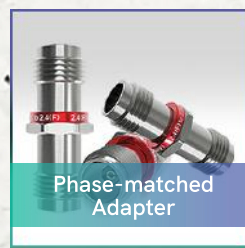
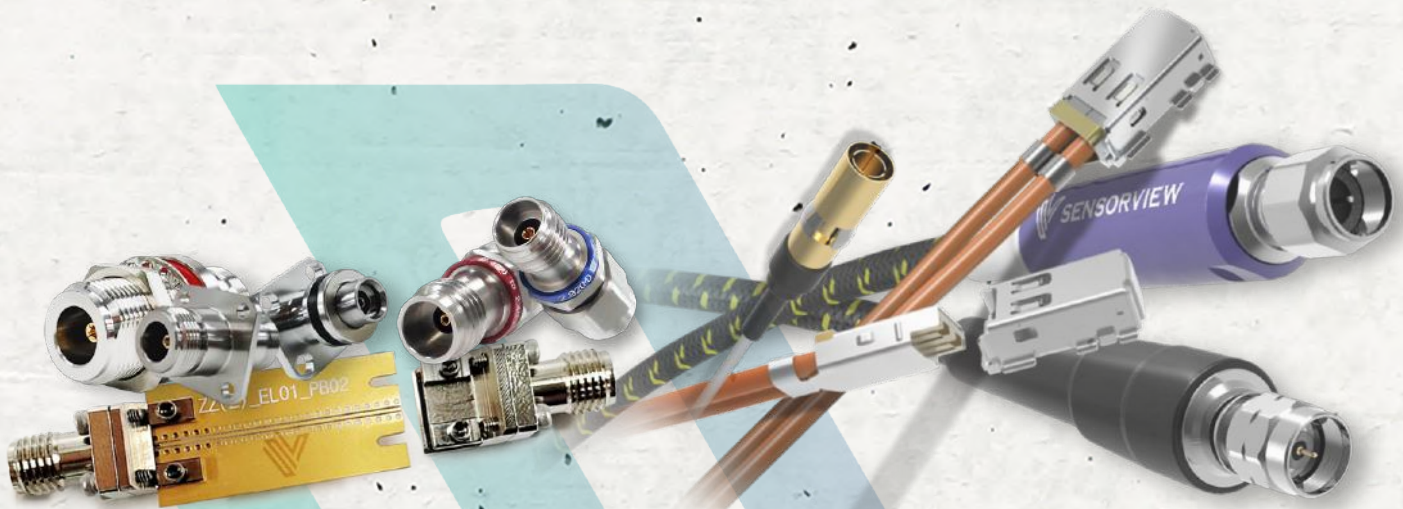


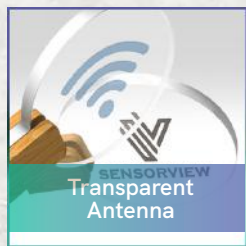
- Microwave Precision Cable
- Ultra-miniaturized Coaxial Cable / Connector for SMT
- 1.5mm Minimum Bend Radius Cable (67GHz)

Connectivity



Antenna

- Installation Antennas for mobile carrier
- Antenna Modules
- Test Antennas



We make your RF the BEST
SENSORVIEW

Vision

“
We make your
RF the BEST
”

Mission

“We design and manufacture high performance RF Interconnectors and Antenna. RF Designers and test engineers can leverage our products to make their RF performance best, on time.”

Core Capability


mmWave-oriented
passive RF design


mmWave-optimized
material fusion


Expertise in manufacturing
and testing up to 110GHz



Awards



SENSORVIEW
KOSDAQ IPO
(2023.7.19)



2021년 우수산업기술성과 최종 선정
Selected as a recipient of 2021
Industrial Technology
Achievements' by NAEK



2022 Preliminary
Unicorn Selection
(Ministry of SMEs
and Startups)



2023 CES
Innovation Awards
(Consumer
Technology
Association)



Innovative
Enterprise National
1000 (Ministry of
Land, Infrastructure
and Transport)

Accomplishments

Sensorview is discovering and developing various key technologies to lead the mmWave(5G) market. We are actively applying for patents/designs/trademarks for technical protection.

Domestic		Overseas		TOTAL
registration	application	registration	application	
72	110	35	62	279



Certifications

ISO 14001
Environment



ISO 9001
Quality



AS 9100
Aerospace Quality



SENSORVIEW Industries

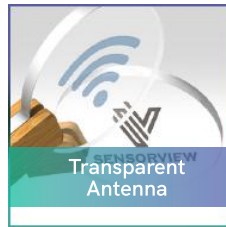
SENSORVIEW delivers a total solution platform service by providing material and design technologies and a technology to technology fusion platform for smart 5G connected devices.



5G Infrastructure

Ultra Wideband Antennas for in-building solutions. High-Gain antenna technologies.

In-Building Coverage



Transparent Antenna

Ultra Wide Band (617-960 / 1710-2690 / 3500 / 5800MHz)
Perfectly Camouflaged Antenna (Complaint Free)
Cost Reduction - 2 in 1 Concept (Antenna + Information Sign)



In-Building Antenna

Indoor Cell coverage solution for coverage optimization. For general service operator testing and building cell coverage. Meets indoor requirements, which vary greatly because not all environment are similar.

5G Network



mmWave Array Antenna

Our patented design. Gain+ delivers a higher gain and wider beam steering range vs. conventional antennas.

In-Building Coverage



mmWave Array Antenna

Our patented design. Gain+ delivers a higher gain and wider beam steering range vs. conventional antennas.



Micro-Coaxial Interconnector

Ultra compact Multi-Gang cable series that can carry a signal with low loss and near-zero EMI.



5G Wireless Device

TLIA® solution
Various IT applications and
a large market potential.

Smart TV



ST60 Antenna
Modules (SAM)

60GHz Wireless Connector.
High Speed (6.25Gbps), Low Power-Consumption
(mW level), and Short Range (5-20mm).
High Gain + Gain-Flatness + Improved Isolation
via Miniaturized Form Factor



5G Laptop



Micro-Coaxial
Interconnector

Ultra compact Multi-Gang cable
series that can carry a signal with
low loss and near-zero EMI.



ST60 Antenna
Modules (SAM)

60GHz Wireless Connector.
High Speed (6.25Gbps),
Low Power-Consumption (mW level),
and Short Range (5-20mm).
High Gain + Gain-Flatness + Improved
Isolation via Miniaturized Form Factor

5G Smartphone



TLIA®

Flex-S® (multi-line cable) and TLIA® (Transmission Line
Integrated Antenna) are made of low-loss materials and
designed with patent-protected technologies. They are
vital components in mmWave devices. FLEX-S® and
TLIA® bring low-loss and high quality performance.



HiFIX

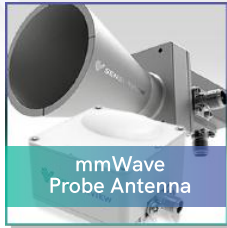
Superior Price and
Performance compared to
Third Party Products.



Semiconductor

SENSORVIEW's proprietary
solution.
Made possible by innovation
and patent ownership.

We make your RF the BEST
SENSORVIEW



mmWave
Probe Antenna

SENSORVIEW's miniature multi-band antenna solution. Optimized for 5G AUT in test & measurement.

- Minimizes chamber size
- Decreases expenditure
- Maximizes test performance



Low-loss phase-matched
Microwave Cable

SENSORVIEW's high-quality, high-performance coaxial cable assembly.

- Low Insertion Loss
- Phase Stability vs. Temperature
- Insertion Loss Stability vs. Bending
- Phase Stability vs. Bending
- Low VSWR



Phase-matched
Adapter

Phase-Matched adapter that meet MIL STD 348. Manufactured in a wide range within / between series. Matched adapter have the same nominal connector mating reference plane to reference plane length.



Precision RF
Connector

SENSORVIEW connectors are designed and manufactured to guarantee optimize end product performance/ We provide optimal transition for a low return loss. We can tailor connectors for specific equipment and applications.



Test & Measurement

Compact OTA Testing Size
Reduction SENSORVIEW's
Proprietary Antenna

Semiconductor Test Equipment

mmWave OTA Solutions

Network Analyzer



Low-loss phase-matched
Microwave Cable

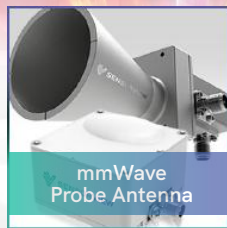
SENSORVIEW's high-quality, high-performance coaxial cable assembly.

- Low Insertion Loss
- Phase Stability vs. Temperature
- Insertion Loss Stability vs. Bending
- Phase Stability vs. Bending
- Low VSWR



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mmWave
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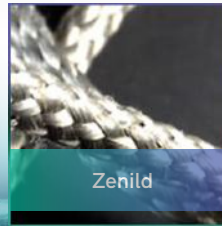


Aerospace & Defense

EMI-Shielding Solution
Military Aircraft,
and AESA Radars

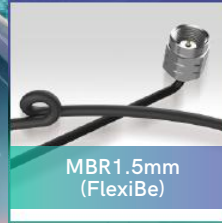


Missiles / Aircraft



Zenild

Our unique braiding technology, "Zenild®" provides superior shielding effectiveness VS copper wire and offers significant weight savings. Silver Plated Fiber delivers over 60% weight savings VS copper wire at equal volumes.



MBR 1.5mm (FlexiBe)

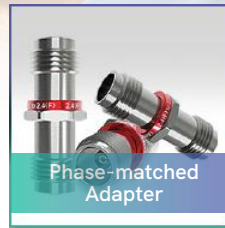
Bendable* Microwave Cable Wireless Connector.
Minimum Bend Radius 1.5mm
- DC to 67GHz
- Low-loss, EMI shielding
- MIL-STD compliant
- Outer Diameter 2mm

AESA Radar



Active Array Antenna

High Efficiency,
Massive Antenna Arrays.
Active Array Synthesis



Phase-matched Adapter

Phase-Matched Adaptors that meet MIL STD 348. Manufactured in a wide range within / between series. Matched adaptors have the same nominal connector mating reference plane to reference plane length.



Precision RF Connector

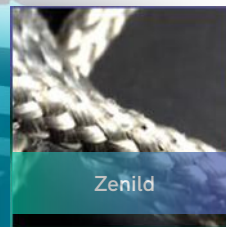
SENSORVIEW connectors are designed and manufactured to guarantee optimize end product performance / We provide optimal transition for a low return loss. We can tailor connectors for specific equipment and applications.

Connected Car

5G-Based Connected Car
Light- Weight,
EMI- Shielded



Autonomous Vehicles



Zenild

Our unique braiding technology, "Zenild®" provides superior shielding effectiveness VS copper wire and offers significant weight savings. Silver Plated Fiber Weights over 60% savings VS copper wire at equal volume Excellent.



mmWave Array Antenna

Our patented antenna design, "Gain+" performs higher gain and wider beam steering range compare with the conventional antennas.

We make your RF the BEST
SENSORVIEW



Your trusted partner
for 5G and **BEYOND-5G**

Microwave Cable & Connector



01. FlexStable[®]

Low Loss Microwave Cable
Excellent Flexibility
Phase & Amplitude Stability

02. Flex Armor[™]

High Crush resistance
Excellent Flexibility
Phase & Ampiltude Stability

03. Zenild[®]

Ultra Light Weight Material & Cable
High Screen Effectiveness

04. FlexiBe[®]

Minimum Bend Radius
Cable Assembly (MBR 1.5mm)

05. Micro Coaxial Cable for W-Band

047 Type Flexible Cable (DC ~ 110GHz)

06. Gannector[®]

Magnetic Connector Solution
Tool-Free & Quick Connector

07. End-Launch

Quick slide connector Bolt loss prevention

08. Connector & Adapter

Color Coded RF adapters
Phase Match / Flange / Customized

We make your RF the BEST
SENSORVIEW

FlexStable[®] Microwave Cable

SENSORVIEW FlexStable[®] microwave cable assembly series offer excellent performance providing various benefits to your specific needs.

Freq
DC to 67GHz

Low-loss

VP (Velocity of propagation) 77 to 84%

Phase-Stable
(vs. bending)

Phase-Matching
Under 1ps.

