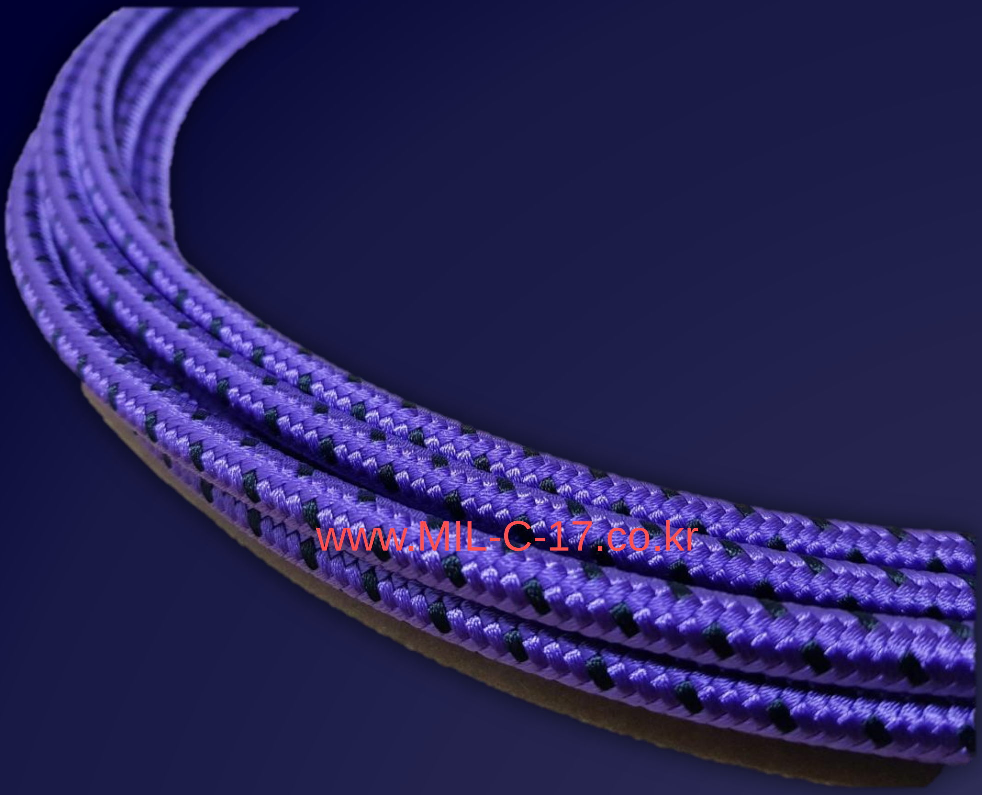
Up to ~ 40GHz
Low Loss
RF, Microwave & MiliMeter-Wave
Coaxial Cables & Assemblies

Low Loss RF, Microwave, MiliMeter-Wave Coaxial Cables & Assemblies
with Highly Excellent Electrical and Physical Performances
for Test & Measurement Applications,
EMC, Military & Communication Fields,
5G Solutions, Lab, Medical, Industry…

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| | | |
|---|---|---|
| Low Loss Microwave Cable<br>( ~ 18.0 GHz )<br>( ~ 26.5 GHz )<br><br>Low Loss Milimeter -Wave Cable<br>( ~ 33.0 GHz )<br>( ~ 40.0 GHz ) | MUA210ST<br>MUA210SD<br>( ~ 26.5 GHz )<br>( ~ 33.0 GHz ) | Low Density PTFE Dielectric Low Loss Microwave Coaxial Cable<br>Replacement Cable for ~ Micro-Coax ( UFA210B, UFA210A, UFB197C, UFB205A ), Semflex ( HP190 ), IW ( IW180x ), Harbour Industries ( LL142 ), Times Microwave Systems ( Silver Line Test Cable for 26.5 GHz )<br>. 3.5mm, SMA, N Type Connector & Assembly |
| | MUA165SD<br>( ~ 40.0 GHz ) | Low Density PTFE Dielectric Low Loss Milimeter-Wave Coaxial Cable<br>. 2.92mm Connector & Assembly |
| | MUA331SD, MUA331ST<br>( ~ 18.0 GHz ) | Low Density PTFE Dielectric Ultra Low Loss Microwave Coaxial Cable<br>Replacement Cable for ~ Micro-Coax ( UFB311A, UFB293C , LL335, HP305 )<br>. SMA, N Type Connector & Assembly |
| Spiral Strip Shield Microwave Cable<br>( ~ 18.0 GHz )<br>( ~ 26.5 GHz )<br><br>Spiral Strip Shield Milimeter -Wave Cable<br>( ~ 33.0 GHz )<br>( ~ 40.0 GHz ) | RG-402SS<br>( ~ 18.0 GHz, ~ 26.5 GHz<br>~ 33.0 GHz ) | Phase-Stable Microwave Coaxial Cable<br>Replacement Cable for SS402, Semflex SM402, Tflex-402,<br>Multibend 402 , Multiflex_141 Cable |
| | RG-405SS<br>( ~ 18.0 GHz, ~ 26.5 GHz ) | Phase-Stable Microwave Coaxial Cable<br>Replacement Cable for SS405, Semflex SM405, Tflex-405,<br>Multibend 405, Multiflex_86 Cable |
| | RG-401SS<br>( ~ 18.0 GHz ) | Phase-Stable Microwave Coaxial Cable<br>Replacement Cable for SS401,Tflex-401, Multibend 401 Cable |
| | RG-405SS SE40<br>( ~ 40.0 GHz ) | Phase-Stable Microwave Coaxial Cable<br>Spiral Strip Shield Milimeter -Wave Cable for up to ~ 40.0 GHz |
| RG Flexible Cable<br><br>RG Flexible Cable<br>Military ( ~ 12.4 GHz ) | MIL-C-17 Standard | RG-142, RG-142 PVC Jacket, RG-400, RG-393 PTFE, RG-393 FEP, RG-393 PFA, RG-316 Single, RG-316 Double, RG-174, RG-178, RG-179, RG-179 Double, RG-179 Triaxial Cable, RG-180, RG-302 , RG-302 HF, RG-303, RG-304, RG-316 White ( RG-188 ) ······ |
| Semi-Flexible Cable<br>( Hand-Formable Cable ) | SF-047 | SF-047 NJ, SF-047 FEP Jacket ······ |
| | SF-085 | SF-085 NJ, SF-085 FEP Jacket, SF-085 PVC Jacket , SF-085 HF Jacket<br>SF-085 75Ω NJ , SF-085 75Ω FEP Jacket ······ |
| | SF-141 | SF-141 NJ, SF-141 FEP Jacket , SF-141 PVC Jacket ,<br>SF-141 SPC NJ ,SF-141 SPC FEP Jacket, SF-141 SPC PVC Jacket<br>SF-141 75Ω NJ, SF-141 35Ω NJ, SF-141 12.5Ω NJ ······ |
| | SF-171 | SF-171 SPC NJ , SF-171 SPC FEP Jacket, SF-171 SPC PVC Jacket ······ |
| | SF-250 | SF-250 SPC NJ , SF-250 SPC FEP Jacket ······ |
| High Performance ( VSWR )<br>Semi-Flexible Cable<br>( Hand-Formable Cable ) | High Performance<br>( VSWR ) | SF-141 HTA, SF-113 HTA ······ |
| High Performance ( Low Loss )<br>Semi-Flexible Cable<br>( Hand-Formable Cable ) | High Performance<br>( Low Loss ) | SF-141 LLC, SF-085 LLC ······ |
| Semi-Rigid Cable | SR-034 | Silver Plated Copper Clad Steel Wire ( SPCW, SCCS ),<br>Tin Plated Copper Tube |
| | SR-047 | Silver Plated Copper Clad Steel Wire ( SPCW, SCCS )<br>Tin Plated Copper Tube, Bare Copper Tube |
| | SR-085 | Silver Plated Copper Clad Steel Wire ( SPCW, SCCS )<br>Silver Plated Copper Wire ( SPC )<br>Tin Plated Copper Tube, Tin Plated Aluminum Tube, Bare Copper Tube |
| | SR-141 | Silver Plated Copper Clad Steel Wire ( SPCW, SCCS )<br>Silver Plated Copper Wire ( SPC )<br>Tin Plated Copper Tube, Tin Plated Aluminum Tube, Bare Copper Tube |
| | SR-250 | Silver Plated Copper Wire ( SPC )<br>Tin Plated Copper Tube, Tin Plated Aluminum Tube, Bare Copper Tube |

