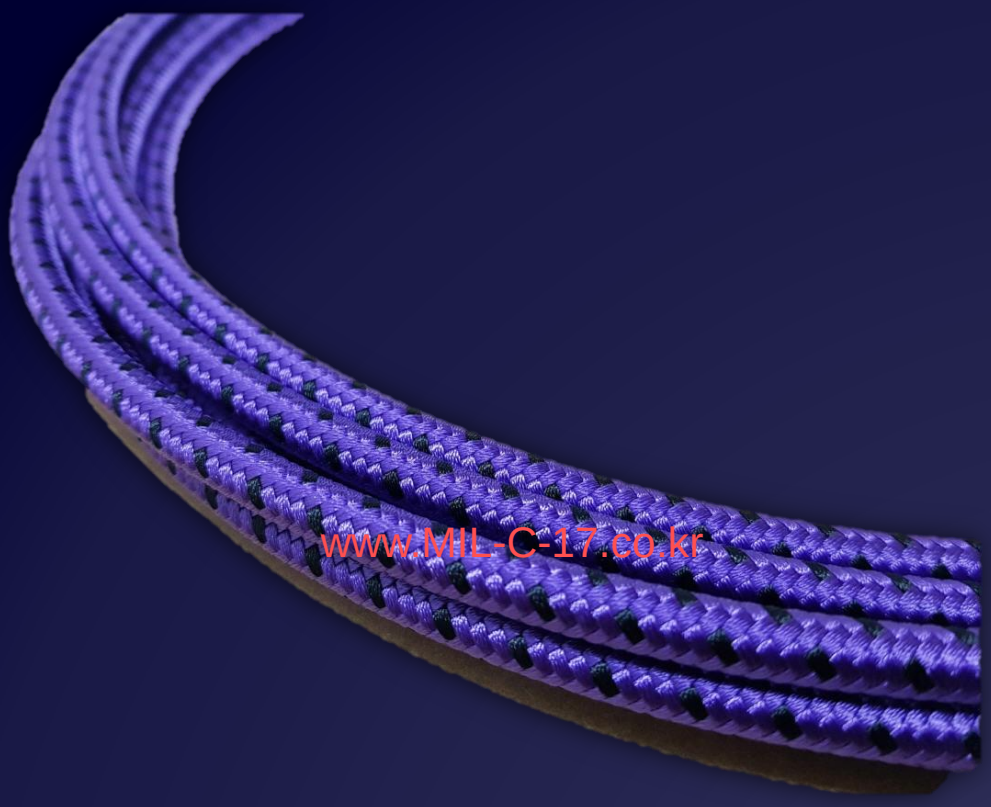
Up to ~ 40GHz
Low Loss
RF, Microwave & MiliMeter-Wave
Coaxial Cables & Assemblies

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…



DESIGN - DEVELOPMENT - MANUFACTURE

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Low Loss Microwave Cable (~ 18.0 GHz) (~ 26.5 GHz) Low Loss Milimeter -Wave Cable (~ 33.0 GHz) (~ 40.0 GHz)	MUA210ST MUA210SD (~ 26.5 GHz) (~ 33.0 GHz)	Low Density PTFE Dielectric Low Loss Microwave Coaxial Cable 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) . 3.5mm, SMA, N Type Connector & Assembly
	MUA165SD (~ 40.0 GHz)	Low Density PTFE Dielectric Low Loss Milimeter-Wave Coaxial Cable . 2.92mm Connector & Assembly
	MUA331SD, MUA331ST (~ 18.0 GHz)	Low Density PTFE Dielectric Ultra Low Loss Microwave Coaxial Cable Replacement Cable for ~ Micro-Coax (UFB311A, UFB293C , LL335, HP305) . SMA, N Type Connector & Assembly
Spiral Strip Shield Microwave Cable (~ 18.0 GHz) (~ 26.5 GHz) Spiral Strip Shield Milimeter -Wave Cable (~ 33.0 GHz) (~ 40.0 GHz)	RG-402SS (~ 18.0 GHz, ~ 26.5 GHz ~ 33.0 GHz)	Phase-Stable Microwave Coaxial Cable Replacement Cable for SS402, Semflex SM402, Tflex-402, Multibend 402 , Multiflex_141 Cable
	RG-405SS (~ 18.0 GHz, ~ 26.5 GHz)	Phase-Stable Microwave Coaxial Cable Replacement Cable for SS405, Semflex SM405, Tflex-405, Multibend 405, Multiflex_86 Cable
	RG-401SS (~ 18.0 GHz)	Phase-Stable Microwave Coaxial Cable Replacement Cable for SS401,Tflex-401, Multibend 401 Cable
	RG-405SS SE40 (~ 40.0 GHz)	Phase-Stable Microwave Coaxial Cable Spiral Strip Shield Milimeter -Wave Cable for up to ~ 40.0 GHz
RG Flexible Cable RG Flexible Cable 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 (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 SF-085 75Ω NJ , SF-085 75Ω FEP Jacket ……
	SF-141	SF-141 NJ, SF-141 FEP Jacket , SF-141 PVC Jacket , SF-141 SPC NJ ,SF-141 SPC FEP Jacket, SF-141 SPC PVC Jacket 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) Semi-Flexible Cable (Hand-Formable Cable)	High Performance (VSWR)	SF-141 HTA, SF-113 HTA ……
High Performance (Low Loss) Semi-Flexible Cable (Hand-Formable Cable)	High Performance (Low Loss)	SF-141 LLC, SF-085 LLC ……
Semi-Rigid Cable	SR-034	Silver Plated Copper Clad Steel Wire (SPCW, SCCS), Tin Plated Copper Tube
	SR-047	Silver Plated Copper Clad Steel Wire (SPCW, SCCS) Tin Plated Copper Tube, Bare Copper Tube
	SR-085	Silver Plated Copper Clad Steel Wire (SPCW, SCCS) Silver Plated Copper Wire (SPC) Tin Plated Copper Tube, Tin Plated Aluminum Tube, Bare Copper Tube
	SR-141	Silver Plated Copper Clad Steel Wire (SPCW, SCCS) Silver Plated Copper Wire (SPC) Tin Plated Copper Tube, Tin Plated Aluminum Tube, Bare Copper Tube
	SR-250	Silver Plated Copper Wire (SPC) Tin Plated Copper Tube, Tin Plated Aluminum Tube, Bare Copper Tube