Cable Design & Core Material

SENSORVIEW designs and produces the cable & connector solutions for microwave & millimeterwave systems by incorporating inhouse material technologies which guarantee excellent electrical performance versus flexure and temperature variation.

Aeroflon[®] Dielectric

For low loss and stable electrical performance

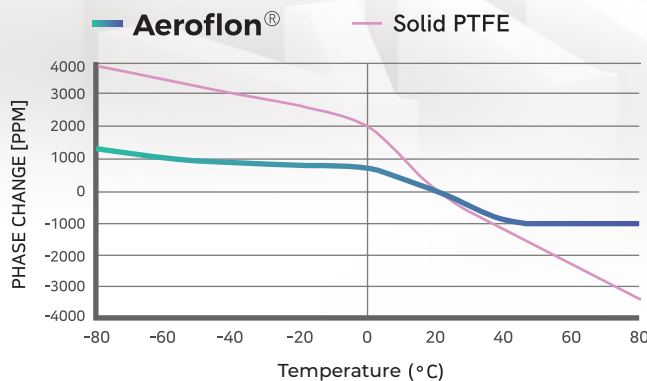
Sensorview has developed a new PTFE dielectric, named Aeroflon[®], demonstrating Dk (dielectric constant) about 1.6~1.7 and Df (loss tangent) about 0.0001@10GHz, which enables to achieve much lower loss in property of Microwave & mmWave coaxial cable compared to general PTFE cable.

Sensorview's Aeroflon[®] has a smaller "Knee" in its CTE (Coefficient of Thermal Expansion) profile around room temperature and remains the same even when exposed to extreme temperature, therefore, it is excellent to apply in harsh environment.

Aeroflon[®]



PTFE Knee Graph



Low insertion loss

Phase stable vs Temperature

Insertion loss stable vs flexure

Phase stable vs flexure

Low VSWR up to 67GHz



Microwave Cable & Connector

We make your RF the BEST



Relative matching

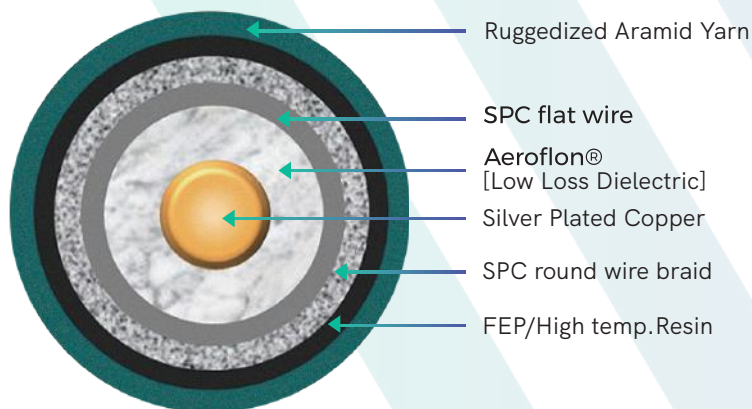
Relative matching matches phase between two (which is one pair) or more cable assemblies which belongs to one another. Therefore, it is manufactured as sets with relative phase tolerance.

Sensorview's default phase matching tolerance is $\pm 0.3^\circ/\text{GHz}$. (e.g. an 18GHz cable can be phase matched to $\pm 5.4^\circ$)

Absolute matching

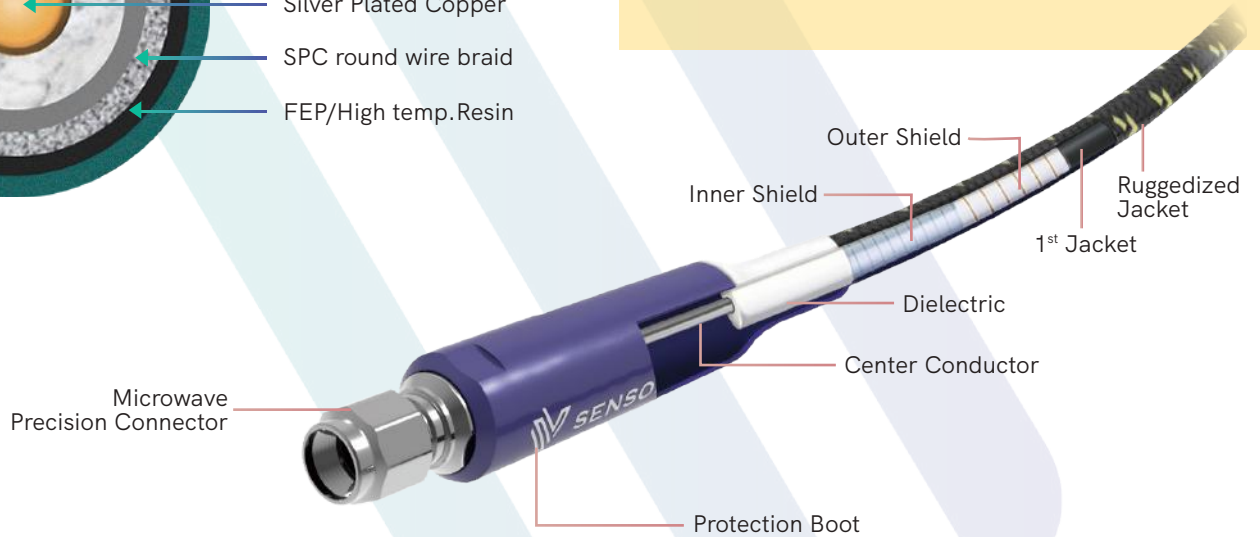
Absolute matching provides the matches in its assemblies to be at an absolute electrical length (Group delay). Any cable of a set can be replaced and manufactured in different location using any test equipment brand.

Structures



Ruggedized Flexible Low Loss Cable series

- Aramid Yarn Jacket / High Abrasion Resistance
- High temperature strength / High durability
- High operating frequency / Phase and I/L stability



Typical Applications

- Bench-top testing
- High throughput RF production testing
- Portable analyzers
- Test rack systems
- Vector Network Analyzers
- Scalar Network Analyzers
- Antenna ranges
- Anechoic chambers
- Thermal vacuum chambers
- Nearfield scanners
- Wireless telecommunication module testing
- ElectroMagnetic Compliance Testing
- Automated Test Equipment
- High speed digital test
- 5G test and interconnection

We make your RF the BEST
SENSORVIEW

FlexStable[®] Microwave Cable

SENSORVIEW FlexStable[®] microwave cable assembly series offer excellent performance providing various benefits to your specific needs.

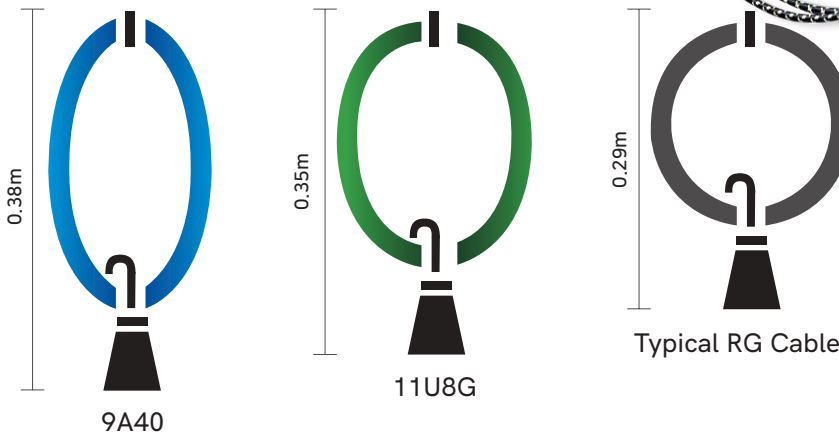
SUPER FLEXIBLE

DUT and condition

Tested cable : FlexStable(9A40), UltraRG(11U8G), Typical RG cable

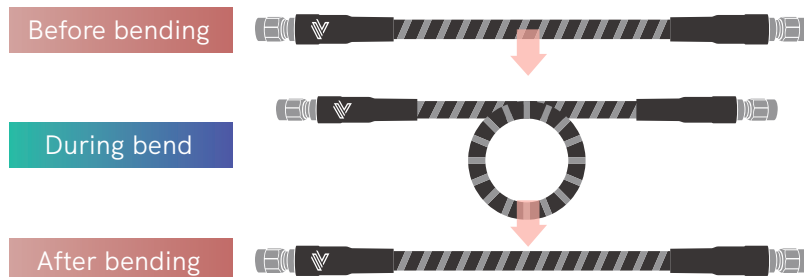
Test results

Test condition : 1meter, Weight 520gram, 25°C



More drooped the weights are, more flexible cable is. FlexStable shows the longest droop, which means it affects little force to connector and DUT, accordingly more stable and easy to use in a lab and bench, also convenient to install in a chamber.

PHASE STABILITY (VS. BENDING)



'Insertion loss' and 'phase change' are measured under a bended condition using a 'Minimum Bend Radius' mandrel.



We make your RF the BEST

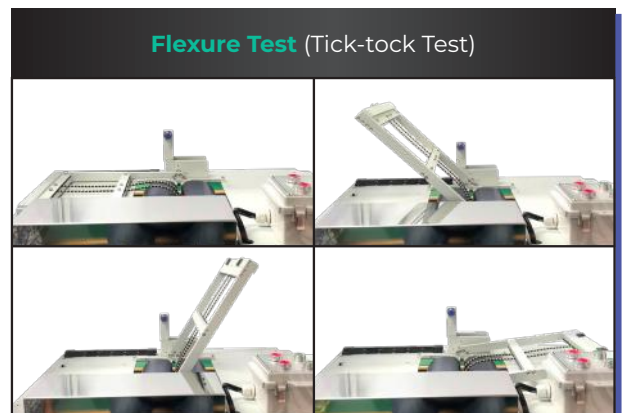
Microwave Cable & Connector



The Immortal Knight of The Cable World



Excellent High Flexibility
High Screening Effectiveness
>100dB @18GHz
High Crush Resistance :
81.6kgf/cm (457lbf/in)
Available Connector :
1.85mm(M),
1.85mm(F)



DC ~ 8GHz Series

Spec.



- Impedance (Nominal) : 50 ± 1 Ohm
- Velocity Propagation : 77% (Nominal)
- RF Leakage : -85dB
- Minimum Bend Radius [mm] : 25
- Phase Stability vs Flexure (Typical) : Max. 2° @ 8GHz
- Loss Stability vs Flexure (Typical) : ±0.05 dB

Type	Figure	Product Part Name	Center Conductor Type	Overall Outer Diameter [mm]	Weight [g/m]	Temperature Range [°C]	Typical Insertion Loss [dB/m]		Average Power Rating [Watt] @ 25°C at Sea Level			
							8GHz	8GHz	8GHz	8GHz		
<ul style="list-style-type: none"> Low Loss Super Flex Aramid Jacket 		11A8G	Stranded	5.8 ± 0.1	53	-50 ~ 135	-1.07		223			
<ul style="list-style-type: none"> Low Loss Super Flex Resin Jacket 		11S8G		5.2 ± 0.1	49.9							
<ul style="list-style-type: none"> Low Loss Flex FEP Jacket 		11F8G		4.9 ± 0.1	49.3	-50 ~ 125				190		
<ul style="list-style-type: none"> Low Loss Super Flex PUR Jacket 		11U8G		5.2 ± 0.1	53.3	-50 ~ 85				69		
<ul style="list-style-type: none"> Low Loss Flex Aramid Jacket 		11A8GD		Solid	5.8 ± 0.1	54				-50 ~ 135	-1.03	266
<ul style="list-style-type: none"> Low Loss Flex PUR Jacket 		11S8GD			5.2 ± 0.1	50.6						

Available Connector : SMA(ST, RA), N(ST, RA)



Microwave Cable & Connector

We make your RF the BEST



DC ~ 18GHz Series

- Impedance (Nominal) : 50 ± 1 Ohm
- Velocity Propagation : 77% (Nominal, 13x26, 9S18G, 9F18GD) | 84% (Nominal, 23F18WD)
- RF Leakage : -100dB (13x26) | -85dB (9S18G, 9F18GD)
- Minimum Bend Radius [mm] : 30 (13x26) | 15 (9S18G) | 20 (9F18GD)
- Phase Stability vs Flexure (Typical) : Max. 10° @ 18GHz (13x26, 9S18GD, 23F18WD) | Max. 18° @ 18GHz (9F18GD)
- Loss Stability vs Flexure (Typical) : ±0.1 dB

Spec.