Flexible Microwave Coaxial Cable

( ~ 18.0 GHz, ~ 26.5 GHz )

Excellence in VSWR ( Return Loss )

# RG-402 SS

| | |
|---|---|
| RG-402SS<br>( ~ 18.0 Ghz, ~ 26.5 GHz ) | Phase-Stable Microwave Coaxial Cable<br>Replacement Cable for SS402, Semflex SM402, Tflex-402, Multibend 402, Multiflex_141 Cable |
| RG-405SS<br>( ~ 18.0 GHz, ~ 26.5 GHz ) | Phase-Stable Microwave Coaxial Cable<br>Replacement Cable for SS405, Semflex SM405, Tflex-405, Multibend 405, Multiflex_86 Cable |
| RG-401SS<br>( ~ 18.0 GHz ) | Phase-Stable Microwave Coaxial Cable<br>Replacement Cable for SS401, Tflex-401, Multibend 401 Cable |

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# RG-402SS

## *Spiral Strip Shield Microwave Cable*

***Equivalent with SS402, Multiflex_141, Semflex SM402, Tflex-402, Multibend 402***


## 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 |

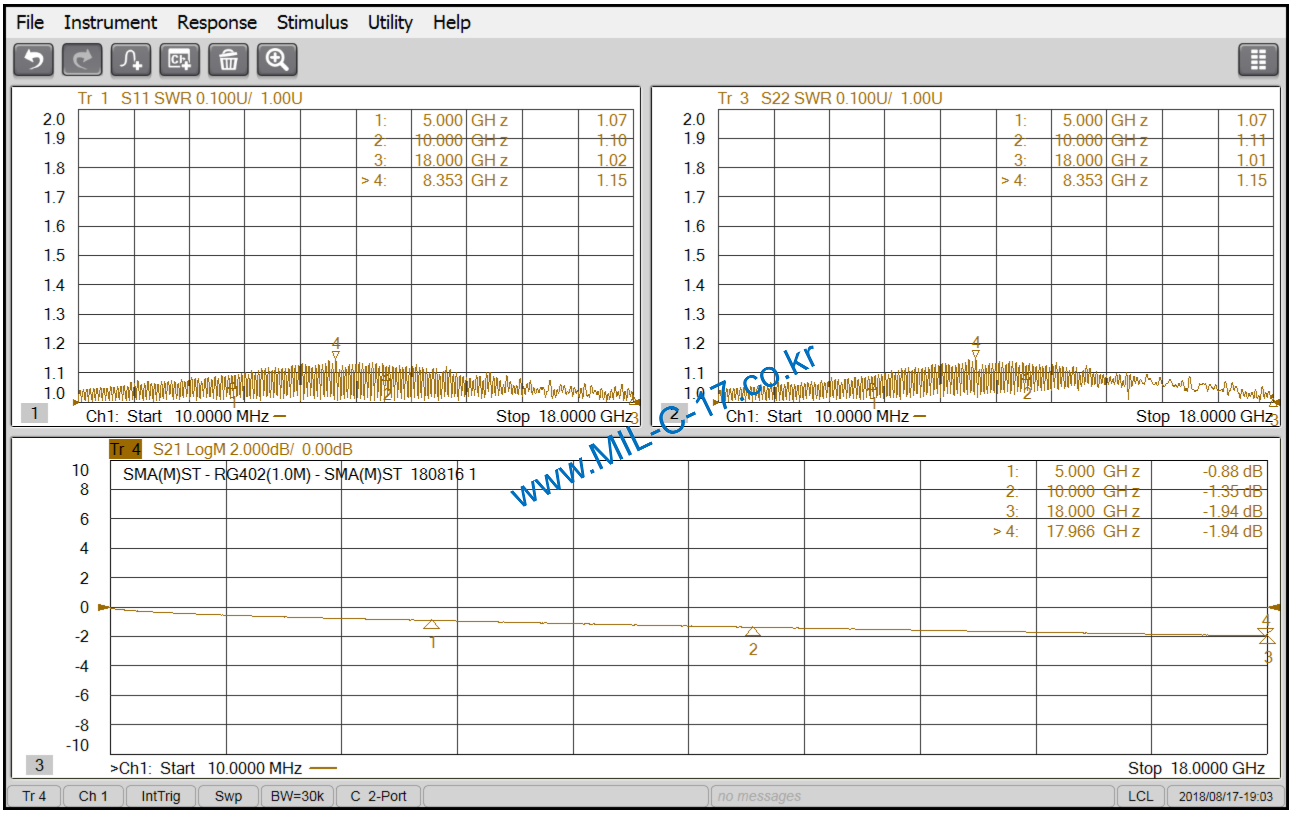
## Electrical & Mechanical Data

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

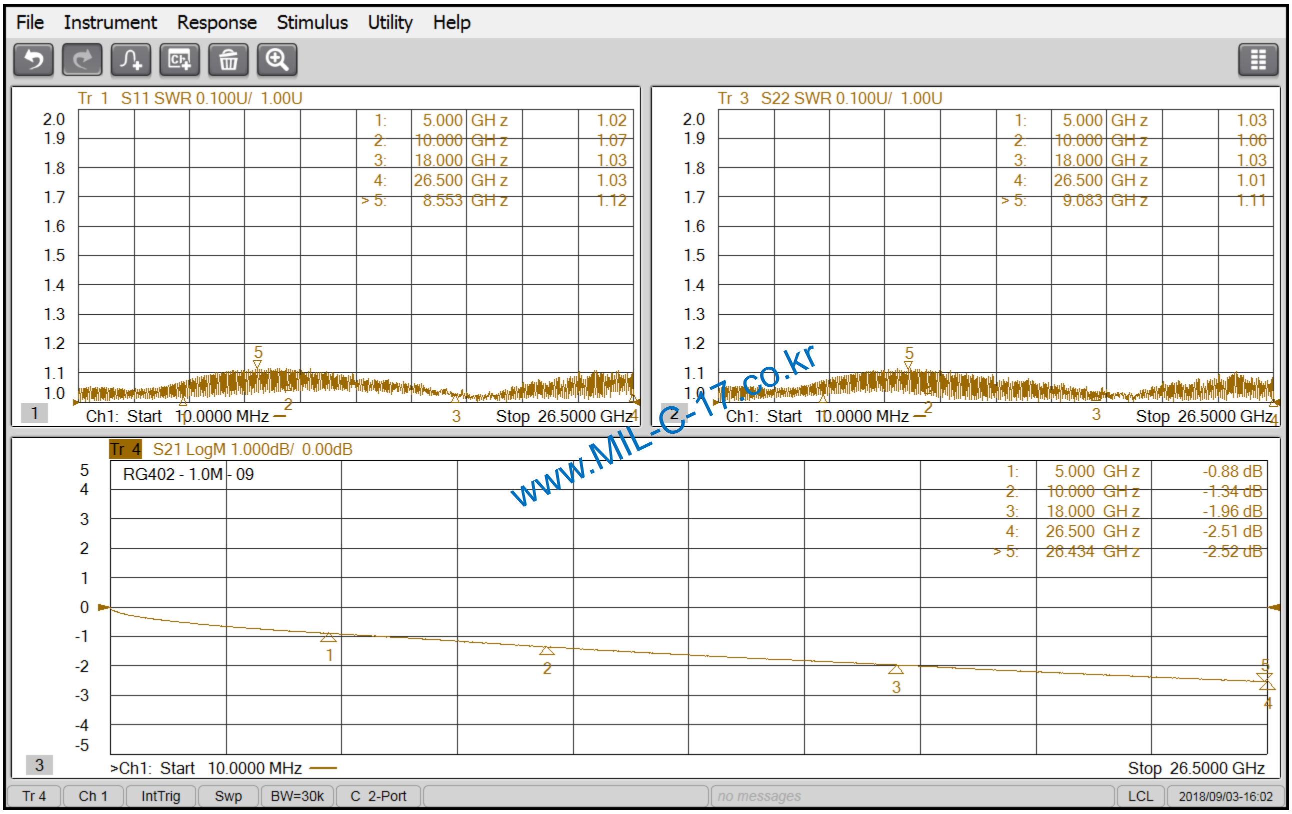
## Attenuation

| Frequency (GHz) | Max. Attenuation (dB/m) | (dB/ft) |
|---|---|---|
| 1 | 0.43 | 0.131 |
| 3 | 0.75 | 0.229 |
| 5 | 0.98 | 0.299 |
| 10 | 1.47 | 0.448 |
| 15 | 1.87 | 0.570 |
| 18 | 2.10 | 0.640 |

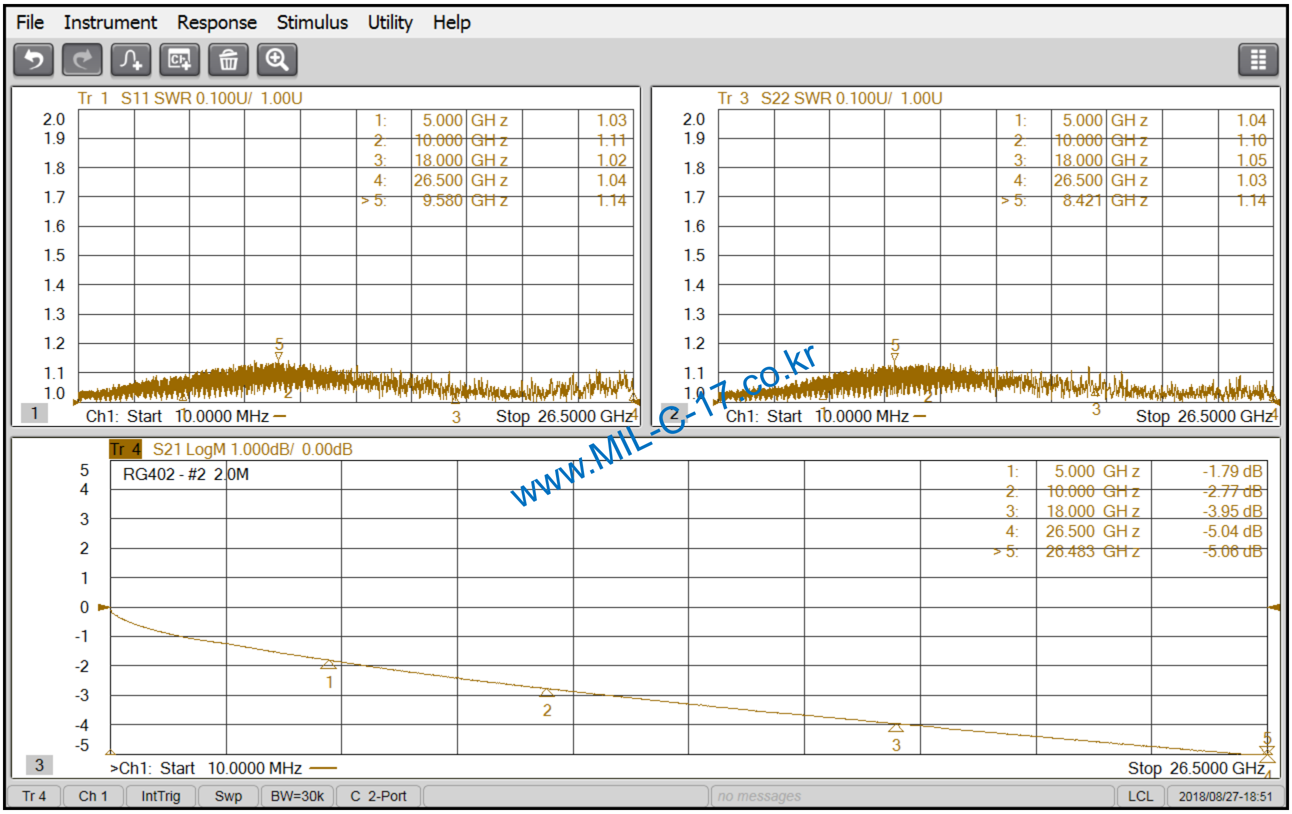
# *SMA-SMA Assembly for up to 18.0 GHz*
# *( RG-402SS 1 Meter )*



