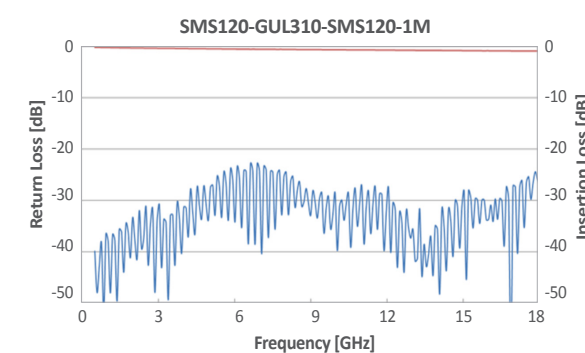
## Cable Attenuation & Power



## Test Result



## Test Result



# Airborne Series

Airborne  
Microwave Cable  
Assembly



GigaLane GLA & GULA cable assemblies have been developed and produced for aircraft and cover broad frequency ranges from DC to 18 GHz. These high qualities, low loss cable assemblies deliver a low VSWR of 1.35:1, feature a self-locking connector and are protected by a Nomex and Kevlar jacket, which offers abrasion resistance.

As required by the aircraft sector, the GLA & GULA cable assemblies must be lightweight, small in size and not sacrifice performance. All cables are designed to meet statutory aircraft requirements and are in compliance with MIL-T-81490, which enables the cable to withstand harsh environments over a long period of time.

The GLA & GULA cable assemblies have been developed to meet stringent communication standards with a cable design that is crushproof and hermetically sealed. Another advantage is that the cable assemblies also enable the connection of an ant rotation connector which is used in high vibration environment applications. GLA & GULA cable assemblies are also applicable to Helicopter, Trainer, UAV, Military, communication, aircraft antenna systems, Radar Systems, and satellite communications systems.

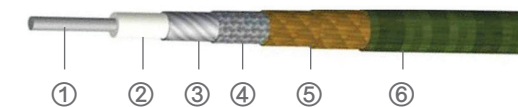
## GLA210 & GULA320 Cable

Gigalane

### ► Features and benefits

- Frequency ranges from DC to 18 GHz
- Hermetically sealed (vapor sealed)
- Compliance with MIL-T-81490
- Lightweight
- Anti rotation connector

### ► Cable Design



Description		Diameter (mm)	
		GLA210	GULA320
① Center conductor	GLA210 : Silver-plated copper clad Aluminum GULA320 : Silver-plated copper clad Aluminum	-	-
② Dielectric	GLA210 : Low density PTFE GULA320 : Ultra low density PTFE	-	-
③ Inner shield	Silver-plated copper tape	-	-
④ Outer shield	Silver-plated copper braid	-	-
⑤ Vapor layer	High temperature tape	-	-
⑥ Jacket	Nomex & Kevlar	5.90	8.00

### Electrical

	GLA210	GULA320
Impedance	50 Ω	50 Ω
Operating frequency	18 GHz	18 GHz
Capacitance	86 pF/m	78 pF/m
Velocity of propagation	77% nom.	84% nom.
Time delay	4.35 ns/m	3.95 ns/m
RF leakage (dB)	- 100	- 100
Dielectric constant	1.7	1.4

### Mechanical & Environmental

	GLA210	GULA320
Minimum bend radius (mm)	29.2	44
Weight (g/m)	60	95
Temperature	- 55°C to + 200 °C	- 55°C to + 200°C

### Suitable Connectors

Cable selection		Standard Connector selection								
		SMA type		TNCA type		N type		TNC type		Drawing Page
P/N	Frequency	Straight	R/A	Straight	R/A	Straight	R/A	Straight	R/A	
GLA210	3 GHz	-	-	-	-	-	-	TMS401M	TMR401M	103p
	18 GHz	-	-	TAMS402M	-	-	-	-	-	103p
GULA320	3 GHz	-	-	TAMS403M TAFS401M (Jack, Bulkhead)	TAFRA401M(45°) (Jack, Bulkhead)	-	NAMRA401M	-	-	103p
					TAFRA402M(90°) (Jack, Bulkhead)					
					TMR402M(45°) TAMRA401M(90°) TAMRA402M(90°) TAMRA403M(45°)					
	18 GHz	SMS401M	-	TAMS401M	-	-	-	-	-	103p



# MF Series

Multiflex  
Microwave Cable Assembly



GigaLane [MF cable assemblies](#) are complete products of flexible up to 40 GHz. MF cable is more flexible than SF cable and its cost effectiveness provides amicableness to Test Labs as well as test equipments where demand lots of replaceable cables.