Type	Figure	Product Part Name	Center Conductor Type	Overall Outer Diameter [mm]	Weight [g/m]	Temperature Range [°C]	Typical Insertion Loss [dB/m]		Average Power Rating [Watt] @ 25°C at Sea Level		
							18GHz	18GHz	18GHz	18GHz	
<ul style="list-style-type: none"> Low Loss Super Flex Aramid Jacket 		13R26	Stranded	9.7 ± 0.3	192	-50 ~ 135	-1.23				
<ul style="list-style-type: none"> Low Loss Super Flex Aramid Jacket 		13A26		6.7 ± 0.1	81	-50 ~ 135					184
<ul style="list-style-type: none"> Low Loss Super Flex FEP Jacket 		13S26		6.2 ± 0.1	73	-50 ~ 135					130
<ul style="list-style-type: none"> Low Loss Flex FEP Jacket 		13F26		5.7 ± 0.1	56.2	-50 ~ 125					149
<ul style="list-style-type: none"> Low Loss Super Flex Resin Jacket 		9S18G		4.2 ± 0.1	34.4	-50 ~ 135					130
<ul style="list-style-type: none"> Low Loss Flex FEP Jacket 		9F18GD	Solid	3.8 ± 0.1	33	-50 ~ 125	-1.72	155			
<ul style="list-style-type: none"> Low Loss Flex FEP Jacket 		23F18WD		7.68 ± 0.1	130	-50 ~ 135	-0.75	377			

Available Connector : SMA(ST), N(ST), TNC(ST)



DC ~ 26.5GHz Series

Spec.



- Impedance (Nominal) : 50 ± 1 Ohm
- Velocity Propagation : 77% (Nominal)
- RF Leakage : -100dB
- Minimum Bend Radius [mm] : 30
- Phase Stability vs Flexure (Typical) : Max. 10° @ 26.5GHz
- Loss Stability vs Flexure (Typical) : ±0.1 dB

Type	Figure	Product Part Name	Center Conductor Type	Overall Outer Diameter [mm]	Weight [g/m]	Temperature Range [°C]	Typical Insertion Loss [dB/m]		Average Power Rating [Watt] @ 25°C at Sea Level
							26.5GHz	26.5GHz	26.5GHz
<ul style="list-style-type: none"> Low Loss Super Flex Aramid Jacket 		13R26	Stranded	9.7 ± 0.3	192	-50 ~ 135	-1.55	155	
<ul style="list-style-type: none"> Low Loss Super Flex Aramid Jacket 		13A26		6.7 ± 0.1	81				
<ul style="list-style-type: none"> Low Loss Super Flex Resin Jacket 		13S26		6.2 ± 0.1	73				
<ul style="list-style-type: none"> Low Loss Flex FEP Jacket 		13F26		5.7 ± 0.1	56.2				
<ul style="list-style-type: none"> Low Loss Super Flex Armor Jacket 		13R26D	Solid	9.7 ± 0.3	193	-50 ~ 135	-1.55	183	
<ul style="list-style-type: none"> Low Loss Super Flex Armor Jacket 		13A26D		6.7 ± 0.1	82				
<ul style="list-style-type: none"> Low Loss Super Flex Resin Jacket 		13S26D		6.2 ± 0.1	74				
<ul style="list-style-type: none"> Low Loss Flex FEP Jacket 		13F26D		5.7 ± 0.1	57.2				

Available Connector : HFSMA(ST), 3.5mm(ST)



Microwave Cable & Connector

We make your RF the BEST



DC ~ 33GHz Series

Spec.



- Impedance (Nominal) : 50 ± 1 Ohm
- Velocity Propagation : 77% (Nominal)
- RF Leakage : -100dB
- Minimum Bend Radius [mm] : 25
- Phase Stability vs Flexure (Typical) : Max. 10° @ 33GHz
- Loss Stability vs Flexure (Typical) : ±0.1 dB

Type	Figure	Product Part Name	Center Conductor Type	Overall Outer Diameter [mm]	Weight [g/m]	Temperature Range [°C]	Typical Insertion Loss [dB/m]		Average Power Rating [Watt] @ 25°C at Sea Level	
							33GHz	33GHz	33GHz	33GHz
<ul style="list-style-type: none"> ■ Low Loss ■ Super Flex ■ Armor Jacket 		11R33	Stranded	9.7 ± 0.3	172					121
<ul style="list-style-type: none"> ■ Low Loss ■ Super Flex ■ Aramid Jacket 		11A33		5.7 ± 0.1	59					
<ul style="list-style-type: none"> ■ Low Loss ■ Super Flex ■ Resin Jacket 		11S33		5.3 ± 0.1	53					
<ul style="list-style-type: none"> ■ Low Loss ■ Super Flex ■ Armor Jacket 		11R33D	Solid	9.7 ± 0.3	173	-40 ~ 125	-2.03			143
<ul style="list-style-type: none"> ■ Low Loss ■ Super Flex ■ Aramid Jacket 		11A33D		5.7 ± 0.1	59.2					
<ul style="list-style-type: none"> ■ Low Loss ■ Super Flex ■ Resin Jacket 		11S33D		5.3 ± 0.1	53.2					

Available Connector : HFSMA(ST)



DC ~ 40GHz Series

Spec.



- Impedance (Nominal) : 50 ± 1 Ohm
- Velocity Propagation : 77% (Nominal)
- RF Leakage : -100dB
- Minimum Bend Radius [mm] : 25
- Phase Stability vs Flexure (Typical) : Max. 14° @ 40GHz
- Loss Stability vs Flexure (Typical) : ± 0.1 dB

Type	Figure	Product Part Name	Center Conductor Type	Overall Outer Diameter [mm]	Weight [g/m]	Temperature Range [°C]	Typical Insertion Loss [dB/m]		Average Power Rating [Watt] @ 25°C at Sea Level	
							40GHz	40GHz	40GHz	40GHz
<ul style="list-style-type: none"> ■ Low Loss ■ Super Flex ■ Armor Jacket 		9R40	Solid	8.4 ± 0.3	183	-40 ~ 125	-2.60	102		
<ul style="list-style-type: none"> ■ Low Loss ■ Super Flex ■ Aramid Jacket 		9A40		5.4 ± 0.1	49					
<ul style="list-style-type: none"> ■ Low Loss ■ Super Flex ■ Resin Jacket 		9S40		5.0 ± 0.1	44					



Available Connector : 2.4mm, 2.92mm(ST, SH)





DC ~ 50GHz Series

Spec.



- Impedance (Nominal) : $50 \pm 1 \text{ Ohm}$
- Velocity Propagation : 77% (Nominal)
- RF Leakage : -100dB
- Minimum Bend Radius [mm] : 25
- Phase Stability vs Flexure (Typical) : Max. 15° @ 50GHz
- Loss Stability vs Flexure (Typical) : $\pm 0.1 \text{ dB}$

Type	Figure	Product Part Name	Center Conductor Type	Overall Outer Diameter [mm]	Weight [g/m]	Temperature Range [°C]	Typical Insertion Loss [dB/m]	Average Power Rating [Watt] @ 25°C at Sea Level
							50GHz	50GHz
<ul style="list-style-type: none"> ■ Low Loss ■ Super Flex ■ Armor Jacket 		7R50D	Solid	8.4 ± 0.3	173	-40 ~ 125	-3.87	88
<ul style="list-style-type: none"> ■ Low Loss ■ Super Flex ■ Aramid Jacket 		7A50D		4.5 ± 0.1	34			



Dynamic Application



Static Application

Available Connector : 2.4mm(ST)



DC ~ 67GHz Series

Spec.



- Impedance (Nominal) : 50 ±1 Ohm
- Velocity Propagation : 77% (Nominal)
- RF Leakage : -100dB (5R67D, 5A67D)
- Minimum Bend Radius [mm] : 20 (5R67D, 5A67D)
- Phase Stability vs Flexure (Typical) : Max. 19° @ 67GHz (5A67D) | Max. 14° @ 67GHz (5R67D)
- Loss Stability vs Flexure (Typical) : ±0.1 dB

Type	Figure	Product Part Name	Center Conductor Type	Overall Outer Diameter [mm]	Weight [g/m]	Temperature Range [°C]	Typical Insertion Loss [dB/m]		Average Power Rating [Watt] @ 25°C at Sea Level	
							67GHz	67GHz	67GHz	67GHz
<ul style="list-style-type: none"> ■ Low Loss ■ Super Flex ■ Armor Jacket 		5R67D	Solid	6.6 ± 0.3	63	-40 ~ 85	-6.32	64		
<ul style="list-style-type: none"> ■ Low Loss ■ Super Flex ■ Aramid Jacket 		5A67D		3.6 ± 0.1	25					



Dynamic Application



Static Application

Available Connector : 1.85mm(ST)

1.85mm Male Straight



Zenild[®]

Ultra light weight solution

Spec.

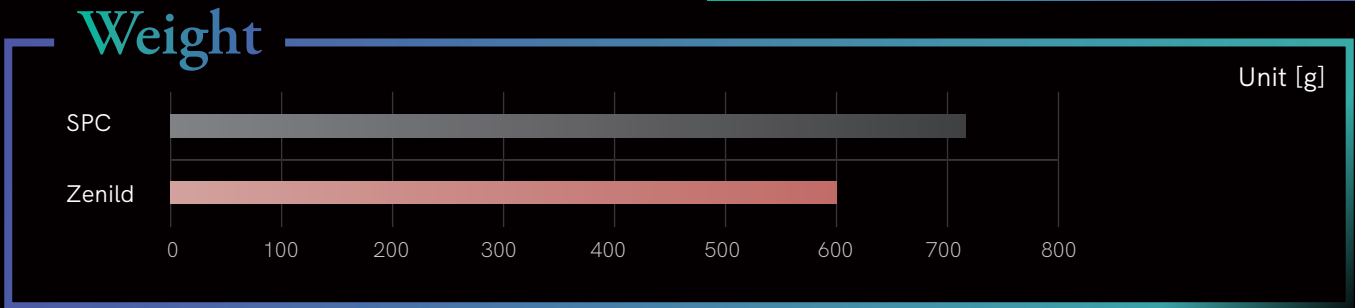


Zenild[®]

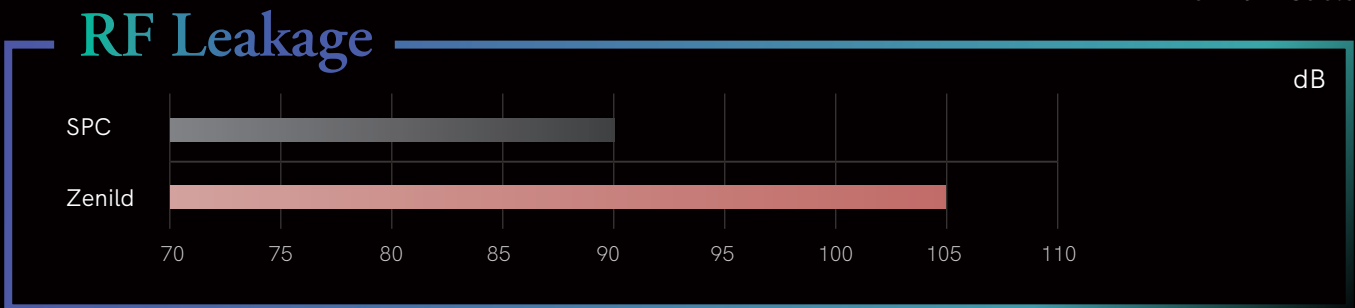


Our unique braiding technology, "Zenild[®]" provides superior shielding effectiveness VS copper wire and offers significant weight savings. Silver Plated Fiber delivers over 60% weight savings VS copper wire at equal volumes.