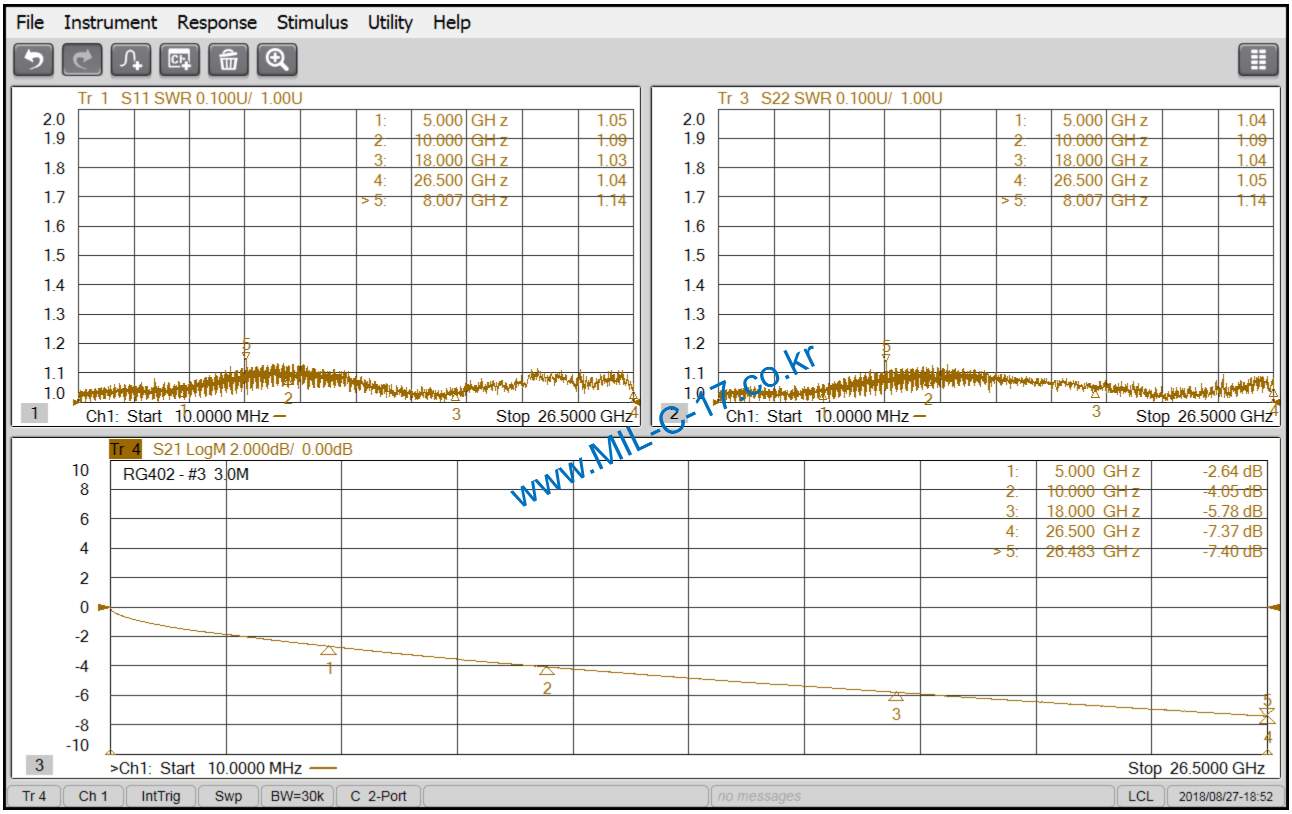
# SMA-SMA Assembly for up to 26.5 GHz
# ( RG-402SS 1 Meter )



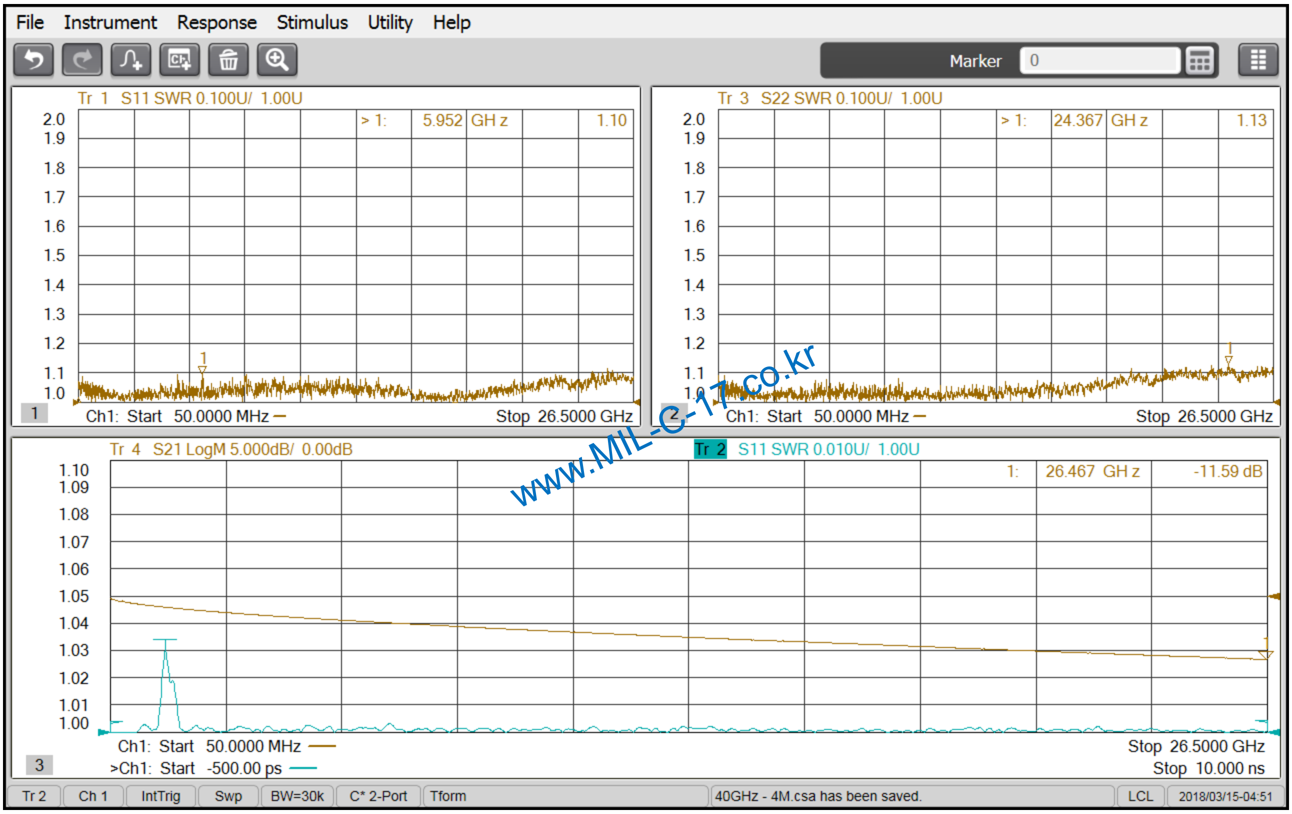
# SMA-SMA Assembly for up to 26.5 GHz
# ( RG-402SS 2 Meter )



