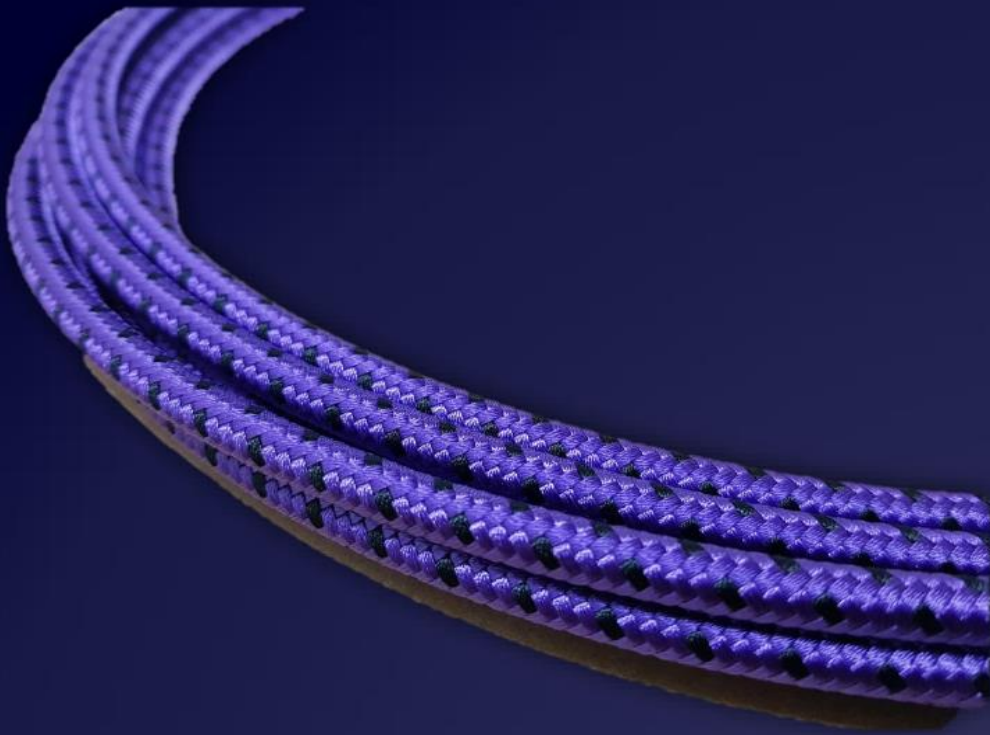


**For up to ~ 110 GHz
Low Loss, MIL-C-17 Standard
RF, Microwave & Millimeter-Wave
Cables, Connector & Assembly**

Low Loss RF, Microwave, Millimeter-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

<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>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>Spiral Strip Shield Microwave Cable (~ 18.0 GHz) (~ 26.5 GHz)</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>Spiral Strip Shield Milimeter -Wave Cable (~ 40.0 GHz) (~ 50.0 GHz)</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>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>High Performance Semi-Flexible Cable (~ 18.0 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 & 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 & Insertion Loss) Semi-Flexible (Hand-Formable) Cable . Equivalent with HUBER+SUHNER SUCOFORM_113_CU_FEP</p>

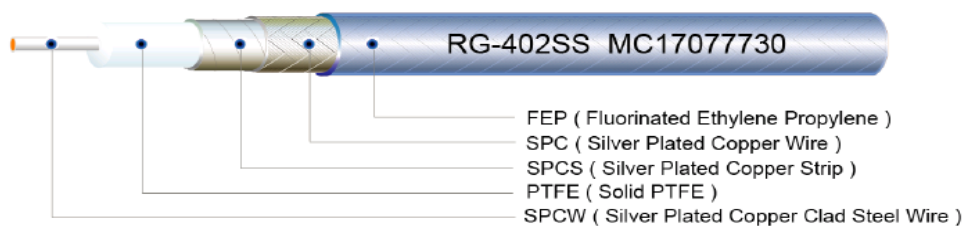
RG Flexible Coaxial Cable (PTFE Dielectric)	MIL-C-17 Standard & Customized	RG-142, RG-142 LSZH, RG-142 PVC, RG-400, RG-400 LSZH, RG-393 PTFE Dielectric, RG-393 FEP Dielectric, RG-393 PFA Dielectric, RG-316S, RG-316D, RG-316S White FEP (Replacement of RG-188), RG-178, RG-179, RG-179 Double, RG-179 LSZH, 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