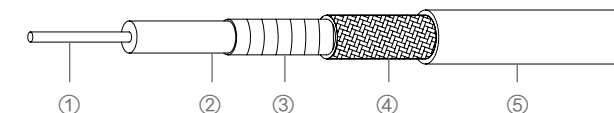
## MF085 & MF141 Cable

Gigalane

### ► Features and benefits

- Frequency ranges from DC to 40 GHz
- High Flexibility
- Cost-efficient

### ► Cable Design



Description		Diameter (mm)	
		MF085	MF141
① Center conductor	Silver-plated copper wire	0.51	0.92
② Dielectric	Solid PTFE	-	-
③ 1st outer conductor	Silver-plated copper tape	-	-
④ 2nd outer conductor	Silver-plated copper braid	-	-
⑤ Jacket	Fluorinated Ethylene Propylene, blue	2.68	4.14

### Electrical

	MF085	MF141
Impedance	50 Ω	50 Ω
Operating frequency	40 GHz	30 GHz
Capacitance	95 pF/m	95 pF/m
Velocity of propagation	70.6% nom.	70.6% nom.
Time delay	4.7 ns/m	4.7 ns/m
RF leakage (dB)	<-100	<-100

### Mechanical & Environmental

	MF085	MF141
Minimum bend radius (mm)	6	10
Weight (g/m)	21	45
Temperature	- 55°C to + 135°C	- 55°C to + 135°C

### Suitable Connectors

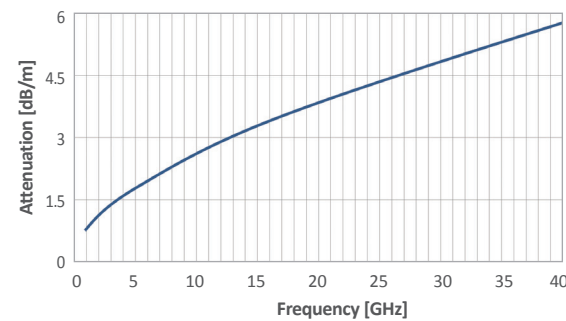
Cable selection		Standard Connector selection						
		SMA type		N type		2.92 mm type		Drawing Page
P/N	Frequency (GHz)	Straight	R/A	Straight	R/A	Straight	R/A	
MF085	18 GHz	SMS101 SFS101 (Jack) SBS101 (Jack, Bulkhead)	-	-	-	-	-	100p
	40 GHz	-	-	-	-	KMS101 KFS101 (Jack) KBS101 (Jack, Bulkhead)	-	100p
MF141	18 GHz	SMS102 SFS102 (Jack) SBS102 (Jack, Bulkhead)	-	NMS101	-	-	-	100p
	30 GHz	-	-	-	-	KMS103 KFS103 (Jack) KBS103 (Jack, Bulkhead)	-	100p