Low Loss

Flexible Microwave Coaxial Cable

(~ 26.5 GHz, ~ 33.0 GHz)

Excellence in VSWR (Return Loss)

MUA210ST

(3.5 mm, SMA, N Type Connector & Assembly)

MUA210ST MUA210SD (~ 26.5 GHz) (~ 33.0 GHz)	Low Density PTFE Dielectric Low Loss Microwave Coaxial Cable 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) HUBER+SUHNER (SUCOFLEX_104)

DESIGN - DEVELOPMENT - MANUFACTURE

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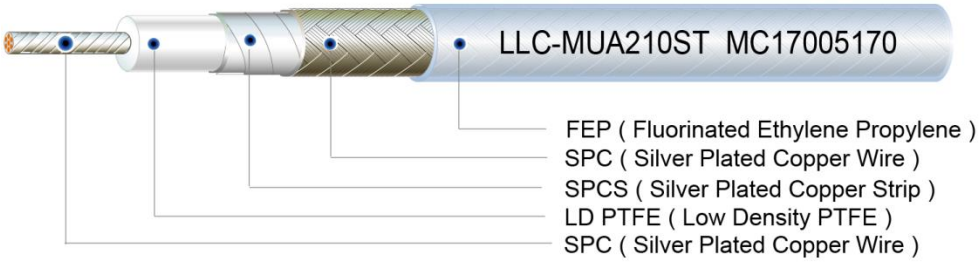
MUA210ST (UFA210B Type)

Low Loss Microwave Coaxial Cable



Construction

Item	Material	Diameter	Remark
Center Conductor	SPC	1.44 mm (0.057 inch)	SPC 19 Stranded Wire
Dielectric	LD PTFE	4.06 mm (0.160 inch)	Low Density PTFE
Inner Shield	SPCS	4.22 mm (0.166 inch)	Silver Plated Copper Strip Taping
Outer Shield	SPC	4.72 mm (0.186 inch)	Round Silver Plated Copper Wire Braiding
Jacket	FEP	5.33 mm (0.210 inch)	Sky Blue

Electrical & Mechanical Data

Impedance	50Ω
Frequency Range	DC-26.5 GHz
Velocity of Propagation	80 %
Capacitance	26.2pf/ft (86.0pf/m)
Operating Temperature	- 55℃ ~ 165℃
Shield Effectiveness	> -100 dB
Power Handling Watts	248 (CW) @ 10 GHz
Flexures	100,000
Min. Bending Radius	0.38 inch (9.65mm)

Attenuation

Frequency	Max. Attenuation	
(GHz)	(dB/m)	(dB/ft)
1.0	0.29	0.09
10.0	0.97	0.30
18.0	1.25	0.38
26.5	1.57	0.48
33.0	1.95	0.59

MUA210ST DJA (UFA210B Type) *Low Loss Microwave Coaxial Cable*

Construction

Item	Material	Diameter	Remark
Center Conductor	SPC	1.44 mm (0.057 inch)	SPC 19 Stranded Wire
Dielectric	LD PTFE	4.06 mm (0.160 inch)	Low Density PTFE
Inner Shield	SPCS	4.22 mm (0.166 inch)	Silver Plated Copper Strip Taping
Outer Shield	SPC	4.72 mm (0.186 inch)	Round Silver Plated Copper Wire Braiding
1st Jacket	FEP	5.33 mm (0.210 inch)	Sky Blue
2nd Jacket	TPU	6.50 mm (0.256 inch)	Thermoplastic Polyurethane
Outer Jacket	Yarn	7.30 mm (0.287 inch)	Braiding