Low Loss Cable

(26.5 GHz)

(40.0 GHz)

(Spiral Strip Shield)

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

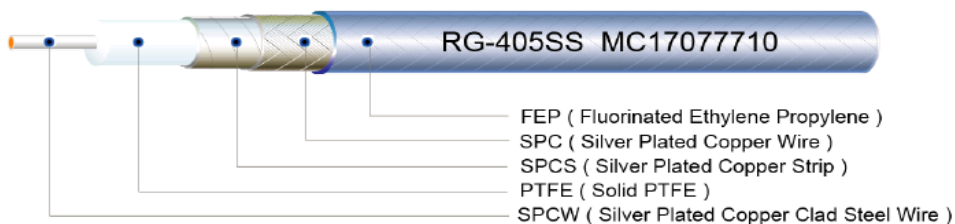
Item	Material	Diameter	Remark
Center Conductor	SPCW	0.94 mm (0.037 inch)	Solid
Dielectric	PTFE	2.97 mm (0.117 inch)	Solid
Inner Shield	SPCS	3.25 mm (0.128 inch)	Wrapping
Outer Shield	SPC	3.58 mm (0.141 inch)	Braid
Jacket	FEP	4.14 mm (0.163 inch)	Blue

Electrical & Mechanical Data

Characteristic Impedance	50 Ω
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

RG-405SS**Spiral Strip Shield Microwave 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 ...**

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 Color

Electrical & Mechanical Data

Characteristic Impedance	50 Ω
Operating Frequency	40.0 GHz
Velocity of Propagation	70 %
Capacitance	96 pF/m
Operating Temperature	- 55°C ~ 200°C
Shield Effectiveness	> 100 dB
Working Voltage	1,500 Vrms (Max.)
Weight	19.1 kg / km
Min. Bending Radius	6 mm (Single)

Attenuation

Frequency (GHz)	Max. Attenuation	
	(dB/m)	(dB/ft)
1.0	0.75	0.229
3.0	1.29	0.393
5.0	1.71	0.521
10.0	2.56	0.780
15.0	3.22	0.981
18.0	3.57	1.088
20.0	3.80	1.158
26.5	4.45	1.356

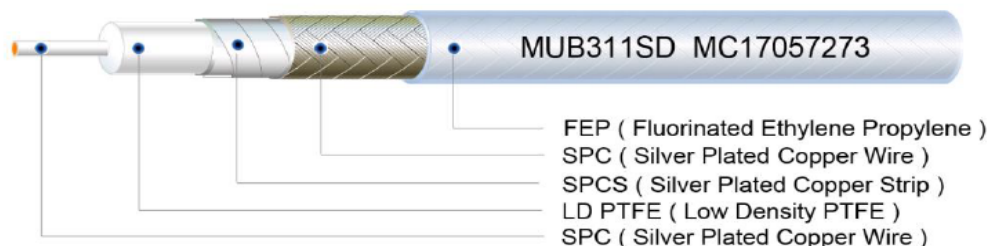
Ultra Low Loss Cable

(18.0 GHz)

(Low Density PTFE)

MUB311SD AT7

Ultra Low Loss Microwave Cable



**. Replacement Cable of Micro-Coax Utiflex UFB311A, Rosenberger RTK081
Huber+Suhner (Sucoflex 106, Sucoflex 118), Harbour LL335
IW 2801, Semflex (LA290, HP305), Times Microwave Systems (HF-290) ...**