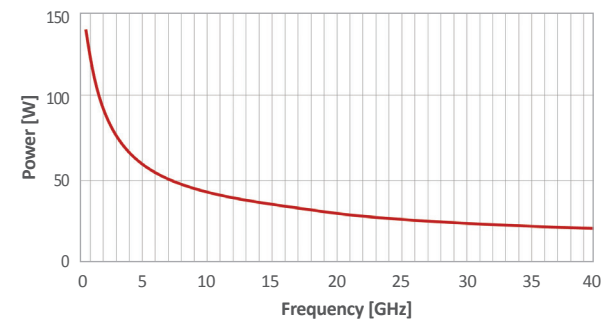
# MF085 & MF141 Cable

## ► Attenuation & Power

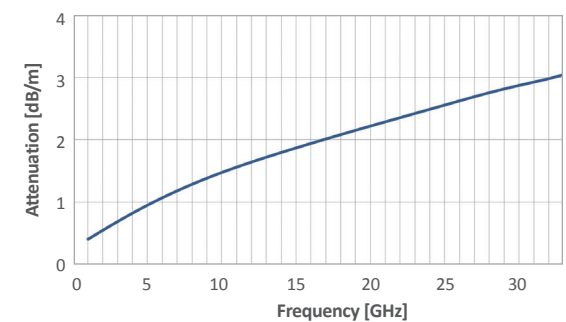
• MF085 Attenuation



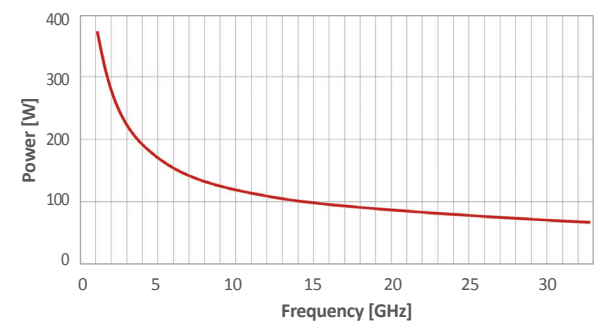
• MF085 Power



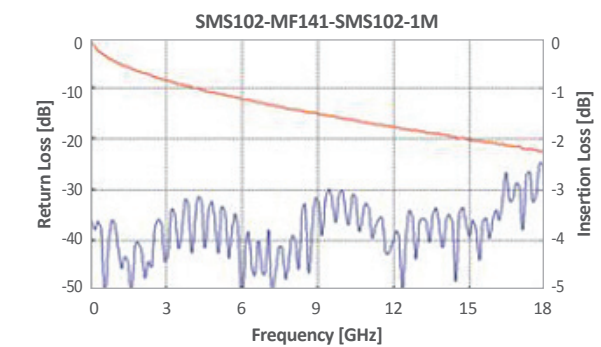
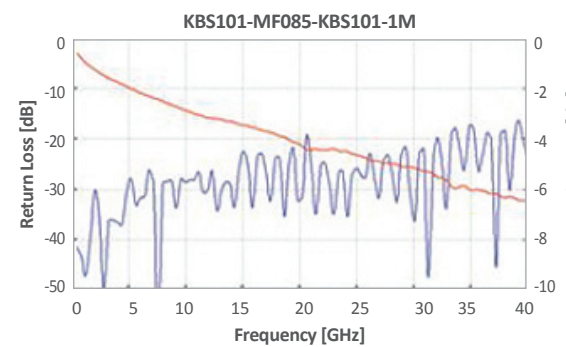
• MF141 Attenuation



• MF141 Power

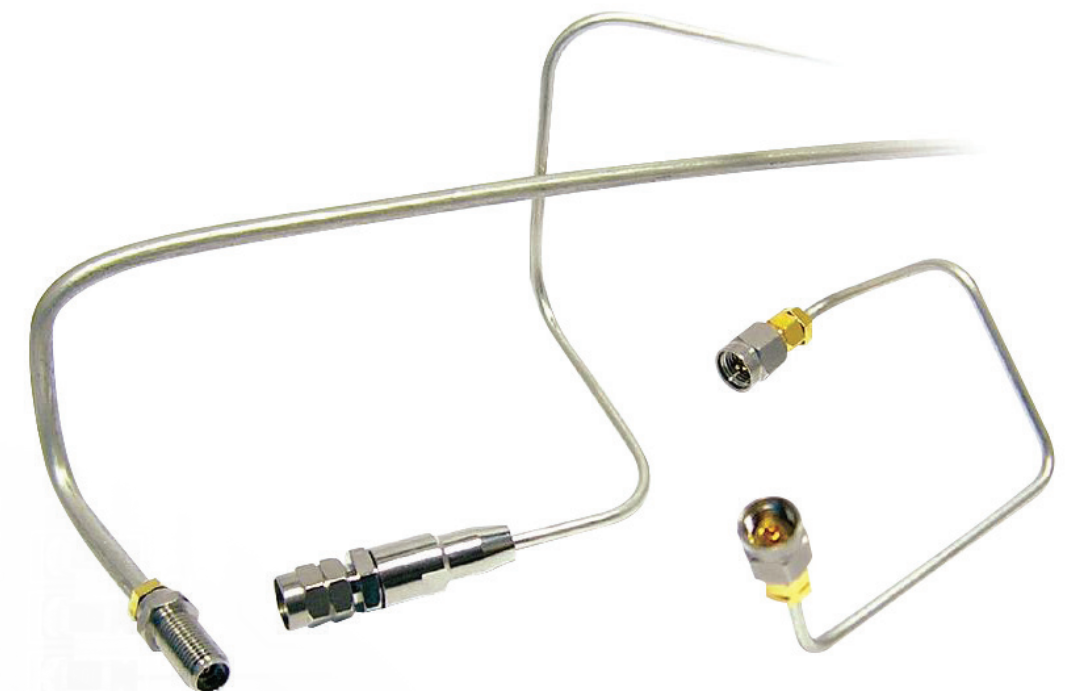


## ► Test Result



# SR Series

Semi-Rigid  
Microwave Cable Assembly

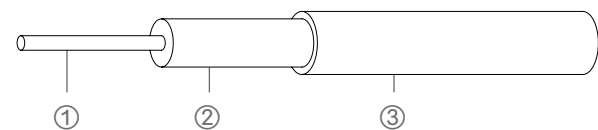


GigaLane [Semi-Rigid cable assemblies](#) lead to an excellent electrical performance up to 40 GHz. SR cable is easily bendable so that can be fitted into requested shapes while maintaining its set after bending. It is ideal for use with automated bending equipment as well as Hands of man power using bending tools.