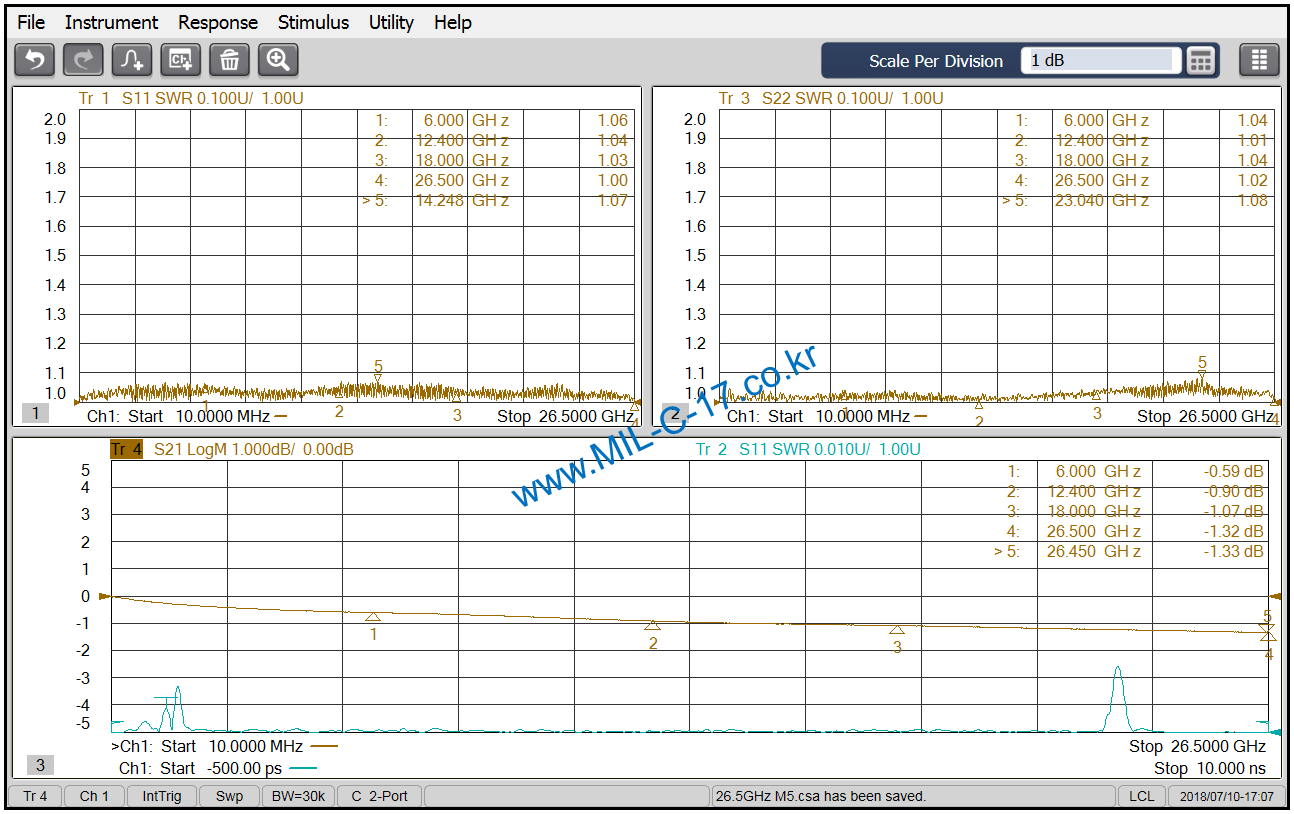
Electrical & Mechanical Data

Impedance	50Ω
Frequency Range	DC-26.5 GHz
Velocity of Propagation	80 %
Capacitance	26.2pf/ft (86.0pf/m)
Operating Temperature	- 55℃ ~ 85℃
Shield Effectiveness	> -100 dB
Power Handling Watts	248 (CW) @ 10 GHz
Flexures	100,000
Min. Bending Radius	0.38 inch (9.65mm)

Attenuation

Frequency	Max. Attenuation	
(GHz)	(dB/m)	(dB/ft)
1.0	0.29	0.09
10.0	0.97	0.30
18.0	1.25	0.38
26.5	1.57	0.48
33.0	1.95	0.59

3.5mm-3.5mm Assembly for up to 26.5 GHz (MUA210ST 1 Meter)



