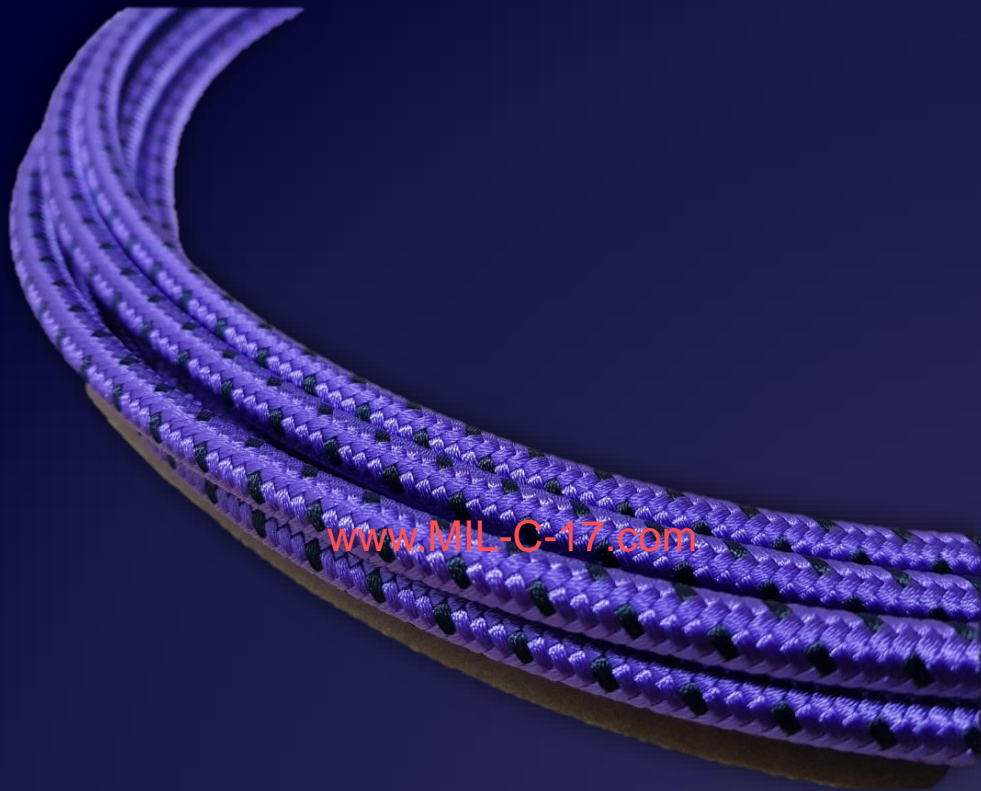


For up to ~ 70GHz  
Low Loss, MIL-C-17 Standard  
RF, Microwave & Milimeter-Wave  
Cables, Connector & Assembly

Low Loss RF, Microwave, Milimeter-Wave Coaxial Cables, Connector & Assemblies  
with Highly Excellent Electrical and Physical Performances  
for Test & Measurement Field, EMC Applications,  
Military & Communication Fields,  
5G Solutions, Lab & Medical Industries  
Automotive & Autonomous Car Industries, Electronic Field