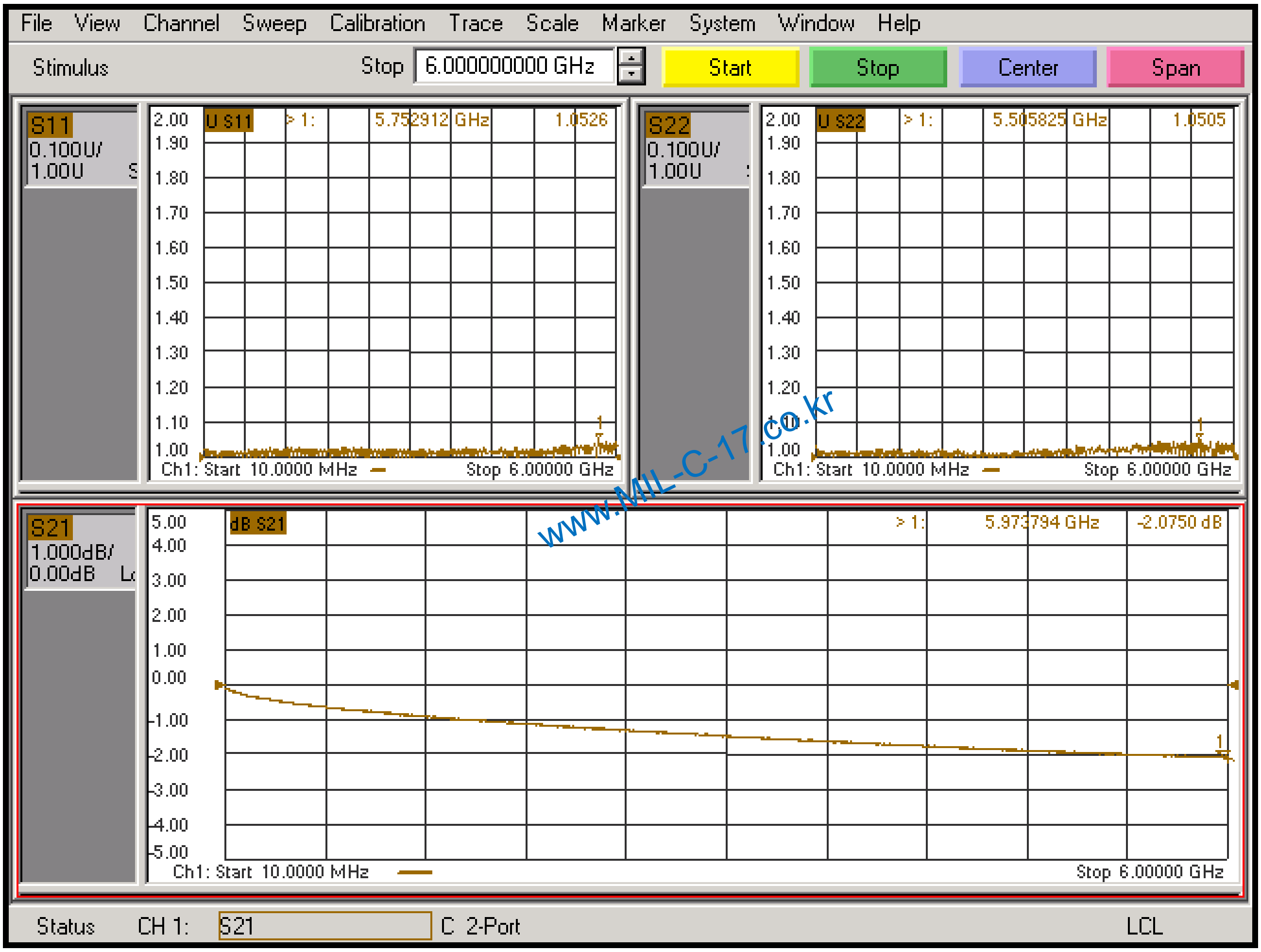
# SMA-SMA Assembly for up to 26.5 GHz
# ( RG-402SS 3 Meter )



# SMA-SMA Assembly for up to 26.5 GHz
# ( RG-402SS 5 Meter )



# N Type – N Type Assembly for up to 6.0 GHz
# By RG-402SS 1 Meter Length



Flexible Microwave Coaxial Cable

( ~ 18.0 GHz, ~ 26.5 GHz )

Excellence in VSWR ( Return Loss )

# RG-405 SS


| | |
|---|---|
| RG-402SS<br>( ~ 18.0 Ghz, ~ 26.5 GHz ) | Phase-Stable Microwave Coaxial Cable<br>Replacement Cable for SS402, Semflex SM402, Tflex-402, Multibend 402, Multiflex_141 Cable |
| RG-405SS<br>( ~ 18.0 GHz, ~ 26.5 GHz ) | Phase-Stable Microwave Coaxial Cable<br>Replacement Cable for SS405, Semflex SM405, Tflex-405, Multibend 405, Multiflex_86 Cable |
| RG-401SS<br>( ~ 18.0 GHz ) | Phase-Stable Microwave Coaxial Cable<br>Replacement Cable for SS401, Tflex-401, Multibend 401 Cable |

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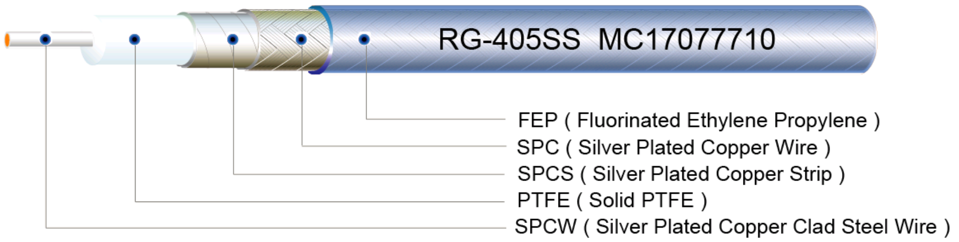
# RG-405SS