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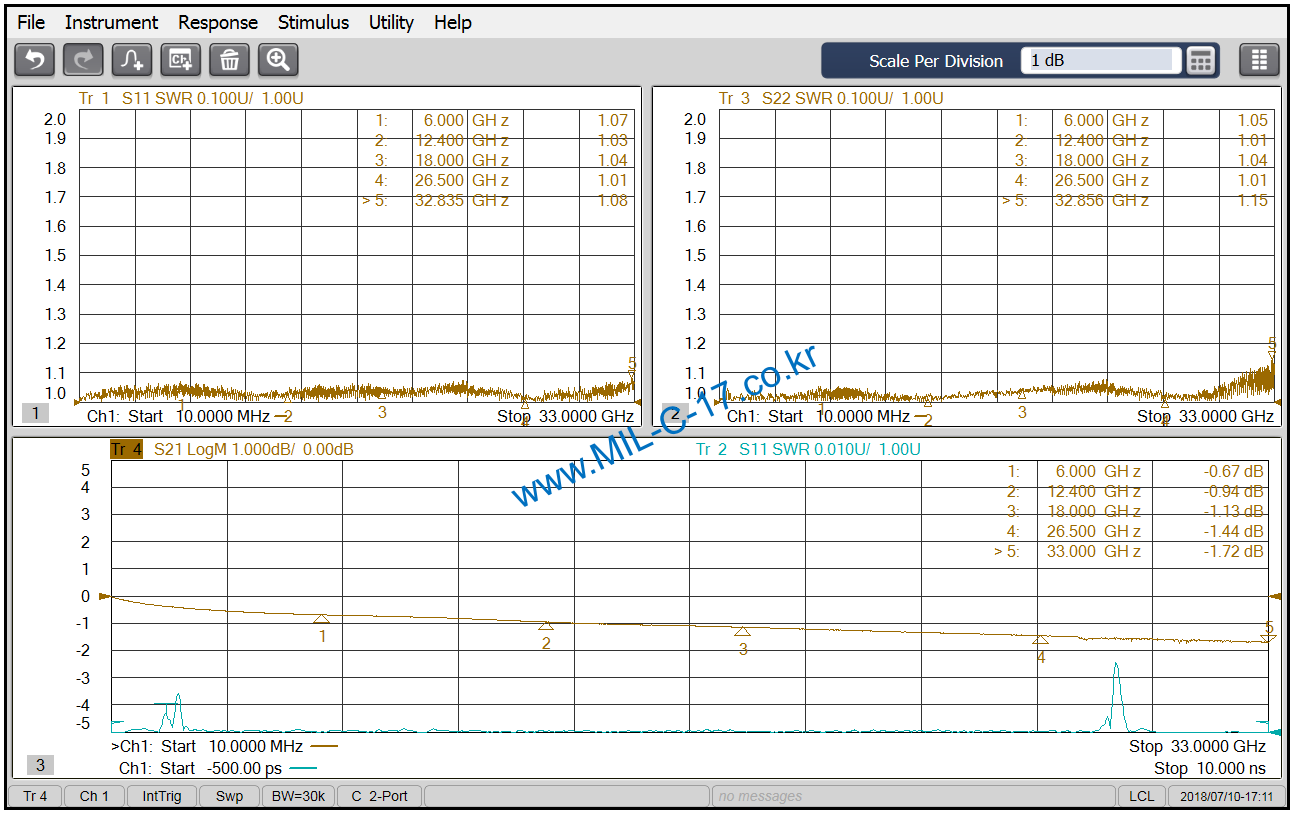
3.5mm-3.5mm Assembly for up to 33.0 GHz
(MUA210ST 1 Meter)