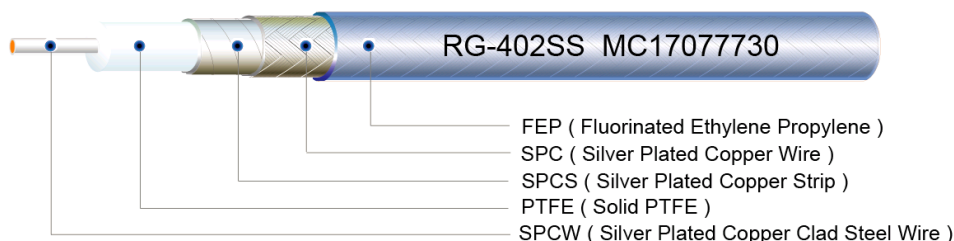


**DESIGN - DEVELOPMENT - MANUFACTURE**

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<p>Low Loss Microwave Cable ( ~ 18.0 GHz ) ( ~ 26.5 GHz )</p> <p>Low Loss Milimeter -Wave Cable ( ~ 33.0 GHz ) ( ~ 40.0 GHz ) ( ~ 50.0 GHz ) ( ~ 70.0 GHz )</p>	<p>MUA210SD ( ~ 18.0 GHz ) ( ~ 26.5 GHz ) ( ~ 33.0 GHz ) MUA210SD DJA ( Armored )</p>	<p>Low Density PTFE Dielectric Low Loss Microwave Cable . Equivalent with Micro-Coax Utiflex UFA210A, Rosenberger RTK 161 . Replacement Cable of Huber+Suhner ( Sucoflex 104 ), Semflex HP190 IW Microwave 1801, 1803 ( Armored MUA210SD DJA ) Times Microwave Systems SilverLine VNA Test Cable for 26.5 GHz ...</p>
	<p>MUA210ST ( ~ 18.0 GHz ), ( ~ 26.5 GHz ) MUA210ST DJA ( Armored )</p>	<p>Low Density PTFE Dielectric Low Loss Microwave Cable . Equivalent with Micro-Coax Utiflex UFA210B, Rosenberger RTK 162 . Replacement Cable of Huber+Suhner ( Sucoflex 104P ) IW Microwave 1806, 1808 ( Armored MUA210ST DJA ) ...</p>
	<p>MUA165SD ( ~ 40.0 GHz ) MUA165SD DJA ( Armored )</p>	<p>Low Density PTFE Dielectric Low Loss Milimeter-Wave Cable . Replacement Cable of Micro-Coax Utiflex UFA147A Huber+Suhner ( Sucoflex 102 ), Gore CXN3507, Rosenberger RTK 106 Semflex HP160, Carlisle ( Tensolite ) TLL40-1130A Times Microwave Systems ( Silver Line Type VNA Test Cable for 40.0 GHz ) ...</p>
	<p>MUA147SD ( ~ 40.0 GHz ) MUA147SD DJA ( Armored )</p>	<p>Low Density PTFE Dielectric Low Loss Milimeter-Wave Cable . Equivalent with Micro-Coax Utiflex UFA147A, Rosenberger RTK 106 . Replacement Cable of Gore CXN3507, Semflex HP160 Huber+Suhner ( Sucoflex 102 ), Carlisle ( Tensolite ) TLL40-1130A Times Microwave Systems ( Silver Line Type VNA Test Cable for 40.0 GHz ) ...</p>
	<p>MUB142SD ( ~ 40.0 GHz ) MUB142SD SAM ( Armored )</p>	<p>Low Density PTFE Dielectric Low Loss Milimeter-Wave Cable . Equivalent with Micro-Coax Utiflex UFB142A . Replacement Cable of Huber+Suhner ( Sucoflex 102 ) IW Microwave 1501, 1503 ( Armored MUB142SD SAM ), Semflex HP160 Gore CXN3507, Carlisle ( Tensolite ) TLL40-1130B Times Microwave Systems ( Silver Line Type VNA Test Cable for 40.0 GHz ) ...</p>
	<p>MUA-F050SD ( ~ 50.0 GHz ) MUA-F050SD SAM ( Armored )</p>	<p>Low Density PTFE Dielectric Low Loss Milimeter-Wave Coaxial Cable . Equivalent with Micro-Coax Utiflex UFA125A, Rosenberger RTK 125 . Replacement Cable of Huber+Suhner ( Sucoflex 101 ), Semflex HP120 IW Microwave 1401, 1403 ( Armored MUA-F050SD SAM ) ...</p>