Construction

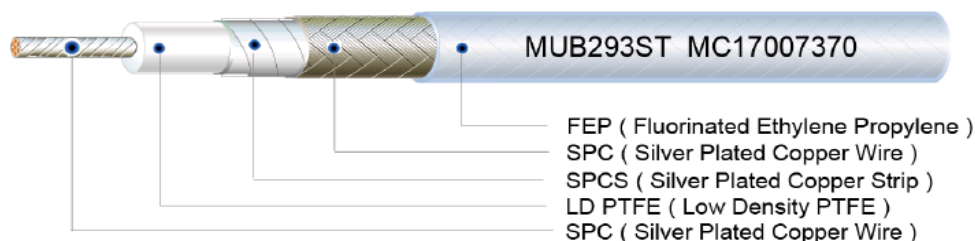
Item	Material	Diameter	Remark
Center Conductor	SPC	2.30 mm (0.091 inch)	Solid
Dielectric	LD PTFE	6.20 mm (0.244 inch)	Low Density PTFE
Inner Shield	SPCS	6.55 mm (0.258 inch)	Silver Plated Copper Strip Taping
Outer Shield	SPC	7.17 mm (0.282 inch)	Round Silver Plated Copper Wire Braiding
Jacket	FEP	7.90 mm (0.311 inch)	Gray, O.E.M Color

Electrical & Mechanical Data

Impedance	50 Ω
Frequency Range	18.0 GHz
Velocity of Propagation	83 %
Capacitance	80.4 pf/m (24.5 pf/ft)
Operating Temperature	- 55°C ~ 165°C
Shield Effectiveness	> 90 dB
Working Voltage (Max.)	3,600 Vrms
Min. Bending Radius (Static)	39.0 mm (1.54 inch)

Attenuation

Frequency (GHz)	Attenuation		Power (W)
	(dB/100m)	(dB/100ft)	
1.0	16.5	5.0	1,813
10.0	49.8	15.2	548
18.0	67.7	20.6	399

MUB293ST AT9**Low Loss Microwave Coaxial Cable****Replacement Cable of Micro-Coax Urtiflex UFB293C****Construction**

Item	Material	Diameter	Remark
Center Conductor	SPC	2.39 mm (0.094 inch)	Stranded SPC Wire
Dielectric	LD PTFE	6.30 mm (0.248 inch)	Low Density PTFE
Inner Shield	SPCS	6.65 mm (0.262 inch)	Silver Plated Copper Strip Taping
Outer Shield	SPC	7.15 mm (0.281 inch)	Round Silver Plated Copper Wire Braiding
Jacket	FEP	7.80 mm (0.307 inch)	Gray, O.E.M Color

Electrical & Mechanical Data

Impedance	50 Ω
Frequency Range	18.0 GHz
Velocity of Propagation	83 %
Capacitance	80.4 pf/m (24.5 pf/ft)
Operating Temperature	- 55°C ~ 165°C
Shield Effectiveness	> 90 dB
Working Voltage (Max.)	3,600 Vrms
Min. Bending Radius (Static)	38.0 mm (1.50 inch)

Attenuation

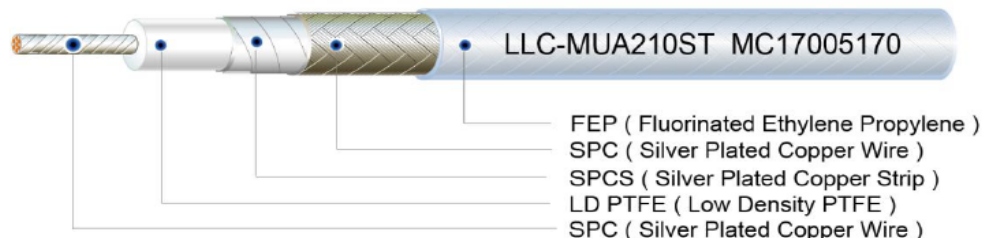
Frequency (GHz)	Attenuation		Power (W)
	(dB/100m)	(dB/ft)	
1.0	18.3	5.6	1,825
10.0	57.7	17.6	569
18.0	77.6	23.7	425

Low Loss Cable

(~ 26.5 GHz)

(~ 33.0 GHz)

(Low Density PTFE)

MUA210ST (UFA210B Type)**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) ...