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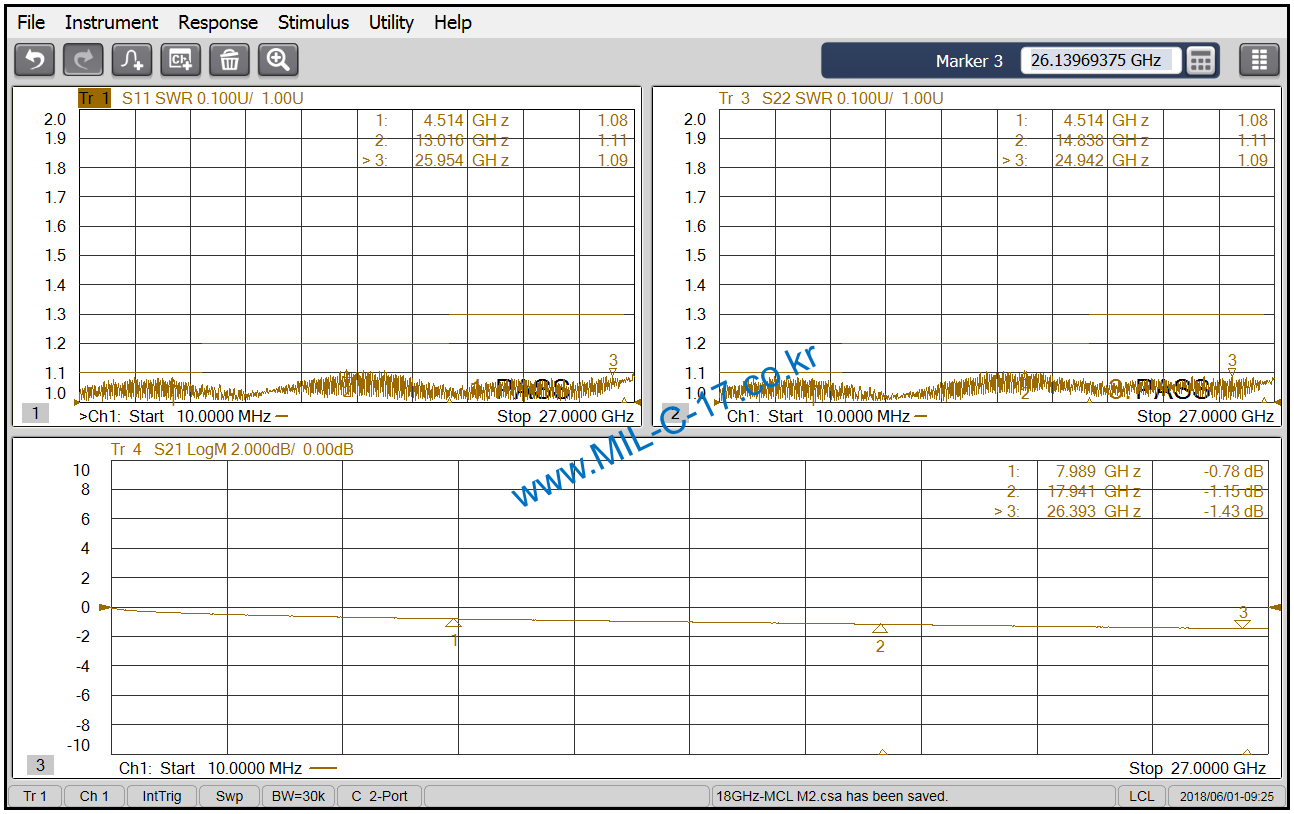
SMA-SMA Assembly for up to 26.5 GHz
(MUA210ST 1 Meter)



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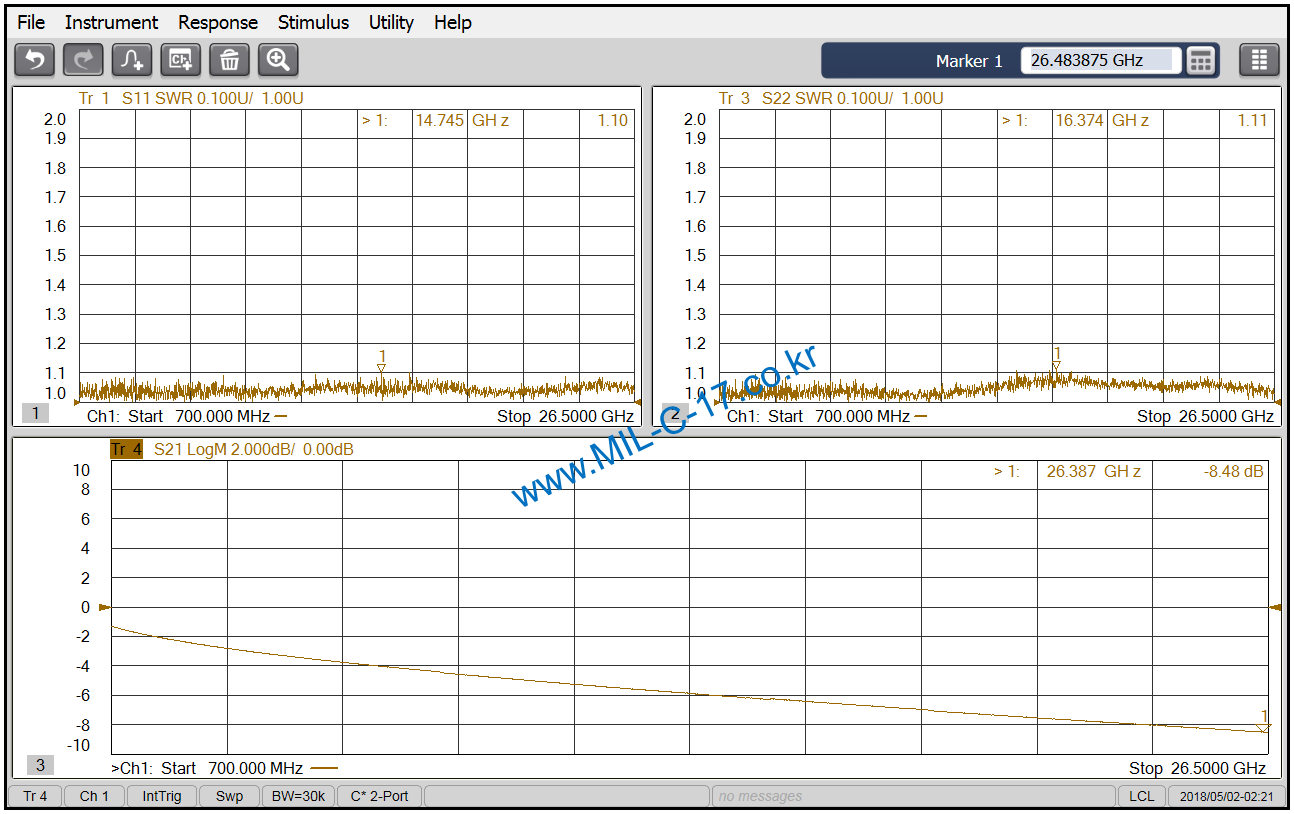
SMA-SMA Assembly for up to 26.5 GHz
(MUA210ST 6 Meter)