	<p>MUA-F070SD ( ~ 70.0 GHz ) MUA-F070SD SAM ( Armored )</p>	<p>Low Density PTFE Dielectric Low Loss Milimeter-Wave Coaxial Cable . Replacement Cable of IW Microwave IW 1251, 1151 Rosenberger RTK 092-70 ...</p>
	<p>MUA331SD 180 ( ~ 18.0 GHz ) MUA331SD 060 ( ~ 6.0 GHz )</p>	<p>Low Density PTFE Dielectric Low Loss Microwave Cable . Replacement Cable of Huber+Suhner ( Sucoflex 106 ), Semflex HP305 ...</p>
<p>Spiral Strip Shield Microwave Cable ( ~ 18.0 GHz ) ( ~ 26.5 GHz )</p> <p>Spiral Strip Shield Milimeter -Wave Cable ( ~ 40.0 GHz ) ( ~ 50.0 GHz )</p>	<p>MUB311SD ( ~ 18.0 GHz )</p>	<p>Low Density PTFE Dielectric Ultra Low Loss Microwave Coaxial Cable . Replacement Cable of Micro-Coax Utiflex UFB311A Harbour Industries LL335, IW Microwave IW 2801 Huber+Suhner ( Sucoflex 106 ), Semflex ( LA290, HP305 ) Times Microwave Systems ( HF-290 ) ...</p>
	<p>RG-402SS ( ~ 18.0 GHz, ~ 26.5 GHz )</p>	<p>Phase-Stable PTFE Microwave Coaxial Cable . Replacement Cable of Harbour Industries SS402, Semflex SM402 Huber+Suhner Multiflex_141, Rosenberger RTK Flex 402 Times Microwave Systems Tflex-402, Habia Multibend 402, Micro-Coax HFE 160D ...</p>
	<p>RG-405SS ( ~ 18.0 GHz, ~ 26.5 GHz )</p>	<p>Phase-Stable PTFE Microwave Coaxial Cable . Replacement Cable of Harbour Industries SS405, Semflex SM405 Huber+Suhner Multiflex_86, Rosenberger RTK Flex 405 Times Microwave Systems Tflex-405, Habia Multibend 405, Micro-Coax HFE 100D ...</p>
	<p>RG-401SS ( ~ 18.0 GHz )</p>	<p>Phase-Stable PTFE Microwave Coaxial Cable . Replacement Cable of Harbour Industries SS401 Times Microwave Systems Tflex-401, Habia Multibend 401 ...</p>
<p>High Performance Semi-Flexible Cable ( ~ 18.0 GHz )</p>	<p>RG-405SS SE40/SE50 ( ~ 40.0 GHz, ~ 50.0 GHz )</p>	<p>Phase-Stable Microwave Coaxial Cable . RG-405SS SE40 : Spiral Strip Shield Milimeter-Wave Cable for up to ~ 40.0 GHz . RG-405SS SE50 : Spiral Strip Shield Milimeter-Wave Cable for up to ~ 50.0 GHz</p>
	<p>SF-141 HTA, SF-141 HTA FEP SF-085 HTA, SF-085 HTA FEP ( ~ 18.0 GHz )</p>	<p>High Performance ( VSWR &amp; Insertion Loss ) Semi-Flexible ( Hand-Formable ) Cable . For High Performance Applications for up to ~ 18.0 GHz</p>
	<p>SF-113 HTA SF-113 HTA FEP</p>	<p>High Performance ( VSWR &amp; Insertion Loss ) Semi-Flexible ( Hand-Formable ) Cable . Equivalent with HUBER+SUHNER SUCOFORM_113_CU_FEP</p>