Zenild[®] vs Silver Plated Copper



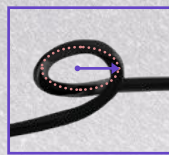
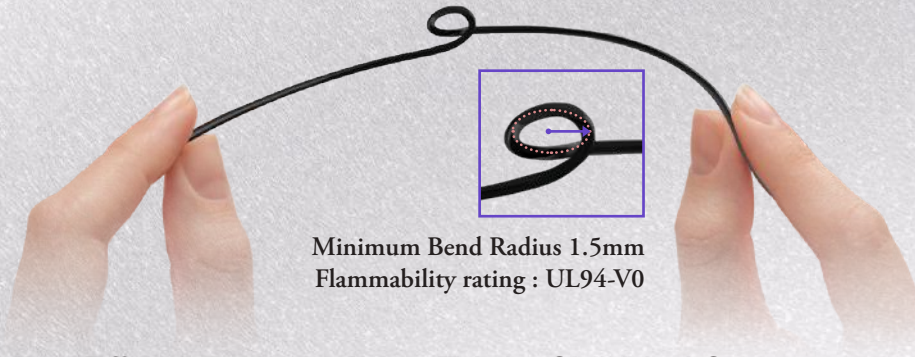
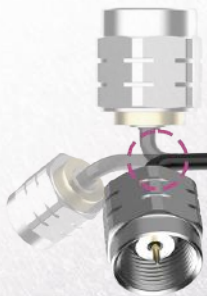
For 10M Cable



FlexiBe[®]

Bend Form to Function

Minimum Bend Radius 1.5mm Cable Assembly



Minimum Bend Radius 1.5mm
Flammability rating : UL94-V0

High Shielding Effectiveness using a Triple-Shielded Structure : -110dB(min)

Freq. DC to 67GHz	Low-loss EMI shielding	MIL-STD satisfactory	MBR 1.5mm Outer diameter 2mm
----------------------	---------------------------	-------------------------	---------------------------------

MBR : Minimum Bend Radius

Angle Bends Directly Behind the Connector with a Small MBR



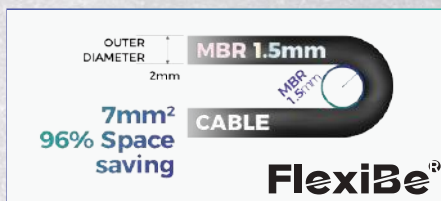
Minimum Bend Radius
1.5mm

Limitation of Legacy Microwave Cables

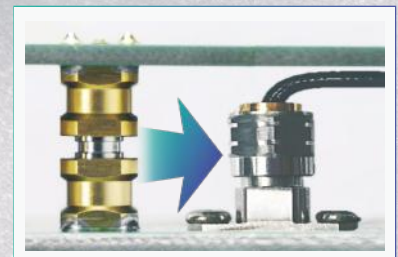


- Space waste due to large MBR (Minimum Bend Radius)
- Vulnerable to vibration of SR (Semi-rigid) cable and difficult routing and assembly

SENSORVIEW Solution



- DC to 67GHz
- Low-loss, EMI shielding
- MIL-STD satisfactory
- MBR1.5mm, Outer diameter 2mm



- Saves system space by having a MBR of 1.5mm (Minimum Bend Radius 1.5mm)
- Because there are no soldered sections on the connector, FlexiBe reduces attenuation by more than 50% than typical cables.

Microwave Cable & Connector

We make your RF the BEST




FlexiBe[®]

- Impedance (Nominal) : 50 ±1 Ohm
- Velocity Propagation : 70% (Nominal)
- RF Leakage : -110dB
- Minimum Bend Radius [mm] : 1.5 (SFPS27D1) | 5.0 (SFPS24D1)
- Loss Stability vs Flexure (Typical) : 0.1 dB

Spec.



DC ~ 67GHz

Figure	Product Part Name	Center Conductor Type	Overall Outer Diameter [mm]	Weight [g/m]	Temperature Range [°C]	Typical Insertion Loss [dB/m]	Average Power Rating [Watt] @ 25°C at Sea Level
						67GHz	67GHz
	FlexiBe 67	Solid	2 ± 0.1	12.6	-40 ~ 125	-11	27

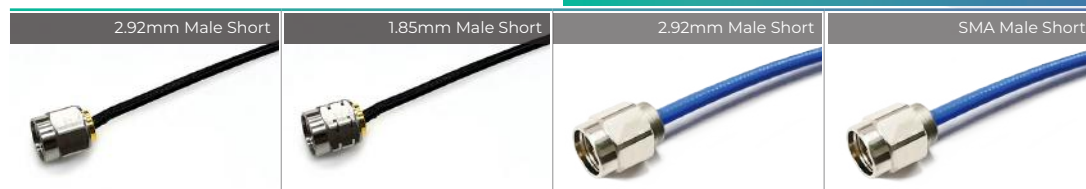
Spec.



DC ~ 50GHz

Figure	Product Part Name	Center Conductor Type	Overall Outer Diameter [mm]	Weight [g/m]	Temperature Range [°C]	Typical Insertion Loss [dB/m]	Average Power Rating [Watt] @ 25°C at Sea Level
						50GHz	50GHz
	FlexiBe 50	Solid	2.5 ± 0.1	19.4	-40 ~ 125	-6.7	52

Available Connector : 1.85mm, 2.92mm, SMA




Micro Coaxial Cable for W-Band

Spec.



- Impedance : 50 ± 2 Ohm
- Velocity Propagation : 70% (Normal)
- RF Leakage : -70dB
- Minimum Bend Radius [mm] : 4.5
- Loss Stability vs Flexure (Typical) : 0.1 dB

DC ~ 110GHz





Figure	Product Part Name	vCenter Conductor Type	Overall Outer Diameter [mm]	Weight [g/m]	Temperature Range [°C]	Typical Insertion Loss [dB/m]	Average Power Rating [Watt] @ 25°C at Sea Level
						110GHz	110GHz
	FXPS29D1	Solid	1.42 ± 0.1	5.3	-40 ~ 85	16.7	15



Available Connector : 1.0mm, 1.85mm, SMA

1.0mm Male Straight

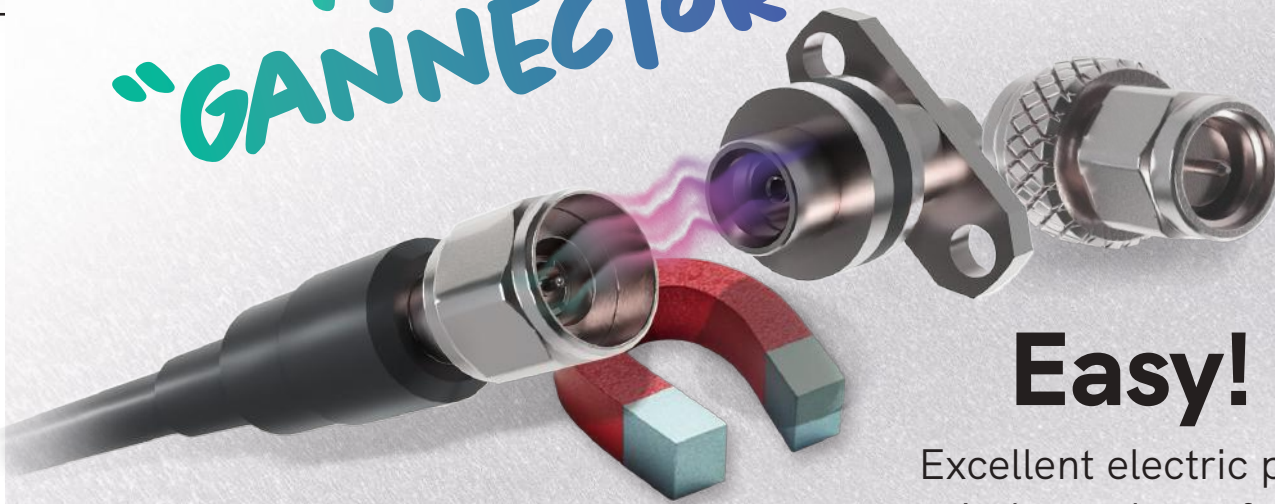


SENSORVIEW SENSORVIEW SENSORVIEW SENSORVIEW

BYE~ SMA!!
 HI~ "GANNECTOR"

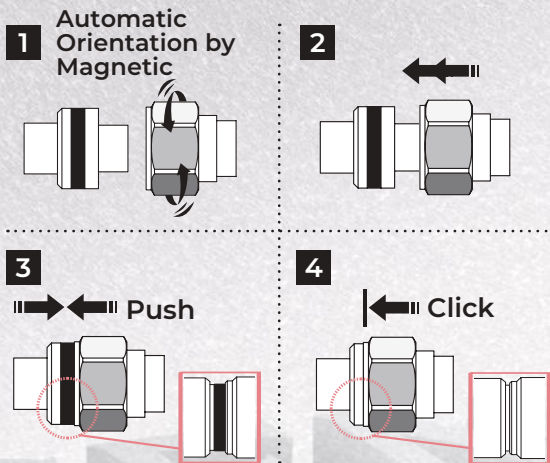
Magnetic Connect Solution
Gannector®



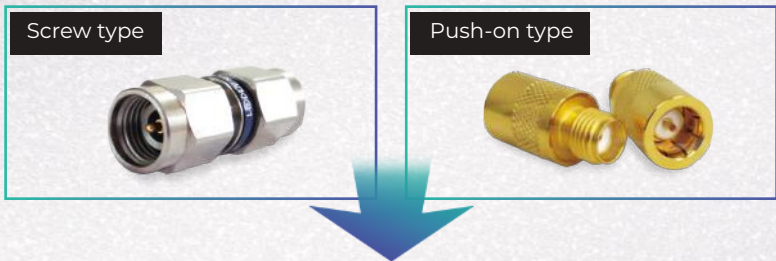
Easy! Fast!

Excellent electric performance
 independent of screw torque
Magnetic Connect and Disconnect.

Mating



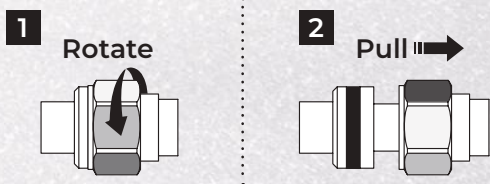
When male and female components are united, the coupling nut will **automatically orient** them. When pressed so that **the black band is no longer visible**, it will produce a "click" sound.



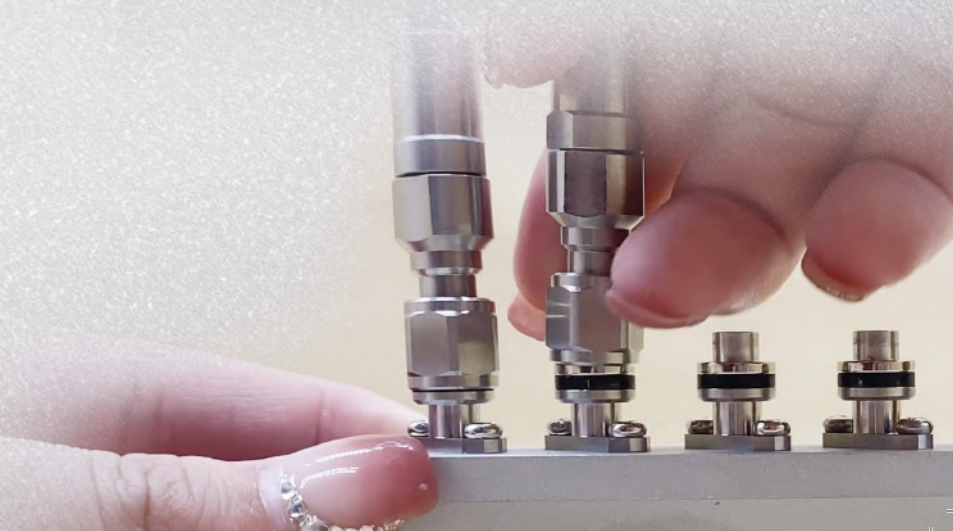
Hybrid Connector - Gannector®

- **Dual Contact / Radial Contact / Magnetic Contact**
- **Tool-less** (No torque wrench required)
- **Frequency Range** (up to 20GHz)
- **Quick-Lock**

Unmating


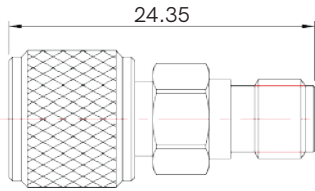


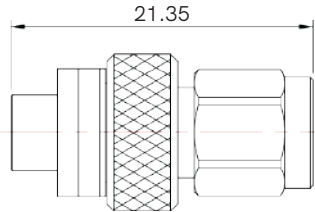


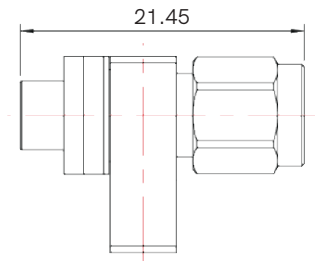


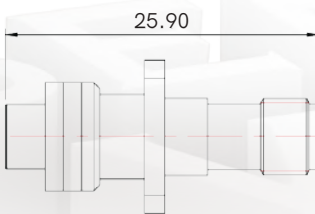



If you separate the components **while turning them 90 degrees**, they will seamlessly separate.