► Features and benefits

- Frequency ranges from DC to 40 GHz
- Fits into the small systems
- Cost-efficient

► Cable Design



Description		Diameter (mm)	
		SR085	SR141
① Center conductor	Silver-plated copper wire	0.51	0.92
② Dielectric	Solid PTFE	-	-
③ 1st outer conductor	Seamless copper tubing, tin-plated	2.2	3.58

Electrical

	SR085	SR141
Impedance	50 Ω	50 Ω
Operating frequency	40 GHz	30 GHz
Capacitance	95 pF/m	95 pF/m
Velocity of propagation	69% nom.	69.5% nom.
Time delay	4.82 ns/m	4.82 ns/m
RF leakage (dB)	- 100	- 100

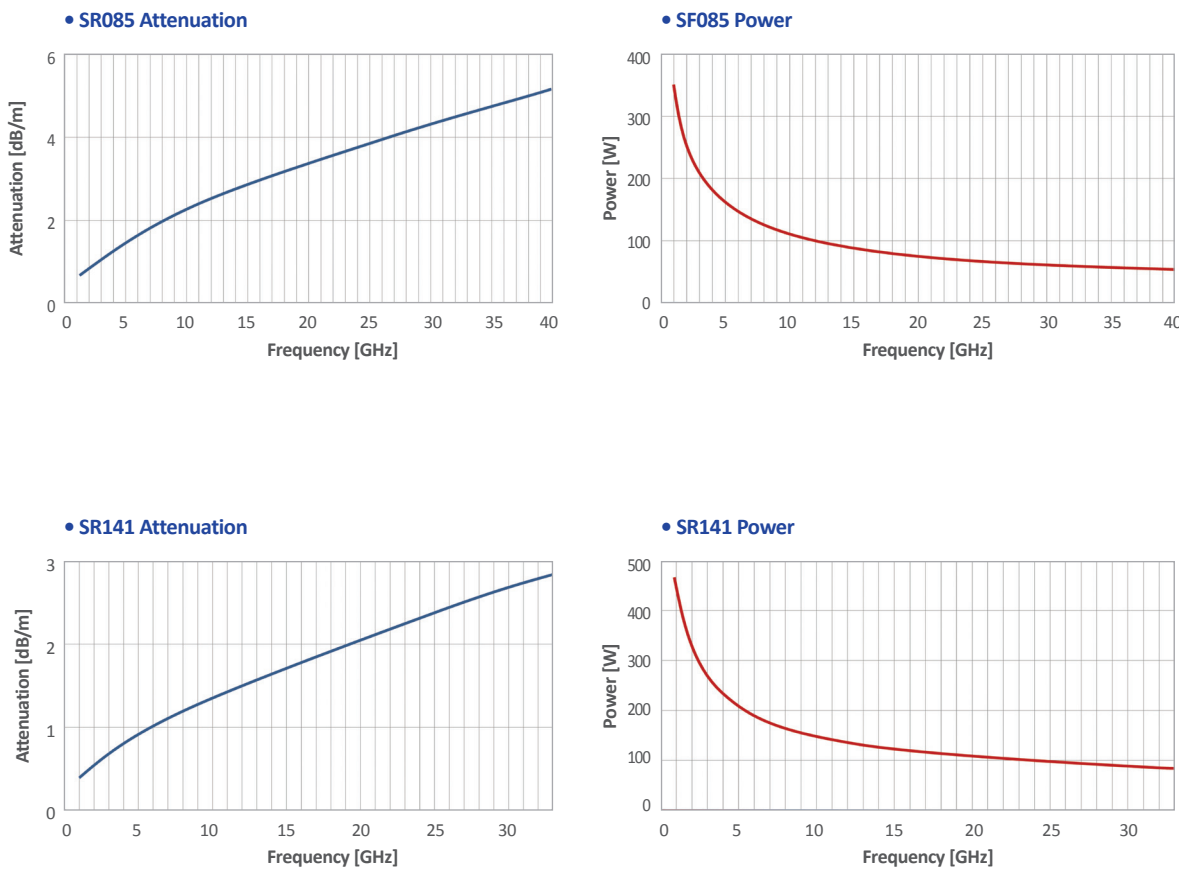
Mechanical & Environmental

	SR085	SR141
Minimum bend radius (mm)	3.18	6.35
Weight (g/m)	21	45
Temperature	- 40°C to + 125°C	- 40°C to 125°C