RG Flexible Coaxial Cable ( PTFE Dielectric )	MIL-C-17 Standard & Customized	RG-142, RG-142 LSZH, RG-142 PVC, RG-400, RG-400 LSZH, RG-393 PTFE Dielectric, RG-393 FEP Dielectric, RG-393 PFA Dielectric, RG-316S, RG-316D, RG-316S White FEP ( Replacement of RG-188 ), RG-178, RG-179, RG-179 Double, RG-179 LSZH, RG-179 Triaxial, RG-180, RG-188, RG-196, RG-302 , RG-302 LSZH, RG-303, RG-304, RG-403, RG-404 ...
High Temperature Micro Coaxial Cable ( PTFE Dielectric )	Micro-Coaxial ( Outer Diameter )	MIC-0.81 ( 0.81mm ) , MIC-0.98 ( 0.98mm ) , MIC-1.13 ( 1.13mm ) MIC-1.32 ( 1.32mm ) , MIC-1.37 ( 1.37mm )
Semi-Flexible ( Hand-Formable ) Coaxial Cable ( PTFE Dielectric )	High Performance ( VSWR & Insertion Loss ) ( ~ 18.0 GHz )	. SF-085 HTA, SF-085 HTA FEP ( ~ 18.0 GHz ) . SF-141 HTA, SF-141 HTA FEP ( ~ 18.0 GHz ) . SF-113 HTA, SF-113 HTA FEP ( ~ 18.0 GHz ) ( Equivalent with HUBER+SUHNER SUCOFORM_113_CU_FEP )
	Low Loss & High Performance Semi-Flexible ( ~ 18.0 GHz )	Low Density PTFE Dielectric Low Loss Semi-Flexible Cable . SF-141 LLC, SF-141 LLC FEP . SF-085 LLC, SF-085 LLC FEP
	SF-041 / SF-047	SF-041, SF-047, SF-047 FEP, SF-047 ( 75Ω ), SF-047 ( 75Ω ) FEP ...
	SF-085	SF-085, SF-085 FEP, SF-085 LSZH, SF-085 ( 75Ω ) , SF-085 ( 75Ω ) FEP SF-085 SPC, SF-085 SPC FEP, SF-085 SPC LSZH Replacement Cable of Huber+Suhner SUCOFORM_86, Habia Flexiform 405 Micro-Coax UT-085-FORM, UT-085C-FORM ...
	SF-141	SF-141, SF-141 FEP, SF-141 LSZH SF-141 SPC, SF-141 SPC FEP, SF-141 SPC LSZH SF-141 ( 75Ω ), SF-141 ( 35Ω ), SF-141 ( 12.5Ω ), SF-141 ( 100Ω ) ... Replacement Cable of Huber+Suhner SUCOFORM_141, Habia Flexiform 402 Micro-Coax UT-141-FORM, UT-141C-FORM ...
	SF-250	SF-250 SPC , SF-250 SPC FEP, SF-250 SPC LSZH ... Replacement Cable of Huber+Suhner SUCOFORM_250, Habia Flexiform 401 Micro-Coax UT-250-FORM, UT-250C-FORM ...
Semi-Rigid Coaxial Cable ( PTFE Dielectric )	SR-031 / SR-034	Tin Plated Copper Tube, Bare Copper Tube Replacement Cable of Micro-Coax UT-34, UT-34-TP ...
	SR-047	Tin Plated Copper Tube, Bare Copper Tube Replacement Cable of Micro-Coax UT-47, UT-47-TP ...
	SR-085	Tin Plated Copper Tube, Bare Copper Tube, Tin Plated Aluminum Tube Replacement Cable of Micro-Coax UT-85, UT-85-TP, UT-85-AL-TP, UT-85-75 UT-85-75 TP, UT-85-75-AL-TP, UT-85C, UT-85C-TP, UT-85C-AL-TP ...
	SR-141	Tin Plated Copper Tube, Bare Copper Tube, Tin Plated Aluminum Tube Replacement Cable of Micro-Coax UT-141A, UT-141A-TP, UT-141A-AL-TP UT-141C, UT-141C-TP, UT-141C-AL-TP, UT-141C-15, UT-141C-25, UT-141C-35 UT-141-70, UT-141-75, UT-141-75-TP, UT-141-75-AL-TP ...
	SR-250	Tin Plated Copper Tube, Bare Copper Tube, Tin Plated Aluminum Tube Replacement Cable of Micro-Coax UT-250C, UT-250C-TP, UT-250C-AL-TP ...
RG Flexible Coaxial Cable ( Solid PE Dielectric )	MIL-C-17 Standard & Customized	RG-6 A/U, RG-8 /U, RG-8 A/U, RG-11 /U, RG-11 A/U, RG-58 /U, RG-58 C/U RG-58 A/U, RG-59 /U, RG-59 A/U, RG-59 B/U, RG-174/U, RG-212 /U, RG-213 /U RG-214 /U, RG-216 /U, RG-223 /U ...
Flexible Low Loss Communication Coaxial Cable ( PE Foam Dielectric )	LMR-XXX Type	MFT-100A, MFT-195, MFT-200, MFT-240, MFT-300, MFT-400, MFT-500, MFT-600, MFT-900
Ultra Flexible ( UF ) Low Loss Communication Coaxial Cable ( PE Foam Dielectric )	LMR-XXX UF Type	MFT-195 UF, MFT-200 UF , MFT-240 UF , MFT-300 UF, MFT-400 UF, MFT-500 UF, MFT-600 UF
Flexible Low Loss Plenum Coaxial Cable ( Low density PTFE Dielectric )	LMR-XXX LLPL Type	MPFT-195 LLPL, MPFT-200 LLPL, MPFT-240 LLPL, MPFT-300 LLPL MPFT-400 LLPL, MPFT-500 LLPL, MPFT-600 LLPL
Flexible Low Loss High Power Communication Plenum Coaxial Cable ( Low density PTFE Dielectric )	FBT-XXX Type	MHP-PFT 195, MHP-PFT 200, MHP-PFT 240, MHP-PFT 300, MHP-PFT 400, MHP-PFT 600