GANNECTOR


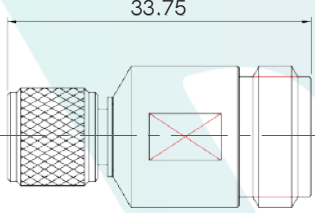


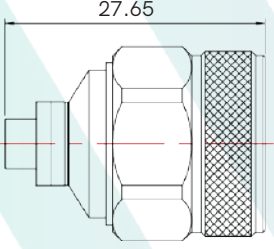

DC ~ 18GHz SMA to Gannector Adapters

Product Part Name (Description)	Drawing [mm]	Specification	Spec. QR Code
Gannector(m) to SMA(f) M2P92MST-SMAF-001 		<ul style="list-style-type: none"> • VSWR : 1.35 Max • Impedance : 50 ohm • Insertion loss : - 0.03dB x \sqrt{F} • Mating cycle : 350 times 	
Gannector(f) to SMA(m) M2P92FST-SMAM-001 		<ul style="list-style-type: none"> • VSWR : 1.35 Max • Impedance : 50 ohm • Insertion loss : - 0.03dB x \sqrt{F} • Mating cycle : 350 times 	
Gannector(f) to SMA(m) M2P92FPM-SMAM-001 		<ul style="list-style-type: none"> • VSWR : 1.35 Max • Impedance : 50 ohm • Insertion loss : - 0.03dB x \sqrt{F} • Mating cycle : 350 times 	
Gannector(f) to SMA(f) M2P92F4H-SMAF-001 		<ul style="list-style-type: none"> • VSWR : 1.35 Max • Impedance : 50 ohm • Insertion loss : - 0.04dB x \sqrt{F} • Mating cycle : 350 times 	


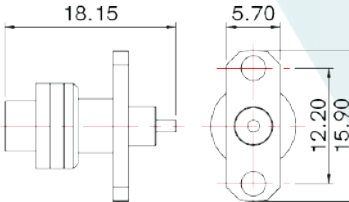


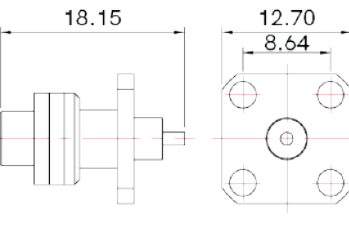



GANNECTOR

DC ~ 18GHz N to Gannector Adapters

Product Part Name (Description)	Drawing [mm]	Specification	Spec. QR Code
Gannector(m) to N(f) M2P92MST-NF-001 		<ul style="list-style-type: none"> • VSWR : 1.35 Max • Impedance : 50 ohm • Insertion loss : - 0.06dB x \sqrt{F} • Mating cycle : 350 times 	
Gannector(f) to N(m) M2P92FST-NM-001 		<ul style="list-style-type: none"> • VSWR : 1.35 Max • Impedance : 50 ohm • Insertion loss : - 0.06dB x \sqrt{F} • Mating cycle : 350 times 	

DC ~ 18GHz Gannector (Panel Mount)

Product Part Name (Description)	Drawing [mm]	Specification	Spec. QR Code
Gannector(f) 2 Hole M2P92F2H-001 		<ul style="list-style-type: none"> • VSWR : 1.25 Max • Impedance : 50 ohm • Insertion loss : - 0.03dB x \sqrt{F} • Mating cycle : 350 times 	
Gannector(f) 4 Hole M2P92F4H-002 		<ul style="list-style-type: none"> • VSWR : 1.25 Max • Impedance : 50 ohm • Insertion loss : - 0.03dB x \sqrt{F} • Mating cycle : 350 times 	

End Launch

Contact while Sliding

Zero Bolt Loss

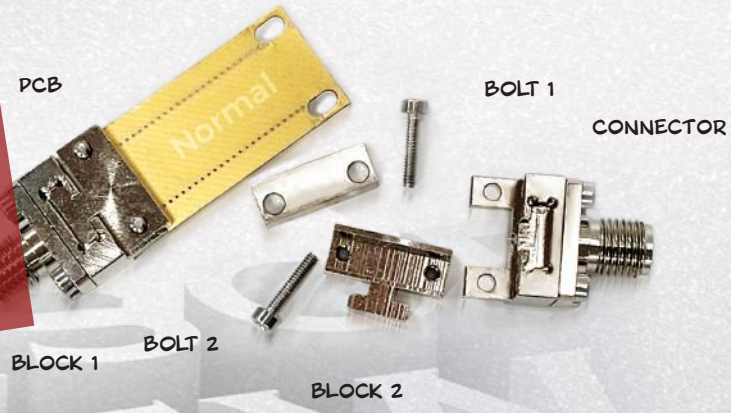
EASY PCB Connection







PCB Damage Prevention & Leveling Spring

Easy soldering



ZERO LOSS IN HAVING TO FIND BOLTS



Connector Type	PCB Thickness	Product Part Name	Frequency	VSWR	Spec. QR Code
1.85mm	8Mil	CCA300PBZ001	67GHz	1.5 Max.	
	10Mil	CCA300PBZ002			
2.4mm	8Mil	CCA500PBZ001	50GHz	1.5 Max.	
	10Mil	CCA500PBZ004			
2.92mm	8Mil	CCA700PBZ001	40GHz	1.4 Max.	
	10Mil	CCA700PBZ005			



Microwave Coaxial Connector & Adapter

SENSORVIEW coaxial connectors & adapters are designed and manufactured to guarantee optimized performance of the end products. We can provide the optimum transition for low return loss. Specially we can tailor connectors to specific equipment and application needs.



"JUST CHOOSE
BY **COLOR**"


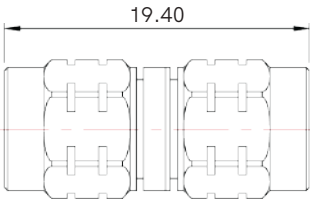


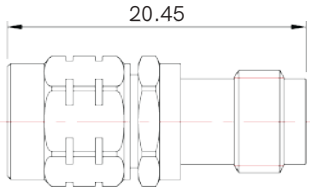


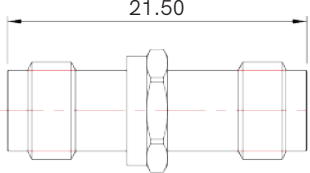


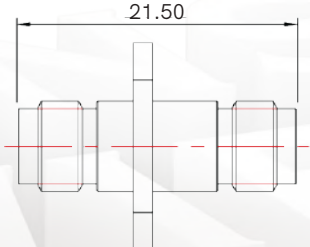



Connector EM Design

Proprietary EM Design and Precision Assembly Technology for DC-67GHz

ADAPTER


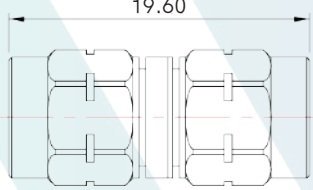


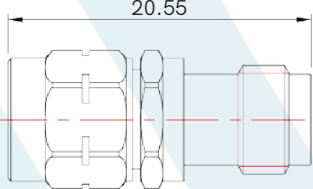


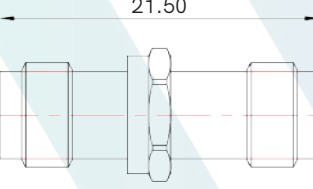


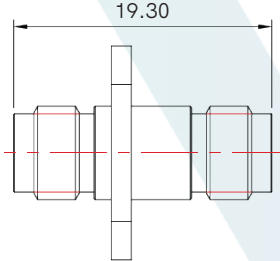

DC ~ 67GHz - 1.85mm(V) In-Series

Product Part Name (Description)	Drawing [mm]	Specification	Spec. QR Code
<p>1.85mm(m) to 1.85mm(m) 1P85MST-1P85M-001</p> 		<ul style="list-style-type: none"> • VSWR : 1.25 Max • Impedance : 50 ohm • Insertion loss : - 0.05dB x \sqrt{F} • Mating cycle : 500 times 	
<p>1.85mm(m) to 1.85mm(f) 1P85MST-1P85F-001</p> 		<ul style="list-style-type: none"> • VSWR : 1.25 Max • Impedance : 50 ohm • Insertion loss : - 0.05dB x \sqrt{F} • Mating cycle : 500 times 	
<p>1.85mm(f) to 1.85mm(f) 1P85FST-1P85F-001</p> 		<ul style="list-style-type: none"> • VSWR : 1.25 Max • Impedance : 50 ohm • Insertion loss : - 0.05dB x \sqrt{F} • Mating cycle : 500 times 	
<p>1.85mm(f) to 1.85mm(f) 1P85F4H-1P85F-001</p> 		<ul style="list-style-type: none"> • VSWR : 1.30 Max • Impedance : 50 ohm • Insertion loss : - 0.05dB x \sqrt{F} • Mating cycle : 500 times 	




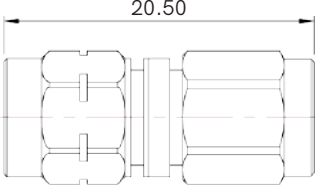


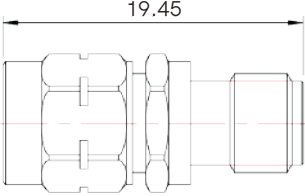


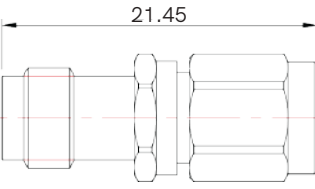


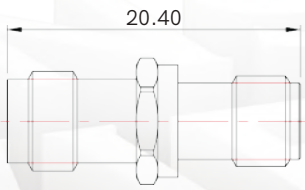
ADAPTER

DC ~ 50GHz - 2.4mm In-Series

Product Part Name (Description)	Drawing [mm]	Specification	Spec. QR Code
<p>2.4mm(m) to 2.4mm(m) 2P4MST-2P4M-001</p> 		<ul style="list-style-type: none"> • VSWR : 1.25 Max • Impedance : 50 ohm • Insertion loss : - 0.04dB x \sqrt{F} • Mating cycle : 500 times 	
<p>2.4mm(m) to 2.4mm(f) 2P4MST-2P4F-001</p> 		<ul style="list-style-type: none"> • VSWR : 1.25 Max • Impedance : 50 ohm • Insertion loss : - 0.04dB x \sqrt{F} • Mating cycle : 500 times 	
<p>2.4mm(f) to 2.4mm(f) 2P4FST-2P4F-001</p> 		<ul style="list-style-type: none"> • VSWR : 1.25 Max • Impedance : 50 ohm • Insertion loss : - 0.04dB x \sqrt{F} • Mating cycle : 500 times 	
<p>2.4mm(f) to 2.4mm(f) 2P4F4H-2P4F-001</p> 		<ul style="list-style-type: none"> • VSWR : 1.25 Max • Impedance : 50 ohm • Insertion loss : - 0.04dB x \sqrt{F} • Mating cycle : 500 times 	