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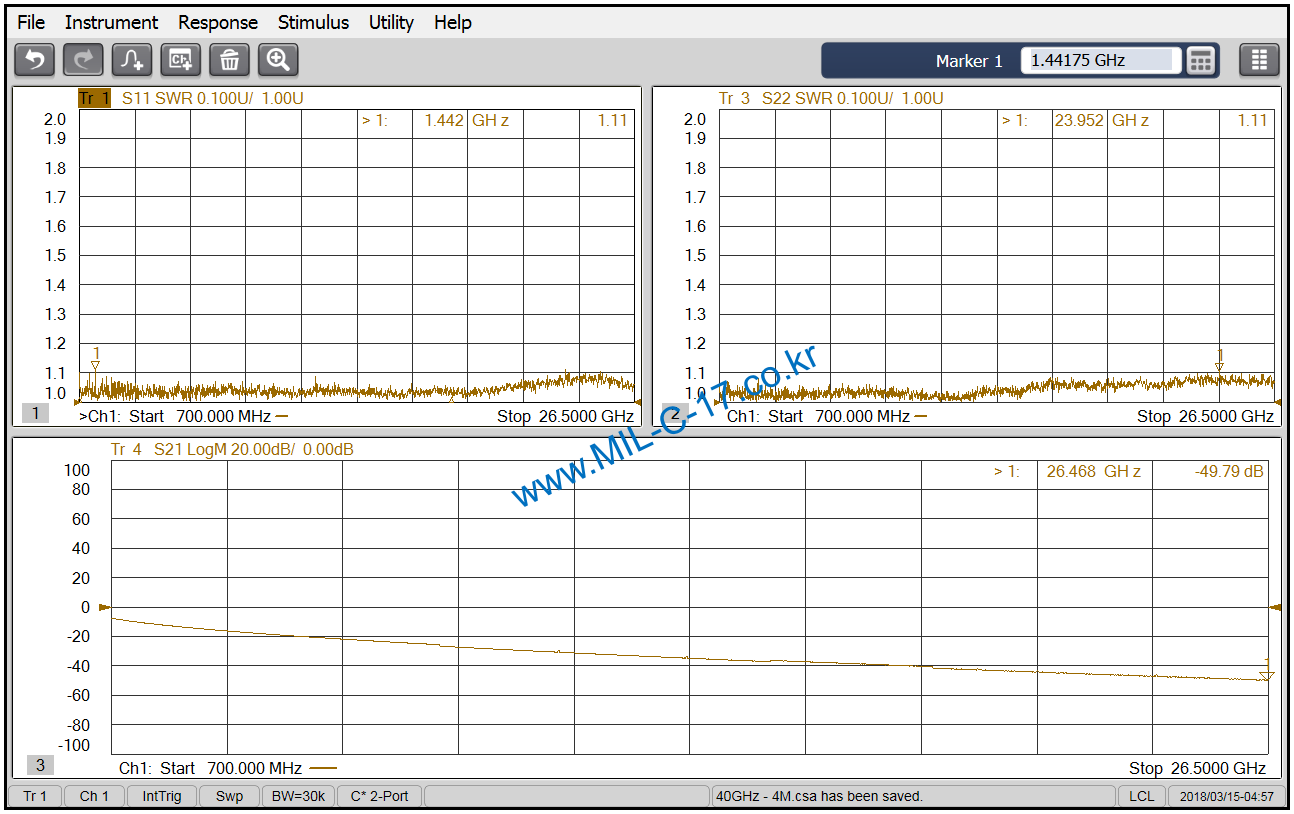
SMA-SMA Assembly for up to 26.5 GHz (MUA210ST 35 Meter)