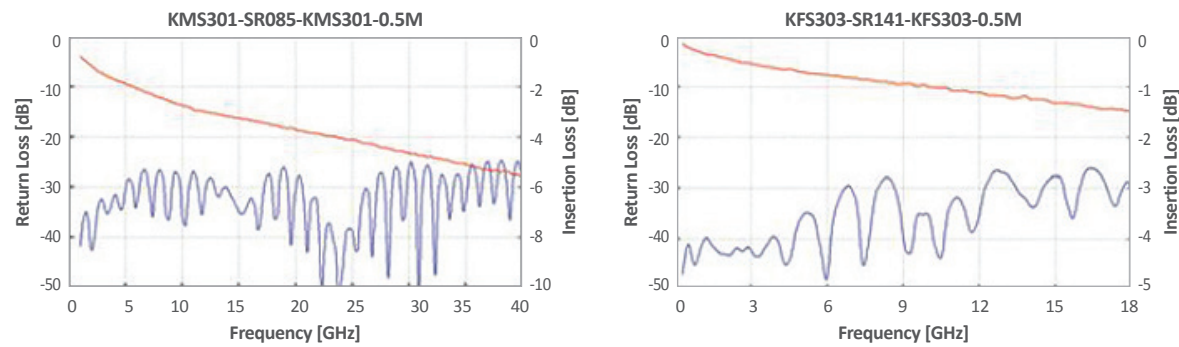
Suitable Connectors

Cable selection		Standard Connector selection						Drawing Page
		SMA type		N type		2.92 mm type		
P/N	Frequency (GHz)	Straight	R/A	Straight	R/A	Straight	R/A	
SR085	18 GHz	SMS302 SFS302 (Jack) SBS302 (Jack, Bulkhead)	-	-	-	-	-	101p
	40 GHz	-	-	-	-	KMS301 KFS301 (Jack) KBS301 (Jack, Bulkhead)	-	101p
SR141	18 GHz	SMS303 SFS303 (Jack) SBS303 (Jack, Bulkhead)	-	-	-	-	-	101p
	30 GHz	-	-	-	-	KMS303 KFS303 (Jack) KBS303 (Jack, Bulkhead)	-	101p

► Attenuation & Power



► Test Result





# SF Series

Semi-Flexible (handformable)  
Microwave Cable Assembly



GigaLane [Semi-Flexible cable assemblies](#) provide a complete high performance up to 40 GHz. The cable design is the same with SR Cable but have a tin-soaked copper braid for the outer conductor. it gives hand-formability and suitable where the coaxial cable fit into a tight space without performance loss.

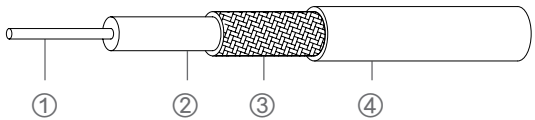
## SF085 & SF141 Cable

Gigalane

### ► Features and benefits

- Frequency ranges from DC to 40 GHz
- Hand-formability
- Good flexibility
- Cost-efficient

### ► Cable Design



Description		Diameter (mm)	
		SF085	SF141
① Center conductor	Silver-plated copper wire, Solid	0.52	0.94
② Dielectric	Solid PTFE	-	-
③ Outer Shield	Tinned Copper	-	-
④ Jacket	Fluorinated Ethylene Propylene	2.78	4.58

### Electrical

	SF085	SF141
Impedance	50 Ω	50 Ω
Operating frequency	40 GHz	30 GHz
Capacitance	95 pF/m	95 pF/m
Velocity of propagation	71% nom.	71% nom.
Time delay	4.7 ns/m	4.7 ns/m
RF leakage (dB)	- 100	- 100

### Mechanical & Environmental

	SF085	SF141
Minimum bend radius (mm)	6	10
Weight (g/m)	21	45
Temperature	- 40°C to + 125°C	- 40°C to + 125°C

### Suitable Connectors

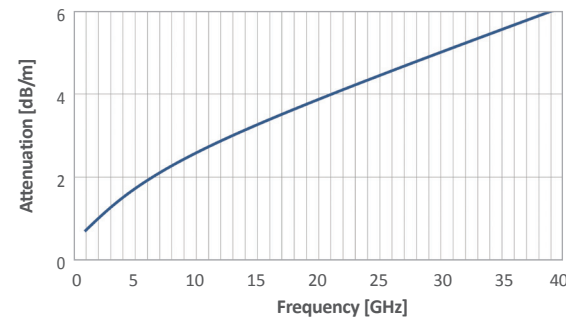
Cable selection		Standard Connector selection						
		SMA type		N type		2.92 mm type		Drawing Page
P/N	Frequency (GHz)	Straight	R/A	Straight	R/A	Straight	R/A	
SF085	18 GHz	G06SMC047 SFS302 (Jack) SBS302 (Jack, Bulkhead)	-	-	-	-	-	102p
	40 GHz	-	-	-	-	KMS301 KFS301 (Jack) KBS301 (Jack, Bulkhead)	-	102p
SF141	18 GHz	SMS303 SFS303 (Jack) SBS303 (Jack, Bulkhead)	-	-	-	-	-	102p
	30 GHz	-	-	-	-	KMS303 KFS303 (Jack) KBS303 (Jack, Bulkhead)	-	102p