**RG-402SS****Spiral Strip Shield Microwave Cable**

**Replacement Cable of Harbour Industries SS402, Semflex SM402  
Huber+Suhner Multiflex\_141, Rosenberger RTK Flex 402  
Times Microwave Systems Tflex-402, Habia Multibend 402,  
Micro-Coax HFE 160D ...**

**Construction**

Item	Material	Diameter	Remark
Center Conductor	SPCW	0.94 mm ( 0.037 inch )	Solid
Dielectric	PTFE	2.97 mm ( 0.117 inch )	Solid
Inner Shield	SPCS	3.25 mm ( 0.128 inch )	Wrapping
Outer Shield	SPC	3.58 mm ( 0.141 inch )	Braid
Jacket	FEP	4.14 mm ( 0.163 inch )	Blue

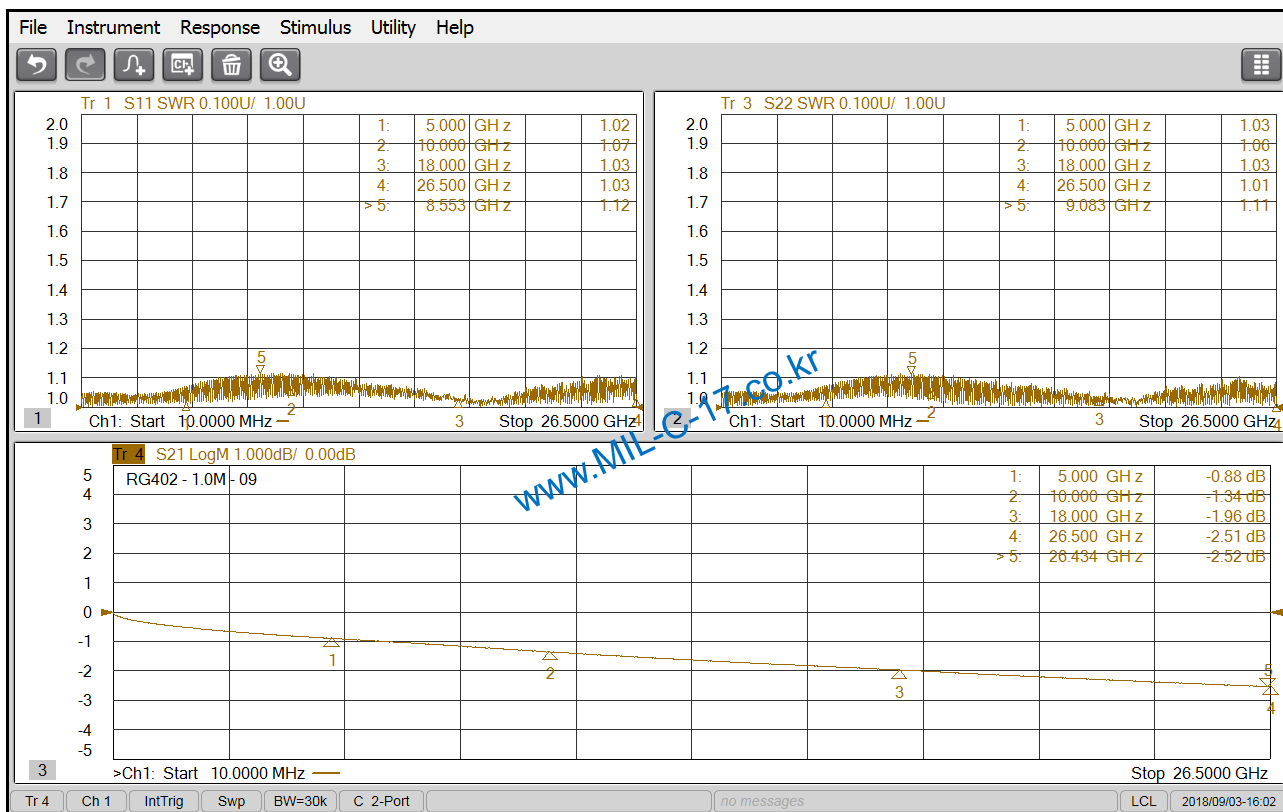
**Electrical & Mechanical Data**

Characteristic Impedance	50 $\Omega$
Operating Frequency	26.5 GHz
Velocity of Propagation	70 %
Capacitance	96 pF/m
Operating Temperature	- 55°C ~ 200°C
Shield Effectiveness	> 100 dB
Working Voltage	1,900 Vrms ( Max. )
Weight	43.6 kg / km
Min. Bending Radius	20 mm ( Single )

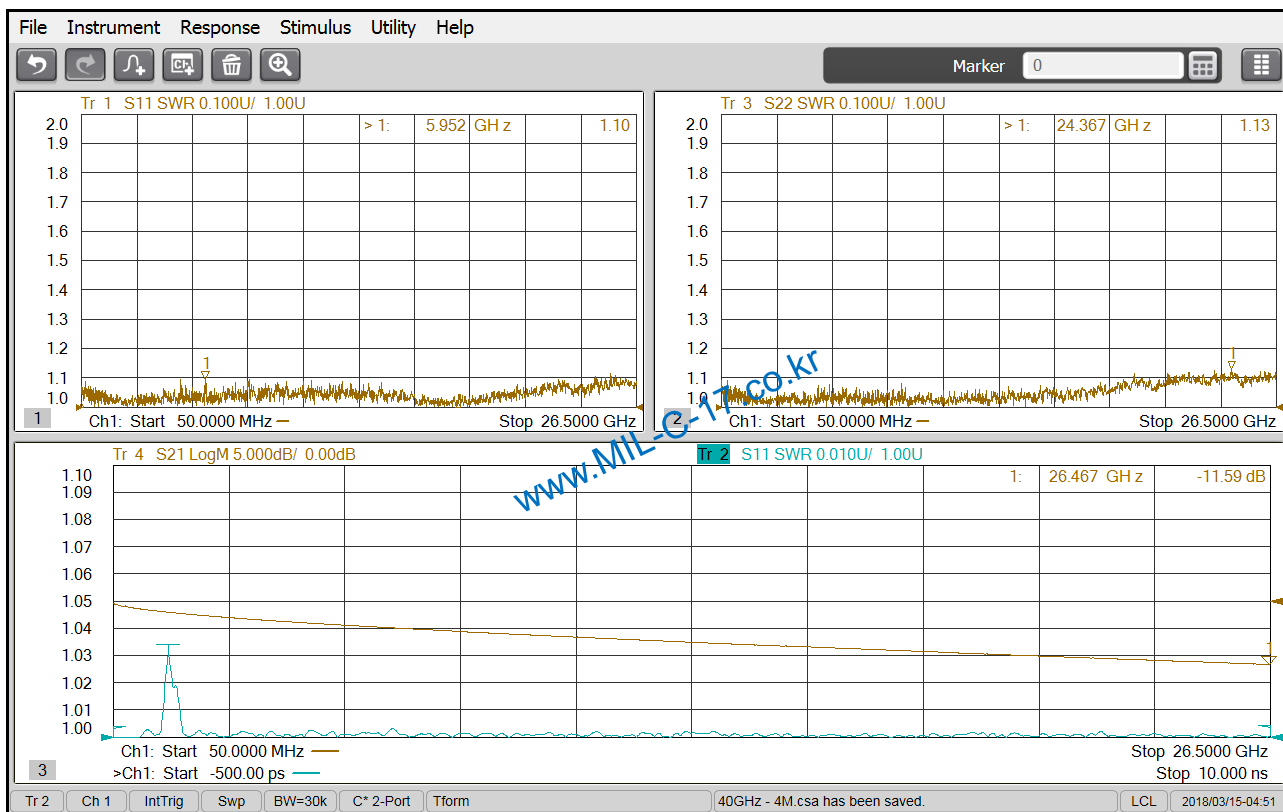
**Attenuation**

Frequency (GHz)	Max. Attenuation	
	(dB/m)	(dB/ft)
1.0	0.43	0.131
3.0	0.75	0.229
5.0	0.98	0.299
10.0	1.47	0.448
15.0	1.87	0.570
18.0	2.10	0.640
26.5	2.65	0.808