## *Spiral Strip Shield Microwave Cable*

***Equivalent with SS405, Multiflex_86, Semflex SM 405, Tflex-405, Multibend 405***




## Construction

| **Item** | **Material** | **Diameter** | **Remark** |
|---|---|---|---|
| Center Conductor | SPCW | 0.51 mm ( 0.0201 inch ) | Solid |
| Dielectric | PTFE | 1.63 mm ( 0.064 inch ) | Solid |
| Inner Shield | SPCS | 1.80 mm ( 0.071 inch ) | Wrapping |
| Outer Shield | SPC | 2.18 mm ( 0.086 inch ) | Braid |
| Jacket | FEP | 2.64 mm ( 0.104 inch ) | Blue |

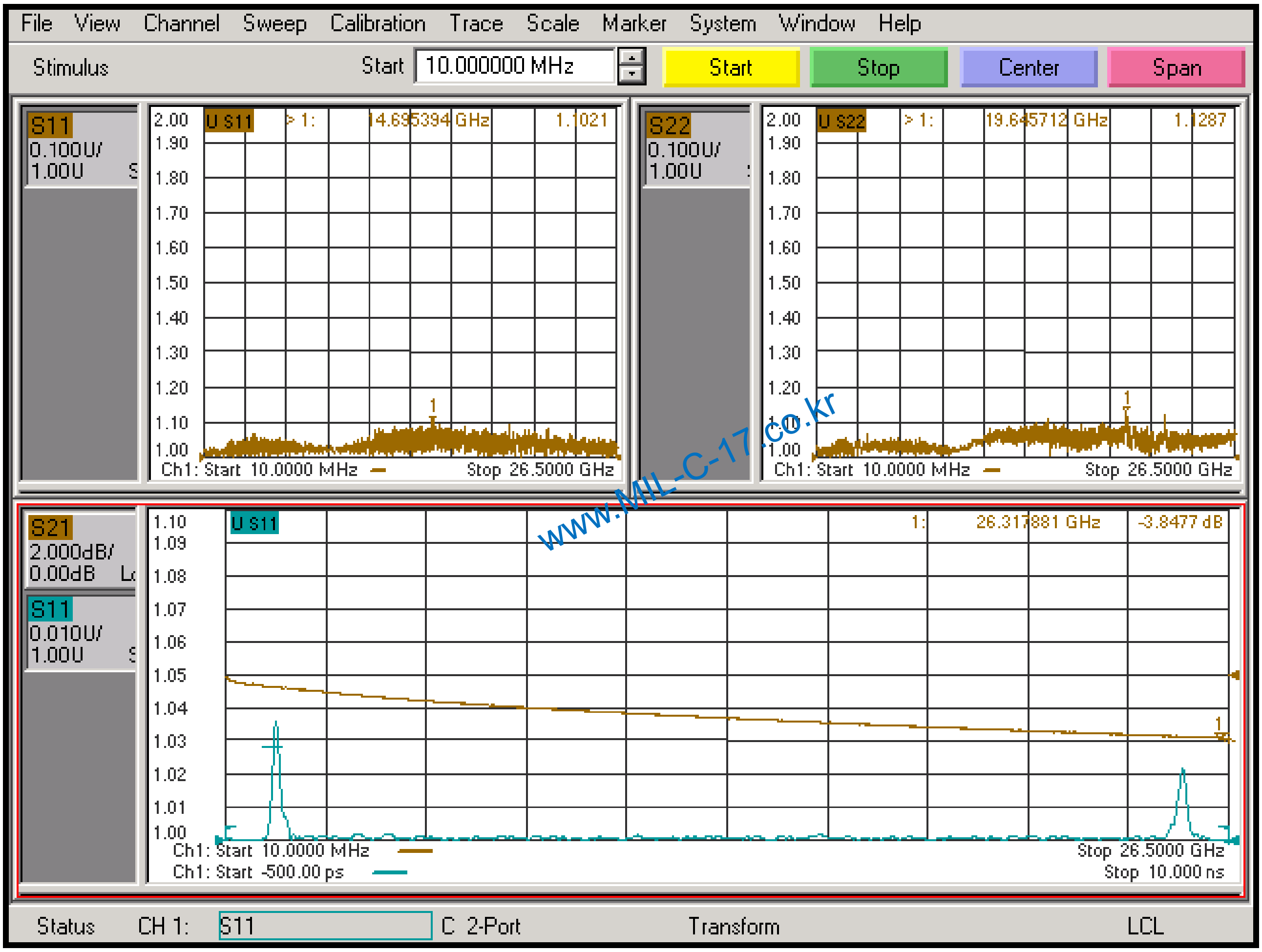
## Electrical & Mechanical Data

| | |
|---|---|
| Characteristic Impedance | 50 Ω |
| Operating Frequency | 20 GHz ( Max. ) |
| Velocity of Propagation | 70 % |
| Capacitance | 96 pF/m |
| Operating Temperature | - 55℃ ~ 200℃ |
| Shield Effectiveness | > -100 dB |
| Working Voltage | 1,500 Vrms ( Max. ) |
| Weight | 19.1 kg / km |
| Min. Bending Radius | 6 mm ( Single ) |