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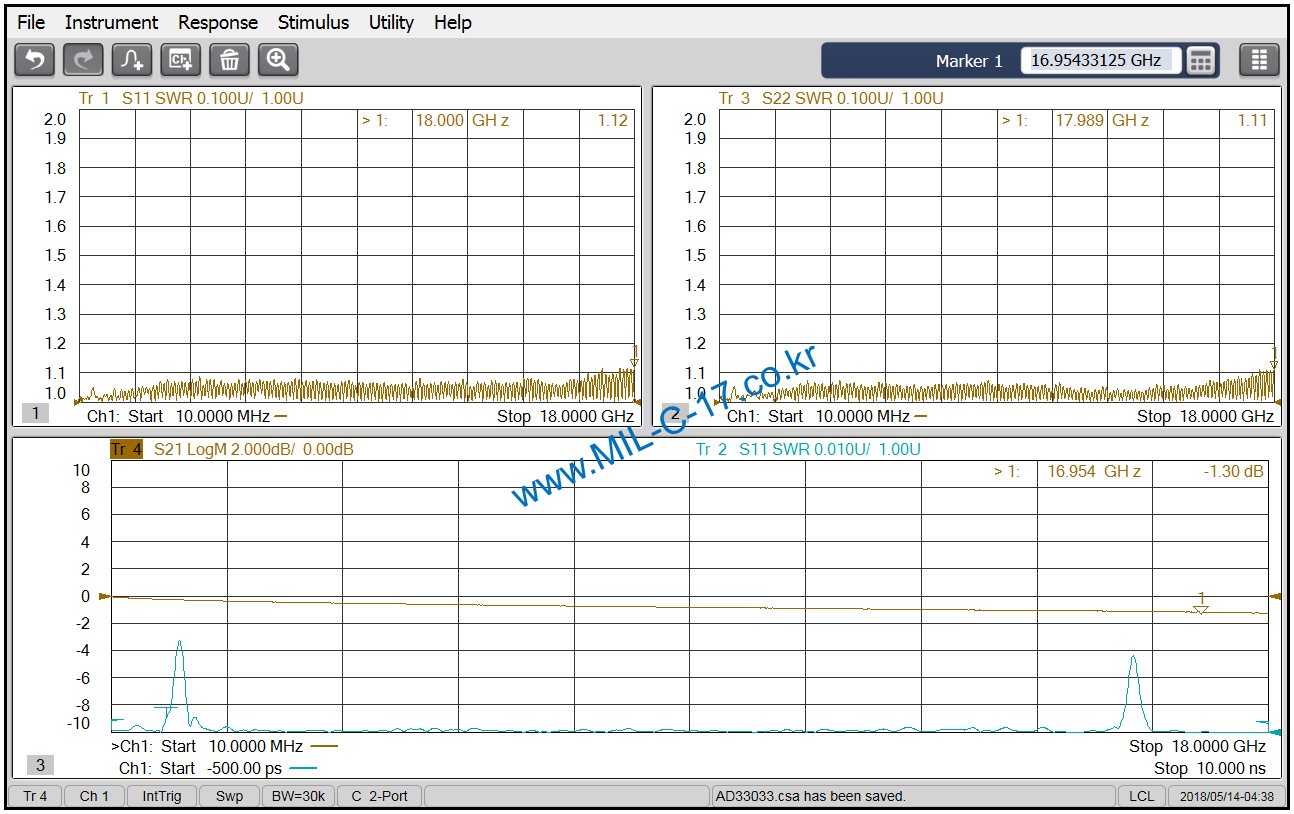
N (M)-N (M) Assembly for up to 18.0 GHz
(MUA210ST 1 Meter)



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Low Loss

Flexible Microwave Coaxial Cable

(~ 26.5 GHz, ~ 33.0 GHz)

Excellence in VSWR (Return Loss)

MUA210SD

(3.5 mm, SMA, N Type Connector & Assembly)

MUA210ST MUA210SD (~ 26.5 GHz) (~ 33.0 GHz)	Low Density PTFE Dielectric Low Loss Microwave Coaxial Cable 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) HUBER+SUHNER (SUCOFLEX_104)

DESIGN - DEVELOPMENT - MANUFACTURE

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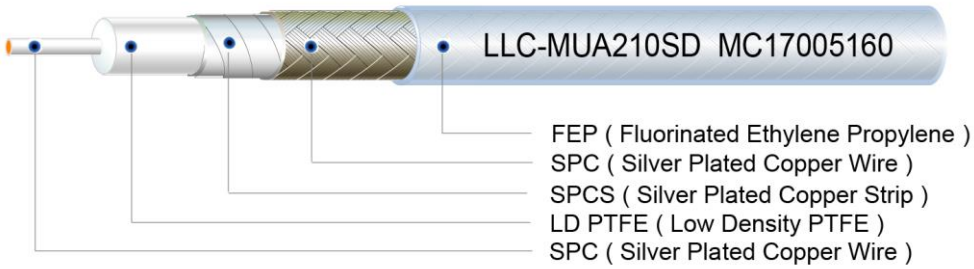
MUA210SD (UFA210A Type)