ADAPTER


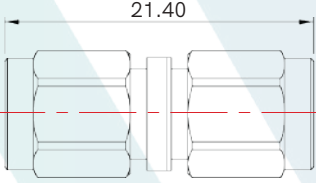


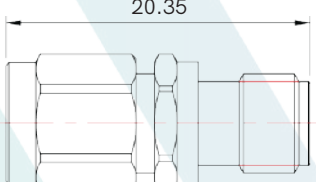


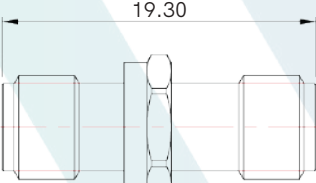

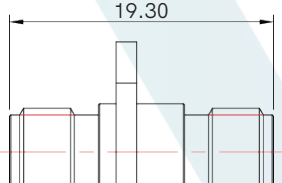


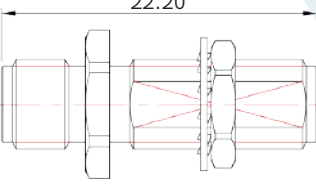

DC ~ 40GHz - 2.4mm to 2.92mm Between-Series

Product Part Name (Description)	Drawing [mm]	Specification	Spec. QR Code
<p>2.4mm(m) to 2.92mm(m) 2P4MST-2P92M-001</p> 		<ul style="list-style-type: none"> • VSWR : 1.15 Max • Impedance : 50 ohm • Insertion loss : - 0.03dB x \sqrt{F} • Mating cycle : 500 times 	
<p>2.4mm(m) to 2.92mm(f) 2P4MST-2P92F-001</p> 		<ul style="list-style-type: none"> • VSWR : 1.15 Max • Impedance : 50 ohm • Insertion loss : - 0.03dB x \sqrt{F} • Mating cycle : 500 times 	
<p>2.4mm(f) to 2.92mm(m) 2P4FST-2P92M-001</p> 		<ul style="list-style-type: none"> • VSWR : 1.15 Max • Impedance : 50 ohm • Insertion loss : - 0.03dB x \sqrt{F} • Mating cycle : 500 times 	
<p>2.4mm(f) to 2.92mm(f) 2P4FST-2P92F-001</p> 		<ul style="list-style-type: none"> • VSWR : 1.15 Max • Impedance : 50 ohm • Insertion loss : - 0.03dB x \sqrt{F} • Mating cycle : 500 times 	





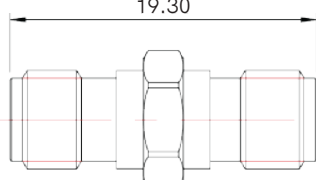



ADAPTER

DC ~ 40GHz - 2.92mm(K) In-Series

Product Part Name (Description)	Drawing [mm]	Specification	Spec. QR Code
2.92mm(m) to 2.92mm(m) 2P92MST-2P92M-001 	 <p>21.40</p>	<ul style="list-style-type: none"> • VSWR : 1.15 Max • Impedance : 50 ohm • Insertion loss : - 0.03dB x \sqrt{F} • Mating cycle : 500 times 	
2.92mm(m) to 2.92mm(f) 2P92MST-2P92F-001 	 <p>20.35</p>	<ul style="list-style-type: none"> • VSWR : 1.15 Max • Impedance : 50 ohm • Insertion loss : - 0.03dB x \sqrt{F} • Mating cycle : 500 times 	
2.92mm(f) to 2.92mm(f) 2P92FST-2P92F-001 	 <p>19.30</p>	<ul style="list-style-type: none"> • VSWR : 1.15 Max • Impedance : 50 ohm • Insertion loss : - 0.03dB x \sqrt{F} • Mating cycle : 500 times 	
2.92mm(f) to 2.92mm(f) 2P92F4H-2P92F-004 	 <p>19.30</p>	<ul style="list-style-type: none"> • VSWR : 1.15 Max • Impedance : 50 ohm • Insertion loss : - 0.03dB x \sqrt{F} • Mating cycle : 500 times 	
2.92mm(f) to 2.92mm(f) 2P92FBH-2P92F-005 	 <p>22.20</p>	<ul style="list-style-type: none"> • VSWR : 1.15 Max • Impedance : 50 ohm • Insertion loss : - 0.04dB x \sqrt{F} • Mating cycle : 500 times 	

ADAPTER


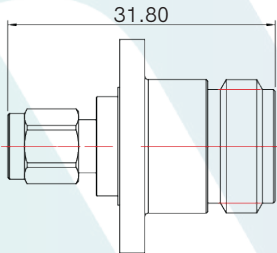


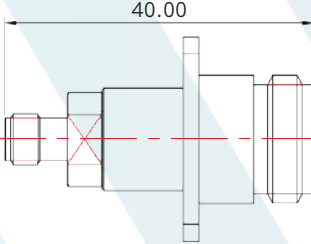

DC ~ 18 / 26.5GHz - 3.5mm / SMA In-Series

Product Part Name (Description)	Drawing [mm]	Specification	Spec. QR Code
3.5mm(f) to 3.5mm(f) 3P5FBH-3P5F-001 		Frequency : DC ~ 26.5Ghz <ul style="list-style-type: none"> • VSWR : 1.15 Max • Impedance : 50 ohm • Insertion loss : - 0.04dB x \sqrt{F} • Mating cycle : 500 times 	
SMA(m) to SMA(m) SMAMST-SMAM-001 		Frequency : DC ~ 18Ghz <ul style="list-style-type: none"> • VSWR : 1.15 Max • Impedance : 50 ohm • Insertion loss : - 0.03dB x \sqrt{F} • Mating cycle : 500 times 	
SMA(f) to SMA(f) SMAFST-SMAF-001 		Frequency : DC ~ 18Ghz <ul style="list-style-type: none"> • VSWR : 1.15 Max • Impedance : 50 ohm • Insertion loss : - 0.03dB x \sqrt{F} • Mating cycle : 500 times 	
SMA(f) to SMA(f) SMAF4H-SMAF-001 		Frequency : DC ~ 18Ghz <ul style="list-style-type: none"> • VSWR : 1.25 Max • Impedance : 50 ohm • Insertion loss : - 0.05dB x \sqrt{F} • Mating cycle : 500 times 	
SMA(f) to SMA(f) SMAFBH-SMAF-002 		Frequency : DC ~ 26.5Ghz <ul style="list-style-type: none"> • VSWR : 1.20 Max • Impedance : 50 ohm • Insertion loss : - 0.04dB x \sqrt{F} • Mating cycle : 500 times 	


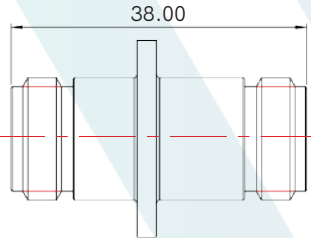


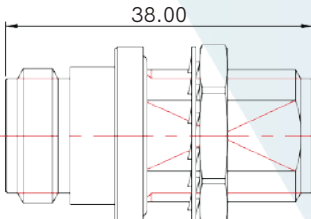


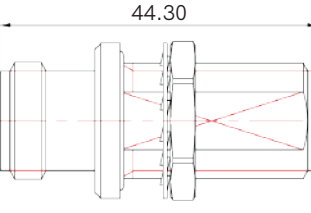



ADAPTER

DC ~ 18GHz - SMA to N type Between-Series

Product Part Name (Description)	Drawing [mm]	Specification	Spec. QR Code
SMA(m) to N(f) SMAM4H-NF-001 	 <p>31.80</p>	Frequency : DC ~ 18Ghz <ul style="list-style-type: none"> • VSWR : 1.20 Max • Impedance : 50 ohm • Insertion loss : - 0.06dB x \sqrt{F} • Mating cycle : 500 times 	
SMA(f) to N(f) SMAF4H-NF-001 	 <p>40.00</p>	Frequency : DC ~ 18Ghz <ul style="list-style-type: none"> • VSWR : 1.30 Max • Impedance : 50 ohm • Insertion loss : - 0.06dB x \sqrt{F} • Mating cycle : 500 times 	

DC ~ 18GHz - N type In-Series

Product Part Name (Description)	Drawing [mm]	Specification	Spec. QR Code
N(f) to N(f) NF4H-NF-001 	 <p>38.00</p>	Frequency : DC ~ 18Ghz <ul style="list-style-type: none"> • VSWR : 1.20 Max • Impedance : 50 ohm • Insertion loss : - 0.06dB x \sqrt{F} • Mating cycle : 500 times 	
N(f) to N(f) NFBH-NF-002 	 <p>38.00</p>	Frequency : DC ~ 12.4Ghz <ul style="list-style-type: none"> • VSWR : 1.20 Max • Impedance : 50 ohm • Insertion loss : - 0.06dB x \sqrt{F} • Mating cycle : 500 times 	
N(f) to N(f) NFBH-NF-003 	 <p>44.30</p>	Frequency : DC ~ 18Ghz <ul style="list-style-type: none"> • VSWR : 1.20 Max • Impedance : 50 ohm • Insertion loss : - 0.07dB x \sqrt{F} • Mating cycle : 500 times 	

MULTI/MICRO-COAXIAL Dual-ports RF Interconnector MG210



5G Antenna module for Small cell & base station

What is 5G Antenna module?

Communication equipment (small-cell and baseband station) manufacturers have difficulties in designing mmWave antenna module yet. For this reason, **Qualcomm** provides mmWave antenna modules, not chipset only.

Where are Sensorview products?

MG210 is mounted on **Qualcomm's** mmWave Antenna module.

MG210 has low-loss, low EMI leakage traits with multi-gang micro interconnector. **Coaxial lines are combined into a connector** with 50 ohm matched thoroughly. Slide-mating interface secures anti-rotation and anti-vibration stability.

Main applications are CPE, Small cell, Laptop, IF signal transmission.

Features

- Space Efficiency :**
Minimize footprint size by 2 ganged connector
- Power Efficiency :**
Low loss coaxial cable (DK < 2.0)
- Mechanically Stability :**
Strong resistance to X-Y-Z moving and vibration
- Minimized Crosstalk :**
Each contact is electrically/mechanically separated
- Minimized RF Interference :**
Full - enclosed mating by ground shell

MG210 Products

- Receptacle :**
(P/N : MG210RE02)
- Plug to plug cable assembly :**
(P/N : MGC102XX)
- Plug to Female SMAs cable assembly :**
(P/N : TRA2PA5)
- Plug to Male SMAs cable assembly :**
(P/N : TRA2PA6)
- Tweezer for Mating and unmating a plug :**
(P/N : GJSZZA5)

We make your RF the BEST

Micro-Coaxial Interconnector



Application



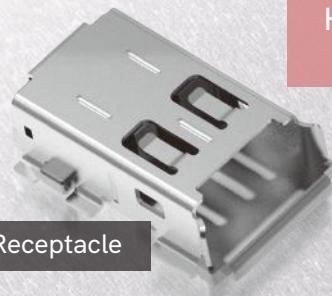
CPE / Hotspot
(Customer Premises Equipment)



Femtocell / Small cell

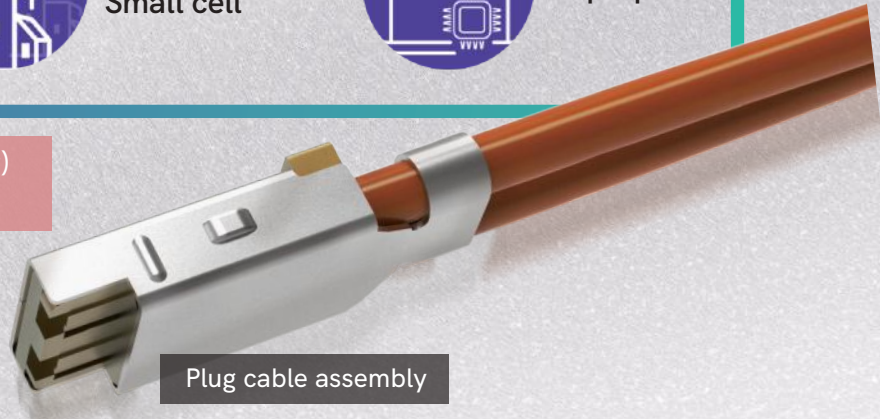
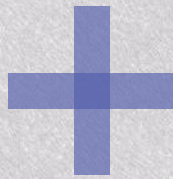


Laptop



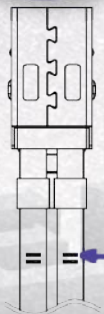
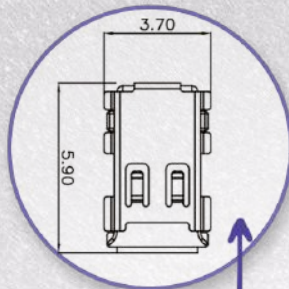
Receptacle