Construction

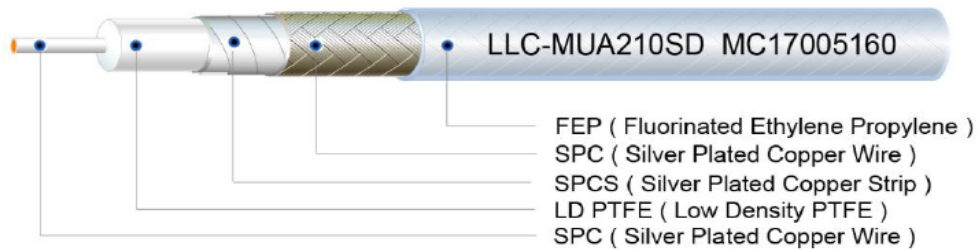
Item	Material	Diameter	Remark
Center Conductor	SPC	1.44 mm (0.057 inch)	SPC 19 Stranded Wire
Dielectric	LD PTFE	4.06 mm (0.160 inch)	Low Density PTFE
Inner Shield	SPCS	4.22 mm (0.166 inch)	Silver Plated Copper Strip Taping
Outer Shield	SPC	4.72 mm (0.186 inch)	Round Silver Plated Copper Wire Braiding
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°C ~ 165°C
Shield Effectiveness	> 100 dB
Power Handling Watts	248 (CW) @ 10 GHz
Flexures	100,000
Min. Bending Radius	0.38 inch (9.65mm)

Attenuation

Frequency (GHz)	Max. Attenuation	
	(dB/m)	(dB/ft)
1.0	0.29	0.09
10.0	0.98	0.30
18.0	1.38	0.42
26.5	1.74	0.53

MUA210SD (UFA210A Type)**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 ...**

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
Velocity of Propagation	80 %
Capacitance	26.2pf/ft (86.0pf/m)
Operating Temperature	- 55°C ~ 165°C
Shield Effectiveness	> 100 dB
Power Handling Watts	286 (CW) @ 10 GHz
Flexures	10,000
Min. Bending Radius	0.38 inch (9.65mm)

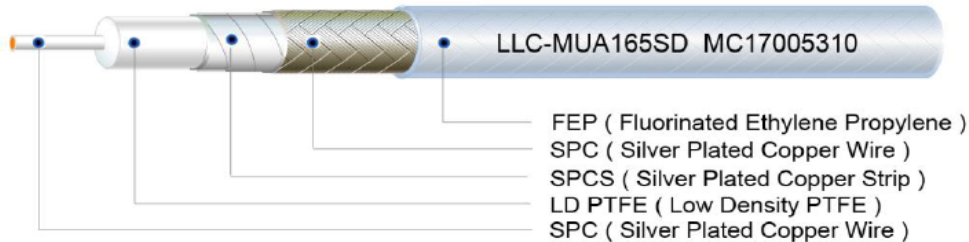
Attenuation

Frequency (GHz)	Max. Attenuation	
	(dB/m)	(dB/ft)
1.0	0.26	0.08
10.0	0.89	0.27
18.0	1.25	0.38
26.5	1.57	0.48

Low Loss Cable

(40.0 GHz)

(Low Density PTFE)

MUA165SD**Low Loss Millimeter-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) ...**

Construction

Item	Material	Diameter	Remark
Center Conductor	SPC	0.94 mm (0.037 inch)	Silver Plated Copper Solid Wire
Dielectric	LD PTFE	2.80 mm (0.110 inch)	Low Density PTFE
Inner Shield	SPCS	3.05 mm (0.120 inch)	Silver Plated Copper Strip Taping
Outer Shield	SPC	3.45 mm (0.136 inch)	Round Silver Plated Copper Wire Braiding
Jacket	FEP	4.20 mm (0.165 inch)	Sky Blue

Electrical & Mechanical Data

Impedance	50Ω
Frequency Range	DC-40.0 GHz
Velocity of Propagation	80 %
Capacitance	26.2pf/ft (86.0pf/m)
Operating Temperature	- 55°C ~ 165°C
Shield Effectiveness	> 100 dB
Flexures	10,000
Min. Bending Radius	10mm (Single)