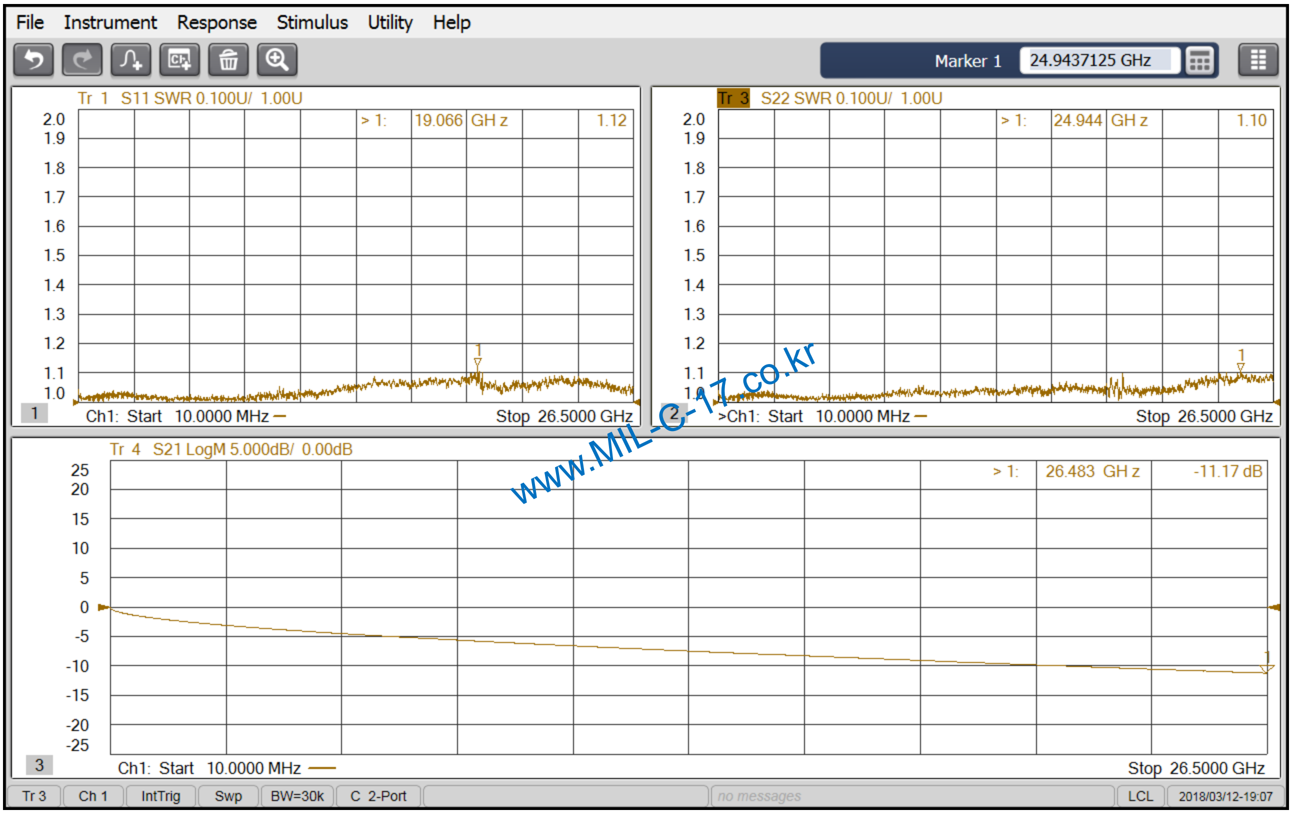
## Attenuation

| Frequency | Max. Attenuation | |
|---|---|---|
| (GHz) | (dB/m) | (dB/ft) |
| 1 | 0.75 | 0.229 |
| 3 | 1.29 | 0.393 |
| 5 | 1.71 | 0.521 |
| 10 | 2.56 | 0.780 |
| 15 | 3.22 | 0.981 |
| 18 | 3.57 | 1.088 |
| 20 | 3.80 | 1.158 |

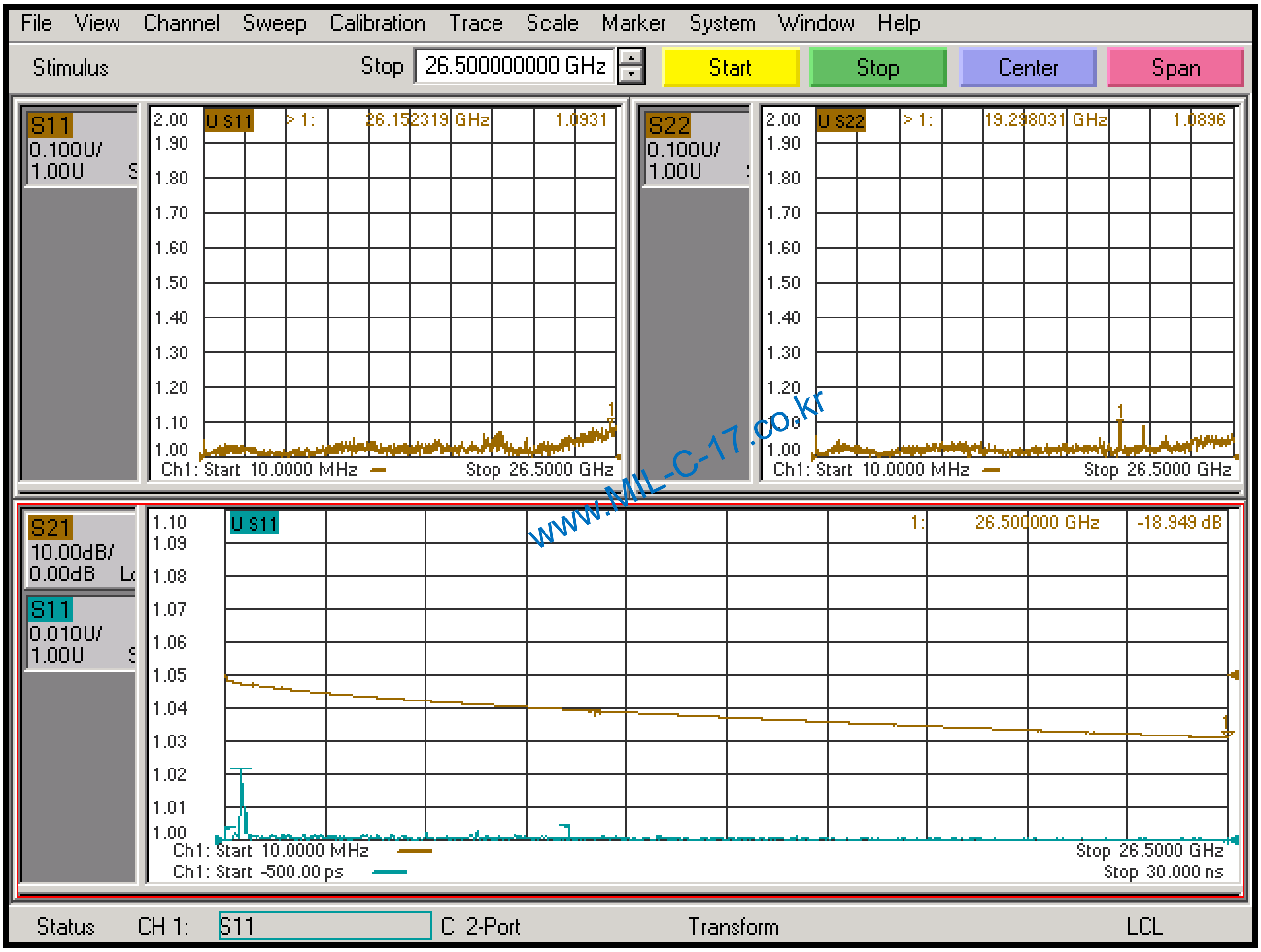
# SMA-SMA Assembly for up to 26.5 GHz
# By RG-405SS 1.0 Meter Length