Horizontal (Sliding) Mating



Plug cable assembly

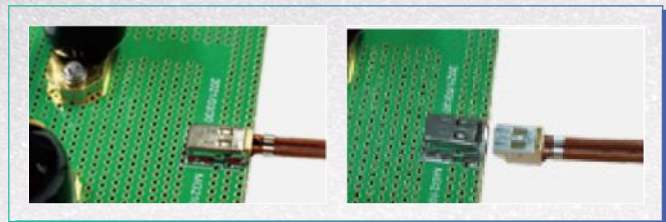
[Receptacle]



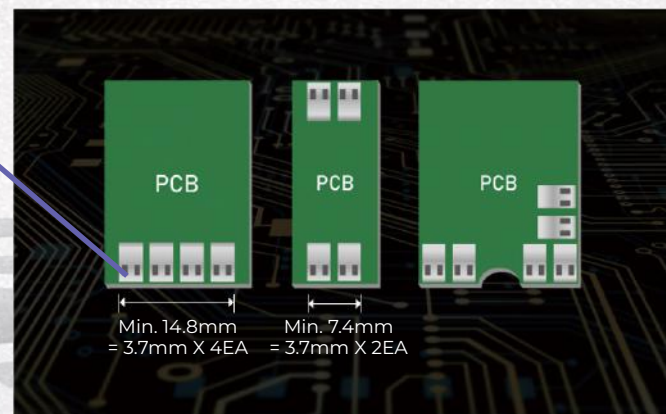
Mating Direction
Sliding Type

SV AWG32
= O.D 0.88mm

[Plug Cable Assembly]



MG210RE02 Mated into MG210



Footprint(land pattern) area of multiple MG210 receptacles

Specification		MG210
Ports (RF Signal)		2ports (can assemble with 1port connector)
Frequency		DC to 10GHz (Can support up to 15GHz)
Mating direction		Horizontal (Sliding)
Size (X,Y)	{ PCB pad }	3.7 x 5.9mm
Size (X,Y)	{ Top view }	3.7 x 5.9mm
Size (Z)	{ Mate height }	2mm
Cable	Diameter	0.88mm
Insertion loss	(@10GHz/200mm)	-1.7dB
VSWR	(DC to 10GHz)	Max 1.5
Crosstalk	(DC to 10GHz)	Typical < - 45dB

MULTI/MICRO-COAXIAL Dual-ports RF Interconnector MG215M



What is 5G M.2 card?

Laptop, CPE manufacturers need easy 'plug and play' card to realized 5G mmWave. For this reason, OEM of **Global top fabless RF chip company** manufactures M.2 cards by **Global top fabless RF chip company's** reference design.

Where is Sensorview products?

MG215M is listed on recommended components in **Global top fabless RF chip company** reference design.

MG215M has low-loss, low EMI leakage, dual-ports micro coaxial RF interconnector. Two Coaxial lines are in a connector with 50 ohm matched thoroughly. **Vertical-mating** interface secures anti-rotation and anti-vibration stability.

Main applications are CPE, Laptop, M.2 Card RF or IF(Intermediate Frequency) transmission.

Features

- Footprint / Mating height :**
Minimize footprint and mating height with dual-ports
- Power Efficiency :**
Low loss coaxial cable (DK < 2.0)
- Minimized Crosstalk :**
Each contacts are electrically/mechanically separated
- Minimized RF Interference :**
Enclosure is fully shielded by ground shell

MG215M Products

- Receptacle :**
(P/N : MG215MRE02)
- Plug to plug cable assembly :**
(P/N : MGC152XX)
- Plug to Female SMAs cable assembly :**
(P/N : TRA2P01)
- Plug to Male SMAs cable assembly :**
(P/N : TPA2PA3)
- Tweezer for Mating and unmating a plug :**
(P/N : GJSZZA7)

We make your RF the BEST

Micro-Coaxial Interconnector



Application



CPE / Hotspot
(Customer Premises Equipment)



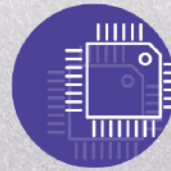
Femtocell /
Small cell



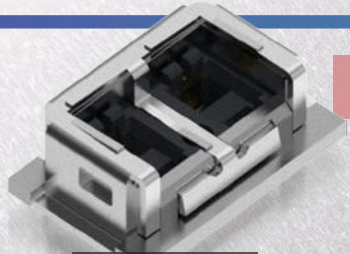
Laptop



M.2 Card

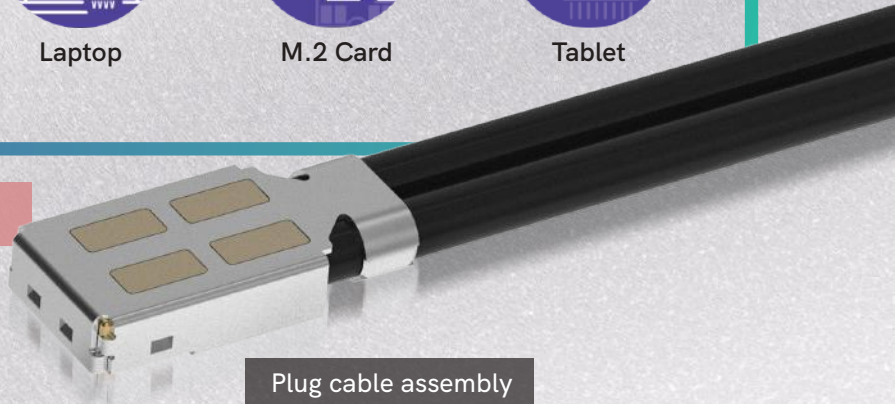
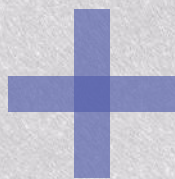


Tablet



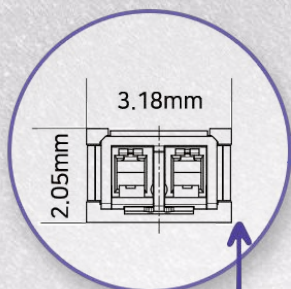
Receptacle

Vertical Mating

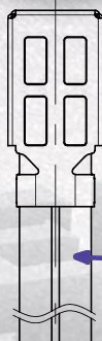


Plug cable assembly

[Receptacle]

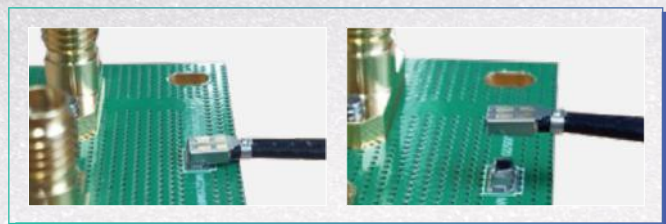


Mating Direction
Top-Down Type

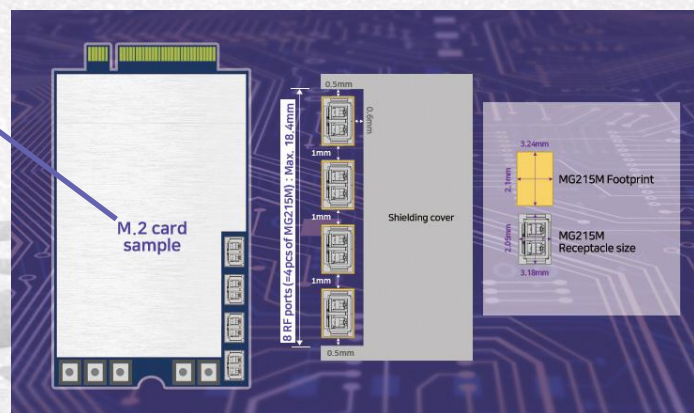


SV AWG30
= O.D 1.1mm

[Plug Cable Assembly]




Example _ Antenna modules / M,2 Card



Footprint(land pattern) area of multiple MG215M receptacles

Specification		MG215M
Ports (RF Signal)		2ports (can assemble with 1port connector)
Frequency		DC to 15GHz
Mating direction		Vertical (Top-down)
Size (X,Y)	{ PCB pad }	3.1 x 2.0mm
Size (X,Y)	{ Top view }	3.1 x 2.0mm
Size (Z)	{ Mate height }	1.4mm
Cable	Diameter	1.1mm
Insertion loss	(@10GHz/200mm)	-1.35dB
VSWR	(DC to 15GHz)	Max 15
Crosstalk	(DC to 15GHz)	< - 50dB



We make your
RF the BEST



Your trusted partner
for 5G and **BEYOND-5G**

Antenna

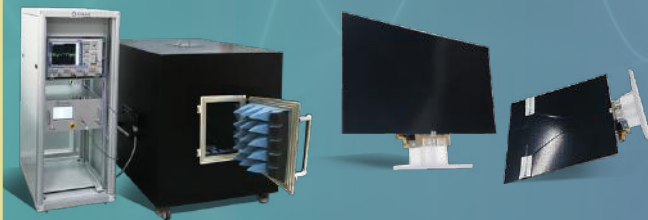
For
Sub6
For
mmWave

[For Sub6]

[For mmWave]

[Test & Measurement]

600MHz - 9GHz



OTA Chamber

Wide Band Antenna

24GHz - 48.5GHz



26/28/39GHz band antenna

SmartPhone

Chip Module

Horn Antenna

Lens Antenna

[In-building]

698 - 960MHz / 1710 - 2690MHz / 3.5GHz / 5.8GHz



Transparent Antenna (SISO)

Transparent Antenna (MIMO)

Disk Type Antenna (SISO/MIMO)

28GHz (Optimized by request)



Beamforming Antenna (@W/O chip)

Wide beam scanning Antenna

We make your RF the BEST
SENSORVIEW



SMFinder® High-end mmWave Antenna

**Stable & Accurate
Measurement**

SMFinder® type antennas promise stable & accurate measurement for relative DUT performance.

Application



Lab & Bench Test



OTA Shield Box








Phase and Gain Adjustable

Light-Weight

High Reliable Performance

24 to 48GHz / 55 to 67 GHz

Products

Figure	Product Part Name	Frequency [GHz]	Gain [dBi/dBic]	Polarization	Size [WxHxD] / [mm]	Connector Type
	0015-01	24.0-29.5	10	Vertical & Horizontal	30(@) X 45	2.92mm
	0015A	24.0-40.5	15	Vertical & Horizontal	35(@) X 80	2.4mm
	0015B (Type 1)	24.0-40.5	13	Vertical	17 X 17 X 25	2.92mm
	0015B (Type 2)	24.0-40.5	13	Vertical	17 X 18 X 33	2.92mm
	0015C	24.0-48.5	15	Vertical & Horizontal	42 X 42 X 60	2.4mm
	0015D	24.0-48.5	15	Vertical	34 X 24 X 45	2.4mm
	0015E	24.0-40.5	15	Vertical & Horizontal	52(@) X 123	2.92mm



COMPACT **OTA** TESTING

SMFinder series are highly efficient antennas for compact OTA testing.