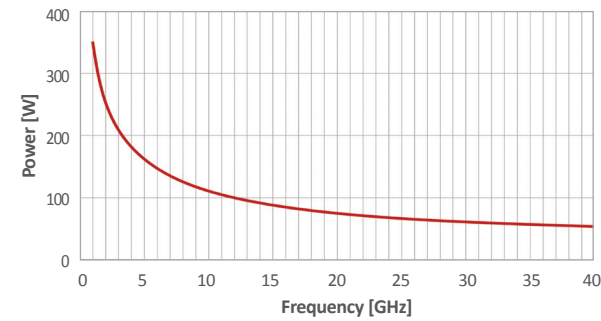
# SF085 & SF141 Cable

## ► Attenuation & Power

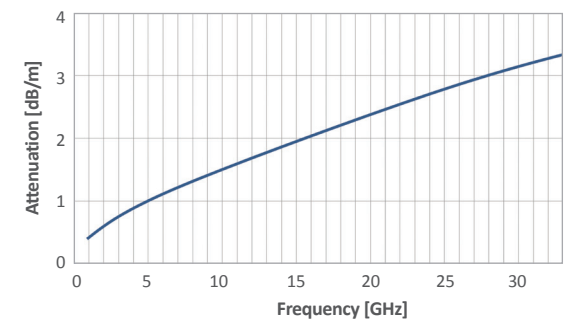
• SF085 Attenuation



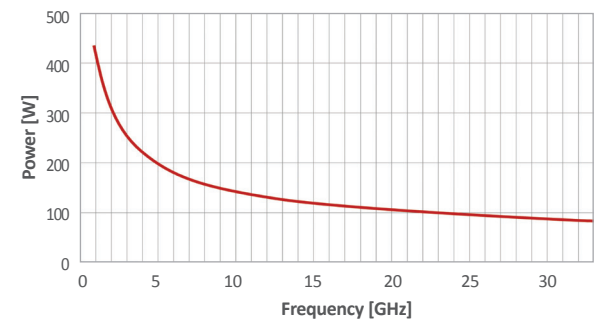
• SF085 Power



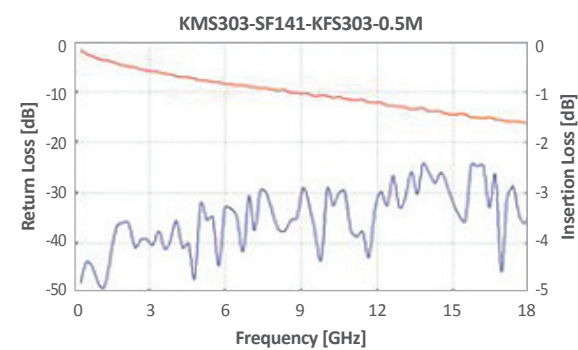
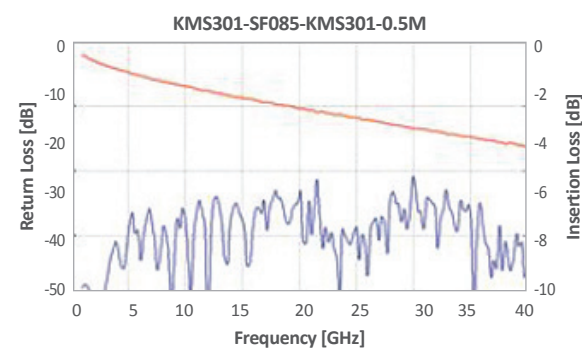
• SF141 Attenuation



• SF141 Power



## ► Test Result



# Superior RG Series

Microwave Cable Assembly

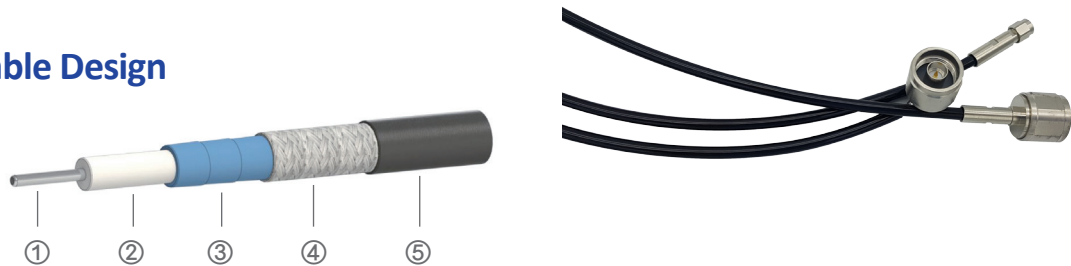


GigaLane [Superior RG Cable](#) assemblies are complete products of flexible up to 6 GHz. RG Cables provide low cost and flexibility.