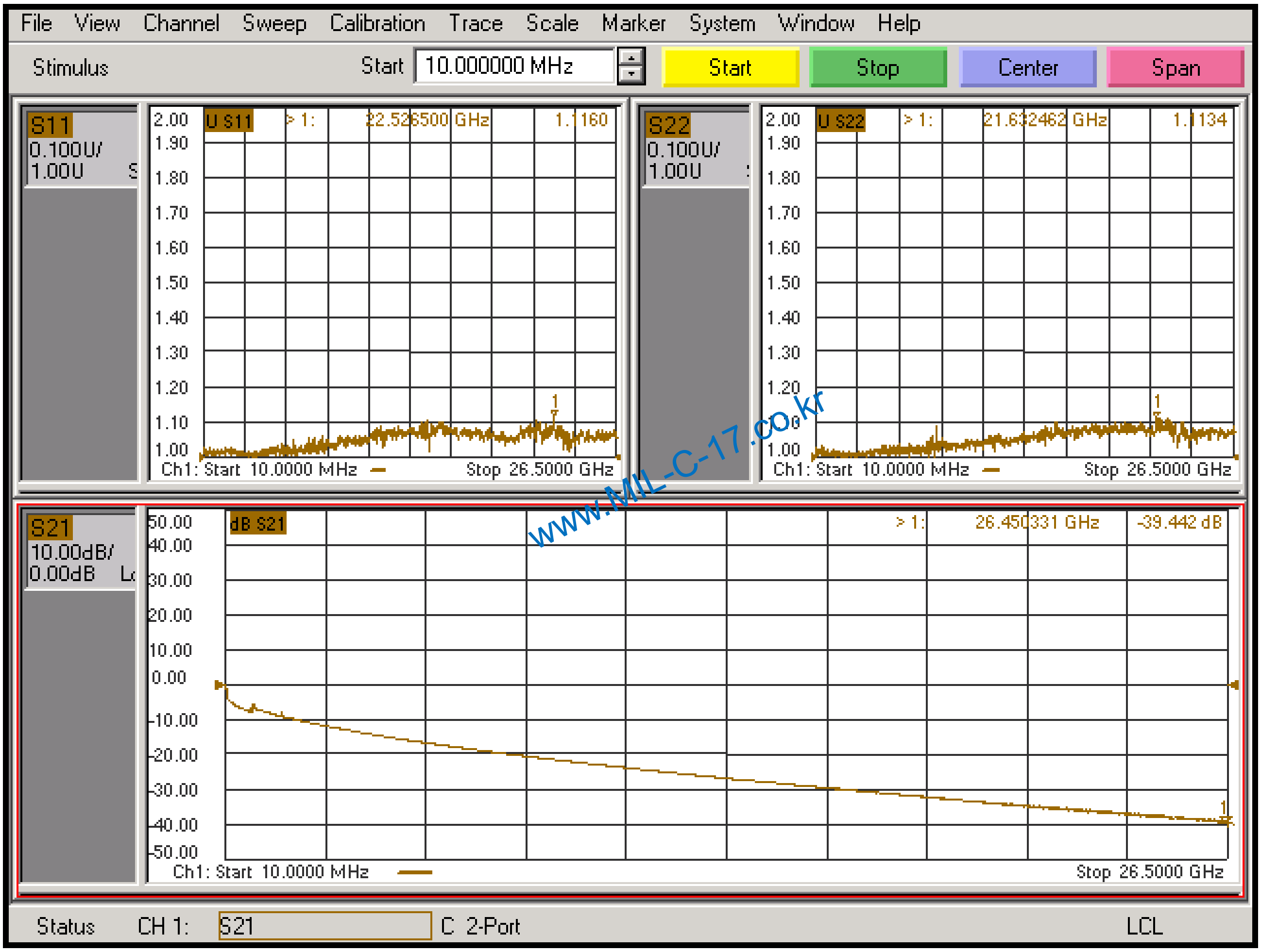
# SMA-SMA Assembly for up to 26.5 GHz
# By RG-405SS 3.0 Meter Length



# *SMA-SMA Assembly for up to 26.5 GHz By RG-405SS 5.0 Meter Length*



# *SMA-SMA Assembly for up to 26.5 GHz*
# *By RG-405SS 10 Meter Length*



Flexible Microwave Coaxial Cable

( ~ 18.0 GHz, ~ 26.5 GHz )

Excellence in VSWR ( Return Loss )

# RG-401 SS


| | |
|---|---|
| RG-402SS<br>( ~ 18.0 Ghz, ~ 26.5 GHz ) | Phase-Stable Microwave Coaxial Cable<br>Replacement Cable for SS402, Semflex SM402, Tflex-402, Multibend 402, Multiflex_141 Cable |
| RG-405SS<br>( ~ 18.0 GHz, ~ 26.5 GHz ) | Phase-Stable Microwave Coaxial Cable<br>Replacement Cable for SS405, Semflex SM405, Tflex-405, Multibend 405, Multiflex_86 Cable |
| RG-401SS<br>( ~ 18.0 GHz ) | Phase-Stable Microwave Coaxial Cable<br>Replacement Cable for SS401, Tflex-401, Multibend 401 Cable |

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# RG-401SS *Spiral Strip Shield Microwave Cable*

*Equivalent with SS401,Tflex-401, Multibend 401*


## Construction

| Item | Material | Diameter | Remark |
|---|---|---|---|
| Center Conductor | SPC | 1.67 mm ( 0.0657 inch ) | Solid |
| Dielectric | PTFE | 5.31 mm ( 0.209 inch ) | Solid |
| Inner Shield | SPCS | 5.60 mm ( 0.220 inch ) | Wrapping |
| Outer Shield | SPC | 6.35 mm ( 0.250 inch ) | Braid |
| Jacket | FEP | 7.10 mm ( 0.280 inch ) | Blue |

## Electrical & Mechanical Data

| | |
|---|---|
| Characteristic Impedance | 50 Ω |
| Operating Frequency | 18 GHz ( Max. ) |
| Velocity of Propagation | 70 % |
| Capacitance | 94 pF/m |
| Operating Temperature | - 55℃ ~ 200℃ |
| Shield Effectiveness | > -100 dB |
| Working Voltage | 3,000 Vrms ( Max. ) |
| Weight | 140 kg / km |
| Min. Bending Radius | 40 mm ( Single ) |

## Attenuation

| Frequency (GHz) | Max. Attenuation (dB/m) | (dB/ft) |
|---|---|---|
| 0.4 | 0.14 | 0.043 |
| 1 | 0.23 | 0.070 |
| 3 | 0.42 | 0.128 |
| 5 | 0.57 | 0.174 |
| 10 | 0.88 | 0.268 |
| 18 | 1.45 | 0.442 |