Low Loss Microwave Coaxial Cable



Construction

Item	Material	Diameter	Remark
Center Conductor	SPC	1.40 mm (0.055 inch)	Solid Silver Plated Copper Wire
Dielectric	LD PTFE	4.06 mm (0.160 inch)	Low Density PTFE
Inner Shield	SPCS	4.22 mm (0.166 inch)	Silver Plated Copper Strip Taping
Outer Shield	SPC	4.72 mm (0.186 inch)	Round Silver Plated Copper Wire Braiding
Jacket	FEP	5.33 mm (0.210 inch)	Sky Blue

Electrical & Mechanical Data

Impedance	50Ω
Frequency Range	DC-26.5 GHz
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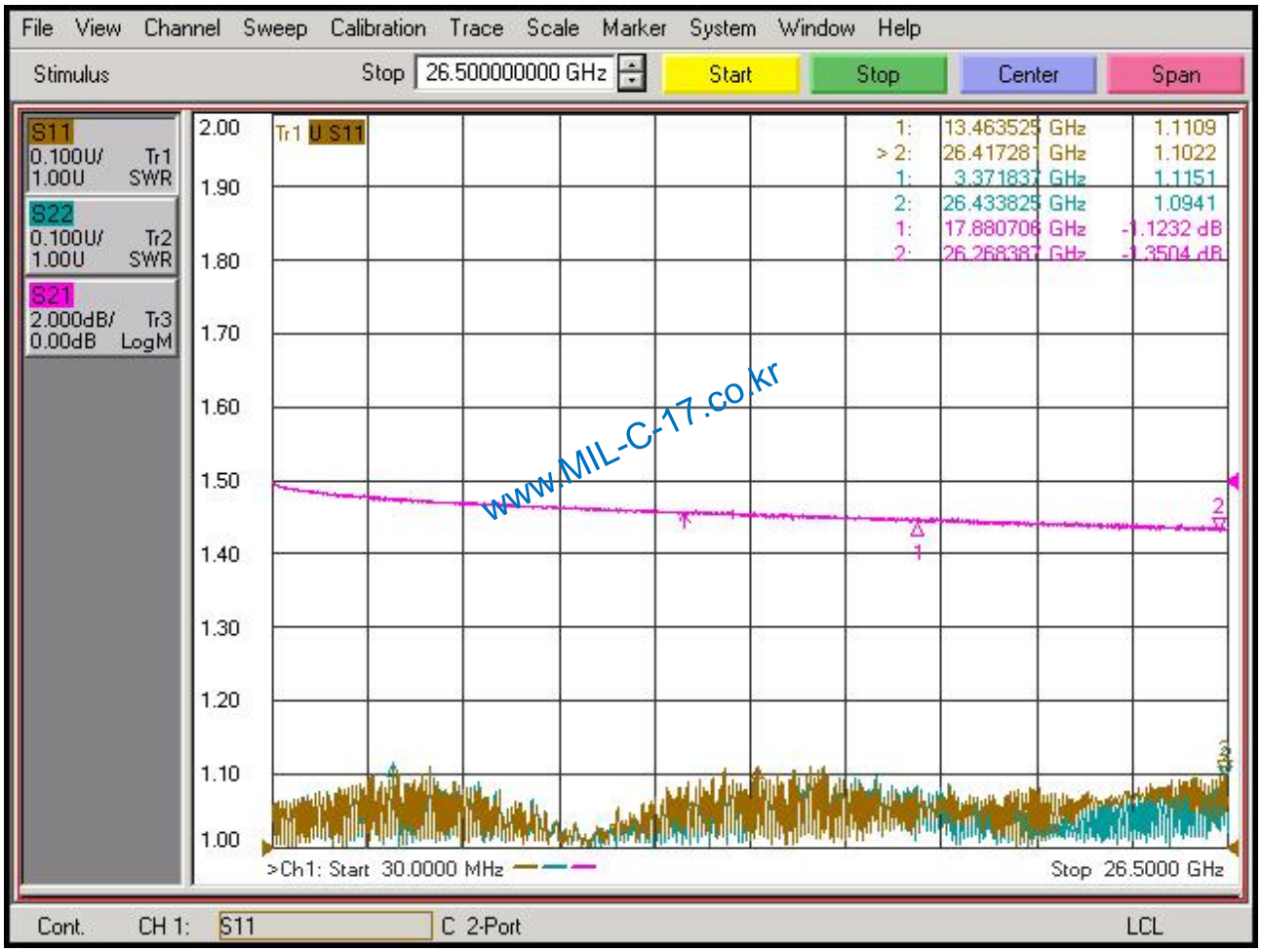
Shield Effectiveness	> -100 dB
Power Handling Watts	248 (CW) @ 10 GHz
Flexures	10,000
Min. Bending Radius	0.38 inch (9.65mm)

Attenuation

Frequency	Max. Attenuation	
(GHz)	(dB/m)	(dB/ft)
1.0	0.26	0.08
10.0	0.94	0.29
18.0	1.18	0.36
26.5	1.47	0.45

SMA-SMA Assembly for up to 26.5 GHz
By MUA210SD 1 Meter Length



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