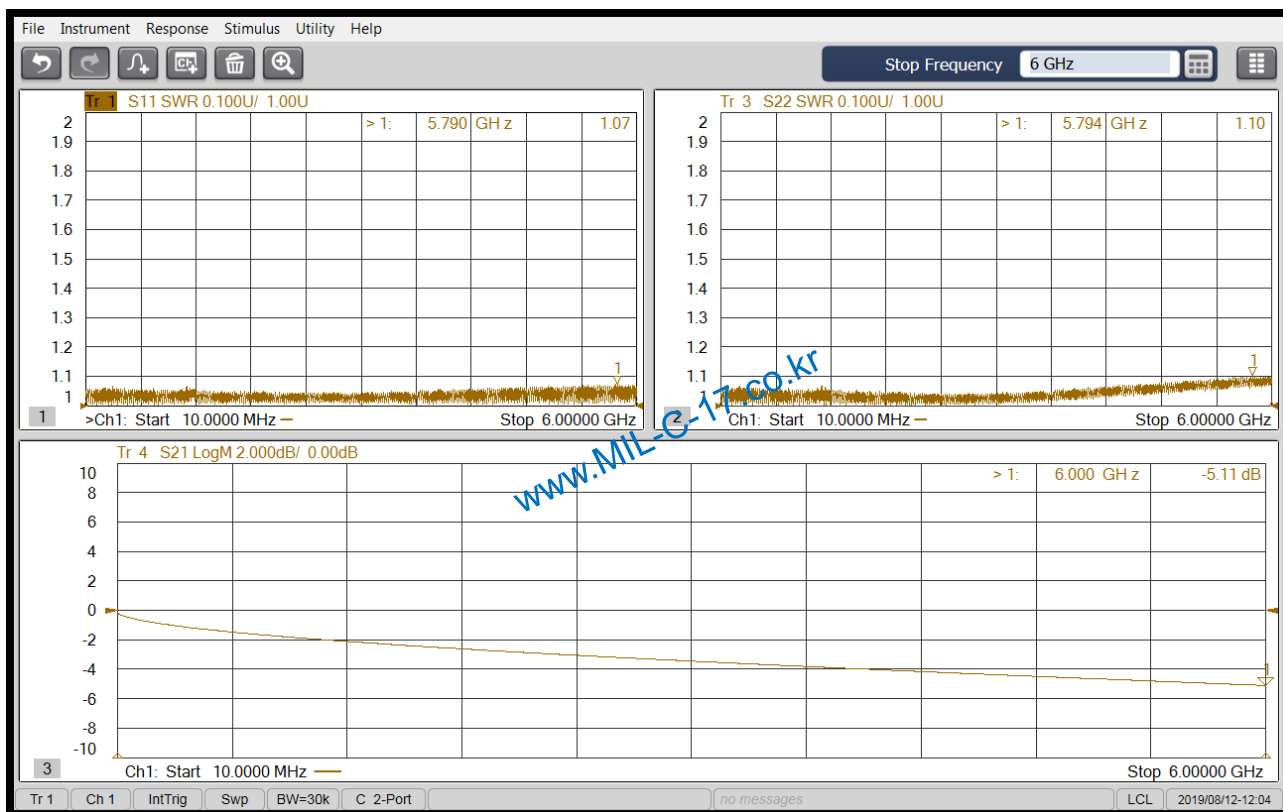
## SMA Male/Male Assembly for ~ 26.5 GHz ( RG-402SS 1.0 Meter )



# SMA Male/Male Assembly for ~ 26.5 GHz (RG-402SS 5.0 Meter)



**SMA (M) Straight / Right Angle for ~ 6.0 GHz**  
**( RG-402SS 5.0 Meter )**



***N Male/Male Assembly for ~ 6.0 GHz***  
***( RG-402SS 5.0 Meter )***