Circular Polarization Antenna

CP antenna for broadband

- Mass-production available
- Lower cost
(antenna, chamber box, absorber)

Good performance of axial ratio

- Compact size
(antenna, chamber box)
- Lighter than horn antennas

Products

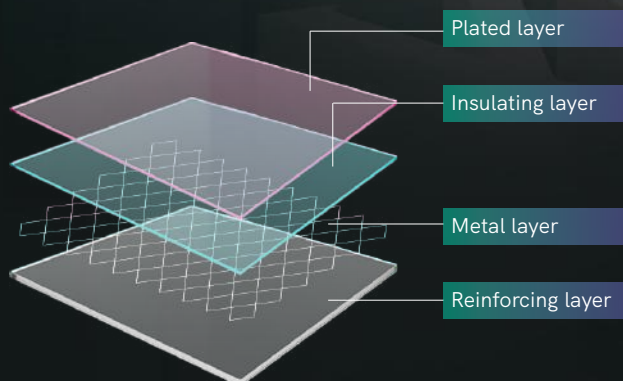
Figure	Product Part Name	Frequency [GHz]	Gain [dBi/dBic]	Polarization	Size [WxHxD] / [mm]	Connector Type
	0016	24.2-43.5	13	Circular	18 X 15 X 24	WR 28
	0016A	24.4-43.5	13	Circular	21 X 18 X 35	2.4mm
	0016B	24.2-48.5	14	Circular	18 X 20 X 41	2.4mm
	0016C	24.2-48.5	10.3	Circular	11 X 14 X 24	2.4mm
	0017	57-67	15	Circular	15(@) X 21	WR 15
	0013A	24.2-29.5	10	Circular	27 X 27 X 14	2.92mm
	0050	26.5-29.5 / 37.5-40.5	11/12	Circular	42 X 42 X 22	2.92mm
	0051	24-26.5 / 26.5-29.5 / 37.5-40.5	11/11/12	Circular	42 X 42 X 27	2.92mm
	0052	24-26.5 / 26.5-29.5 / 37.5-40.5 / 40.5-43.5	9/9/9/9.5	Circular	42 X 42 X 11	2.4mm



Antennas for Sub-6GHz In-Building Solution

illum Transparent Antenna

The Most Suitable Antenna Solution for In-Building Networks for the New Era



95% Transparency
'ESG' Low Plastic Usage
Secured Performance



Description	Type	Frequency [GHz]	Gain [dBi]	Availability
Transparent	SISO	0.824~0.96 / 1.71~2.17 / 2.3~2.69 / 3.4~3.7	2.0 / 3.0 / 3.0 / 3.0	Available now
	MIMO	0.698~0.96 / 1.71~2.17 / 2.3~2.69 / 3.4~3.7	2.0 / 3.0 / 3.0 / 3.0	Available now
	SISO	0.617~0.96 / 1.71~2.69 / 3.4~3.7 / 5.8	2.0 / 3.0 / 3.0 / 3.0	Available now
	MIMO	0.617~0.96 / 1.71~2.69 / 3.4~3.7 / 5.8	2.0 / 3.0 / 3.0 / 3.0	Available now
	SISO	1.71~2.69 / 3.4~3.7 / 5.8	3.0 / 3.0 / 3.0	Available now (for Window)
	MIMO	1.71~2.17 / 2.3~2.69 / 3.4~4.	3.0 / 3.0 / 3.0	Available now (for Window)



Broadband Performance for Various Service

Ultra-thin
(only 7 mm thickness)
antenna for indoor

**Reliable antenna
performance**

Eco-friendly installation

SF141 type (pig tail) available
**N-type or 4.3-10 mini-DIN
connector available**



Description	Type	Frequency [GHz]	Gain [dBi]	Availability
UFO	SISO	0.698~0.96 / 1.71~2.69 / 3.4~3.7 / 5.8	3.0 / 4.0 / 4.0 / 4.0	Available now (Ceiling type)
	MIMO	0.698~0.96 / 1.71~2.69 / 3.4~3.7 / 5.8	3.0 / 4.0 / 4.0 / 4.0	Available now
	SISO	0.698~0.96 / 1.71~2.69 / 3.4~3.7 / 5.8	3.0 / 4.0 / 4.0 / 4.0	Available now (Wall type / Side pigtail)
	SISO	0.698~0.96 / 1.35~2.69 / 3.3~4.0	2.5 / 4.0 / 5.0	Available now (Ceiling / Pigtail type)
	MIMO	0.698~0.96 / 1.35~1.55 / 1.71~2.69 / 3.3~4.0	4.0 / 4.0 / 4.0 / 5.0	Available now (Ceiling / Pigtail type)

Pass the Baton
without a Touch

5G Wireless Devices

ST60

Contactless Connectivity

Data transmission
6Gbps, Total jitter
0.375UI, 5~20mm

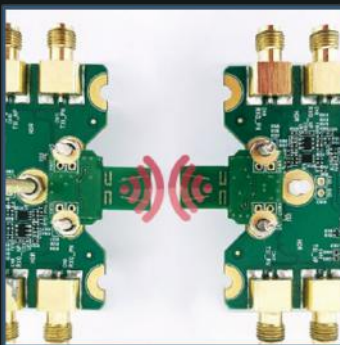
High Speed
(6.25Gbps)

Energy
Efficiency (mW)

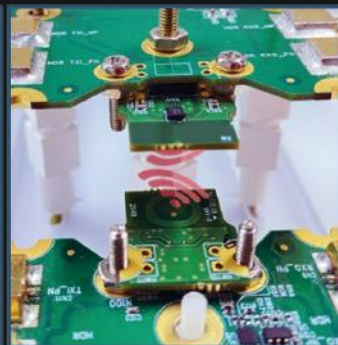
short distance
(5~20mm) 60GHz

Wireless
connector

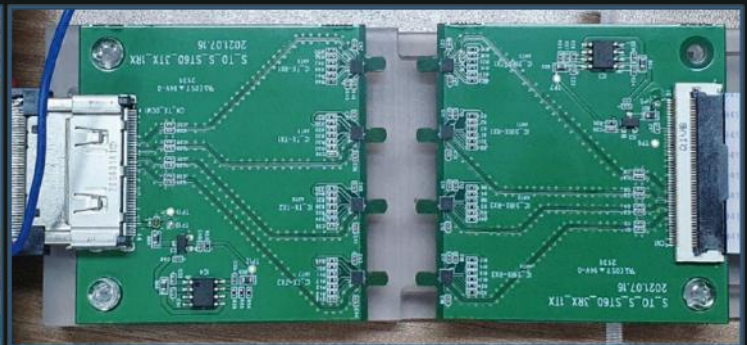
High-Gain + Gain-Flatness + Improved-Isolation with Miniaturized Form Factor



Side to side



Face to face

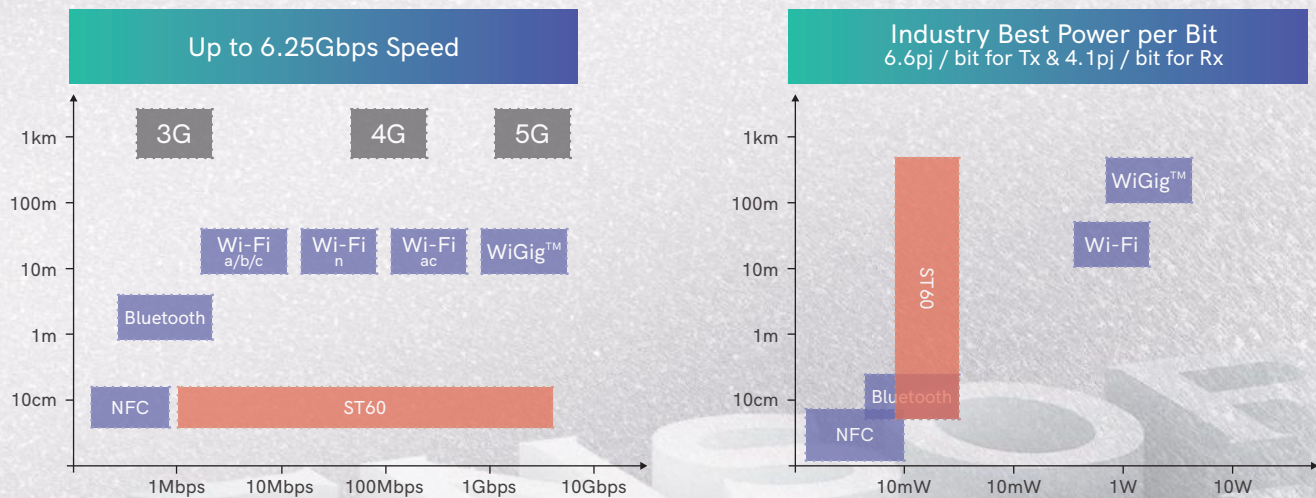


Side to side (Multi-link)

We make your RF the BEST 60GHz soldering Antenna



01. Replace physical-contacting cable and connector
Communicate in rotating 360degree
02. Transmit / Receive 6.25Gbps without physical contact of connectors
No wear-off conductor(or pin) of connector and cable
03. Transmit / Receive data and power with combination of commercialized wireless-power-transfer device
04. Provide ST60 antenna modules with interfaces of connector or SMT



Application

Factory Automation (e.g. OTA Testing & Flashing)



No cables to plug / unplug for reliability and higher manufacturing productivity.

Display (e.g. LED TV & Display Wall)



LED tiles without physical connectors for detachability, form-factor, reliability.

Industrial Equipment (e.g. Monitoring, Machine Vision)












Contactless, freedom of movement, physical and electrical isolation, form-factor, reliability.

Personal Electronics (e.g. Smartphone, Wearable)



No connector wear & tear, water and dust proof, sleek design, foldable display.

Type	Figure	Frequency [GHz]	Peak gain [dBi]	Substrate (FR4) (Layer/Thickness mm)	
F2F	Type 1		55 ~ 65	7.4	6L 1.2T
	Type 2		55 ~ 65	7.5	6L 1.2T
	Dual		56 ~ 66	5.5	6L 1.2T
	Vertical horn		55 ~ 65	7.8	4L 1T
	Slant horn		55 ~ 65	7.5	4L 1T
	Multi-link		55 ~ 65	7.4	6L 1.2T
S2S	Multi-link		55 ~ 65	6.5	6L 1.2T
	Type 1		55 ~ 65	4.1	6L 1.2T
	Type 2		56 ~ 66	4.9	6L 1.2T

Type	Frequency [GHz]	Peak gain [dBi]	Substrate (FR4) (Layer/Thickness mm)	Feature	
F2F	SAM1	55 ~ 65	6dBi	6L 1.2T	Single No R/C No shield can
	SAM2	55 ~ 65	6dBi	6L 1.2T	Loopback + R/C
	SAM3	55 ~ 65	5dBi	6L 1.2T	SAM2 + R/C + Shield can
	SAM4	56 ~ 66	8dBi	4L 1.2T (v1) 6L 1.2T (v2)	Horn + R/C
	SAM5	56 ~ 66	8dBi	6L 1.2T	Horn + R/C + Shield can
S2S	SAM1	55 ~ 65	6dBi	6L 1.2T	Single + R/C
	SAM2	55 ~ 65	6dBi	6L 1.2T	Single + R/C + Shield can

We make your RF the BEST

60GHz soldering Antenna



Feature	Module Size (mm)	Product Part Name	Max data rate (Gbps)	Max. Distance (mm)	
				Half duplex	Full duplex
Coaxial feed	16 x 17.5 x 1.2	S60PVS1A	5	25mm	X
Aperture coupling	16 x 17.5 x 1.2	S60PVS2A	5	25mm	X
Dual feeding patch	18.5 x 14 x 1.2	S60PVD1A	6.25	8mm	Not support
Horn	17 x 18.5 x 1	S60HVD1A	6.25	20mm	Not support
Horn	19 x 18.5 x 1.2	S60HVD2A	6.25	20mm	9mm
Coaxial feed	60.5 x 60.5 x 1.2	S60PVM1C	3	35mm	15mm
Dipole w / dielectric guide	53 x 50 x 1.2	S60PHM1A	2.83	32mm	On-going
Vivaldi	16 x 22 x 1.2	S60PHS1A	5	12mm	X
Quasi yagi	16 x 20 x 1.2	S60PHS2A	5	10mm	X

Module Size (mm)	Product Part Name	Max data rate (Gbps)	Max. Distance (mm)	
6.4 x 7.4	S60PVS3A	2.83 ~ 5.66	20 ~ 12	Verified
6.4 x 10	S60PVS4A	2.83 ~ 5.66	20 ~ 12	On-going
8 x 14	S60PVS4B	2.83 ~ 5.66	16 ~ 8	On-going
8 x 14	S60HVS1A	2.83 ~ 5.66	22 ~ 14	to be update
8 x 14	S60HVS1B	2.83 ~ 5.66	22 ~ 14	to be update
8 x 12	S60PHS3A	2.83 ~ 5.66	20 ~ 12	On-going
8 x 12	S60PHS3B	2.83 ~ 5.66	20 ~ 12	On-going

Representative

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Website



E-Book



Your trusted partner
for **5G** and **BEYOND-5G**

File Rev. 2023.09.01