► Features and benefits

- Frequency ranges from DC to 6 GHz
- Flexibility
- Cost-efficient

► Cable Design



Description		Diameter (mm)
① Center conductor	Silver-plated copper wire(Solid)	0.94 ± 0.22 mm
② Dielectric	Extrude PTFE	2.90 ± 0.10 mm
③ Inner shield	Aluminum tape	2.95 ± 0.10 mm
④ Outer shield	Tin-plated round copper wire, braid	3.41 ± 0.20 mm
⑤ Jacket	Polyurethane (PUR)	4.95 ± 0.30 mm

Electrical

Characteristic Impedance	50 ± 2 Ω
Operating Frequency	DC to 6 GHz
Velocity of	70 %
Weight	48 g/m

Mechanical & Environmental

Frequency [MHz]	Insertion Loss [dm/M]
800	- 0.38
900	- 0.39
1,800	- 0.60
1,900	- 0.62
2,000	- 0.64
2,100	- 0.65
5,000	- 1.09
6,000	- 1.20

Groups	Cable		Connector		Connector Drawings
	P/N	Frequency	Description	P/N	
Flexible Low Loss	CGL141 (GL140sB02)	6 GHz	Straight SMA PLUG (Sleeve type)	G06SMC065	
			Straight SMA PLUG (Shrink tube type)	SMS114B	
			Right Angle SMA PLUG (Shrink tube type)	SMR114B	
			Straight N PLUG (Sleeve type)	G07SMC049	
			Right Angle N PLUG (Shrink tube type)	NMR114B	
	GL140sC	18 GHz	Straight SMA PLUG (Sleeve type)	G06SMC067	
			Straight SMA PLUG (Shrink tube type)	G06SMC084	
	GL140sD	26.5 GHz	Straight SMA PLUG (Sleeve type)	G06SMC056	
			Straight SMA PLUG (Shrink tube type)	SMS115B	
	GL140sE	40 GHz	Straight 2.92 mm PLUG (Sleeve type)	G02SMC009	

Cable			Connector		Connector Drawings
Groups	P/N	Frequency	Description	P/N	
Flexible Low Loss	GL200C GL200sC GL200sC06	18 GHz	Straight SMA PLUG (Sleeve type)	G06SMC053	
			Straight SMA PLUG (Shrink tube type)	G06SMC079	
			Right Angle SMA PLUG (Sleeve type)	G06RMC027	
			Straight N PLUG (Sleeve type)	G07SMC013	
			Straight N JACK (Sleeve type)	G07SFC020M	
			Right Angle N PLUG (Sleeve type)	G07RMC007	
			TCNA Straight Plug	G24SMC001	
	GL200D GL200sD GL200sD06	26.5 GHz	Straight SMA PLUG (Sleeve type)	G06SMC054	
			Straight SMA PLUG (Shrink tube type)	G06SMC088	

Suitable Connectors for GUL Series

Cable			Connector		Connector Drawings
Groups	P/N	Frequency	Description	P/N	
Flexible Ultra Low Loss	GUL310	18 GHz	Straight SMA PLUG (Sleeve type)	SMS120 (G06SMC057)	
			Right Angle SMA PLUG (Sleeve type)	SMR120 (G06RMC029)	
			Straight N PLUG (Sleeve type)	NMS120 (G07SMC016)	
			Right Angle N PLUG (Sleeve type)	NMR120 (G07RMC009)	

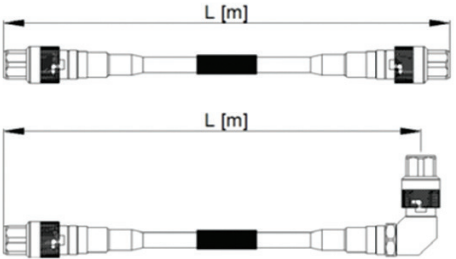
Cable			Connector		Connector Drawings
Groups	P/N	Frequency	Description	P/N	
Airborne	GLA210	3 GHz	Straight TNC PLUG	G20SMC004M	
			Right Angle TNC PLUG	G20RMC001M	
		18 GHz	Anti-Rotation Straight Self-locking TNCA PLUG (Hermetically Sealed)	G24SMC002M	
			Anti-Rotation Straight Self-locking TNCA PLUG (Hermetically Sealed)	G24SMC003M	
			Bulkhead Straight TNCA JACK (Hermetically Sealed)	G24SFC001M	
			Bulkhead Right Angle 45°C TNCA JACK (Hermetically Sealed)	TAIRA401M	
			Bulkhead Right Angle 90°C TNCA JACK (Hermetically Sealed)	G24RFC001M	
	GULA320	3 GHz	Right Angle 45°C TNCA PLUG (Hermetically Sealed)	G20AMC001M	
			Anti-Rotation Right Angle 90°C TNCA PLUG (Hermetically Sealed)	G24RMC001M	
			Anti-Rotation Right Angle 90°C TNCA PLUG (Hermetically Sealed)	G24RMC002M	
			Right Angle 45°C TNCA PLUG (Hermetically Sealed)	G24AMC001M	
			Right Angle 90°C N PLUG (Hermetically Sealed)	G07RMC001	
			Anti-Rotation Straight Self-locking SMA PLUG (Hermetically Sealed)	G06SMC062M	
			Anti-Rotation Straight Self-locking TNCA PLUG (Hermetically Sealed)	G24SMC001M	
		18 GHz			



Cable		Connector		Connector Drawings
Groups	P/N	Frequency	Description	
Multiflex	MF085	18 GHz	Straight SMA PLUG	
			Straight SMA JACK	
			Bulkhead Straight SMA JACK	
		40 GHz	Straight 2.92 mm PLUG	
			Straight 2.92 mm JACK	
			Bulkhead Straight 2.92 mm JACK	
	MF141	18 GHz	Straight SMA PLUG	
			Straight SMA JACK	
			Bulkhead Straight SMA JACK	
		30 GHz	Straight N PLUG	
			Straight 2.92 mm PLUG	
			Straight 2.92 mm JACK	
			Bulkhead Straight 2.92 mm JACK	

Cable		Connector		Connector Drawings
Groups	P/N	Frequency	Description	
Semi-Rigid	SR085	18 GHz	Straight SMA PLUG	
			Straight SMA JACK	
			Bulkhead Straight SMA JACK	
		40 GHz	Straight 2.92mm PLUG	
			Straight 2.92mm JACK	
			Bulkhead Straight 2.92mm JACK	
	SR141	18 GHz	Straight SMA PLUG	
			Straight SMA JACK	
			Bulkhead Straight SMA JACK	
		40 GHz	Straight 2.92mm PLUG	
			Straight 2.92mm JACK	
			Bulkhead Straight 2.92mm JACK	

Cable			Connector		Connector Drawings
Groups	P/N	Frequency	Description	P/N	
Semi-Flexible (Handformable)	SF085	18 GHz	Straight SMA PLUG	G06SMC058	
			Straight SMA JACK	G06SFC086	
			Bulkhead Straight SMA JACK	G06SFC079	
		40 GHz	Straight 2.92mm PLUG	G02SMC004	
			Straight 2.92mm JACK	G02SFC008	
			Bulkhead Straight 2.92mm JACK	G02SFC003	
	SF141	18 GHz	Straight SMA PLUG	G06SMC059	
			Straight SMA JACK	G06SFC087	
			Bulkhead Straight SMA JACK	G06SFC081	
		40 GHz	Straight 2.92mm PLUG	G02SMC006	
			Straight 2.92mm JACK	G02SFC010	
			Bulkhead Straight 2.92mm JACK	G02SFC005	



Guaranteed Length Tolerance	
0.3M ~ 2M (1ft ~ 6ft)	±10mm (±0.2 in.)
2.5M (6ft ~ 16ft)	±20mm (±0.2 in.)
5M ~ 10M (16ft ~ 33ft)	±30mm (±0.8 in.)
> 10M (33ft)	Consult

► Part Number Designation of GL / GUL Cable Series

**G L 200 s C 01 A**  
① ② ③ ④ ⑤ ⑥ ⑦

1st		2nd		3rd		4th		5th		6th		7th	
Company Name	Code	Dieltric	Code	Cable Diameter (inch x 1000)	Code	Center Conductor	Code	Frequency (GHz)	Code	Jacket	Code	Option 2	Code
Gigalane	G	Extruded	L	100	100	Solid	-	3	A	Orange-FEP	-	Unarmor	-
		Wrapping	UL	140	140	Stranded	s	6	B	Black,PUR	01	Aarmor	A
				200	200			18	C	Gray,HFPE	02		
				300	300			26.5	D	Black,FEP	03		
				180	180			40	E	Gray,FEP	04		
				310	310			50	F	Blue, FEP	05		
								67	G	Matte Black, PUP	06		
								110	H	Yellow & Black, PE	07		
											Standard	Option	

SM111	GL200C	SMS111	1M
Connector	Cable	Connector	Legth
①	②	①	③

- ① Select connector : SMS111 (18 GHz SMA Male Straight)  
② Select cable : GL200C (18 GHz Low Loss cable )  
③ Select cable length : 1M (1 meter)

► Part Number Designation of MF / SR / SF Cable Series

SMS302	SF085	SMS302	1M
Connector	Cable	Connector	Legth
①	②	①	③

- ① Select connector : SMS302 (18 GHz SMA Male Straight)  
② Select cable : SF085 (Semi-Flexible Cable)  
③ Select cable length : 1M(1 meter)