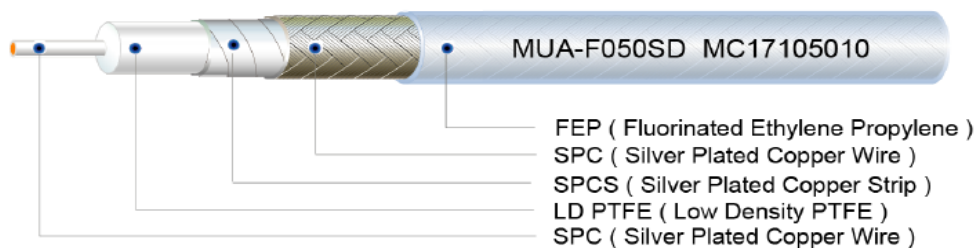
Attenuation

Frequency (GHz)	Max. Attenuation	
	(dB/m)	(dB/ft)
18.0	1.70	0.52
26.5	2.30	0.70
40.0	2.85	0.87

Low Loss Cable

(50.0 GHz)

(Low Density PTFE)

MUA-F050SD**Low Loss Millimeter-wave 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) ...**

Construction

Item	Material	Diameter	Remark
Center Conductor	SPC	0.73 mm (0.029 inch)	Silver Plated Copper Solid Wire
Dielectric	LD PTFE	2.15 mm (0.085 inch)	Low Density PTFE
Inner Shield	SPCS	2.33 mm (0.092 inch)	Silver Plated Copper Strip Taping
Outer Shield	SPC	2.68 mm (0.106 inch)	Round Silver Plated Copper Wire Braiding
Jacket	FEP	3.18 mm (0.125 inch)	Sky Blue

Electrical & Mechanical Data

Impedance	50Ω
Frequency Range	DC-50.0 GHz
Velocity of Propagation	80 %
Capacitance	26.2pf/ft (86.0pf/m)
Operating Temperature	- 55°C ~ 165°C
Shield Effectiveness	> 100 dB
Flexures	10,000
Min. Bending Radius	5.08mm (Single)

Attenuation

Frequency (GHz)	Attenuation (dB/m)	Attenuation (dB/ft)
1.0	0.46	0.14
18.0	2.17	0.66
26.5	2.69	0.82
40.0	3.41	1.04
50.0	3.90	1.19

Flexible Cable

(RG)

RG-142**Flexible Coaxial Cable - Double Braid****Construction**

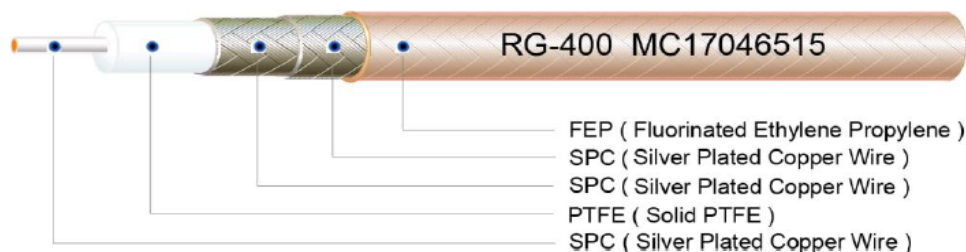
Item	Material	Diameter	Remark
Center Conductor	SPCW	0.94 mm (0.037 inch)	Solid
Dielectric	PTFE	2.95 mm (0.116 inch)	Solid
Inner Shield	SPC	3.60 mm (0.142 inch)	Braid
Outer Shield	SPC	4.20 mm (0.165 inch)	Braid
Jacket	FEP	4.95 mm (0.195 inch)	Light Brown

Electrical & Mechanical Data

Characteristic Impedance	50 Ω
Operating Frequency	6 GHz (Max.)
Velocity of Propagation	69.5 %
Capacitance	95 pF/m
Operating Temperature	- 55°C ~ 200°C
Working Voltage	2,500 Vrms (Max.)
Weight	64.0 kg / km
Min. Bending Radius	30 mm (Single)

Attenuation

Frequency (GHz)	Attenuation	
	(dB/m)	(dB/ft)
0.1	0.13	0.040
0.5	0.31	0.094
1.0	0.45	0.137
3.0	0.87	0.265
5.0	1.20	0.366
6.0	1.36	0.415

RG-400**Flexible Coaxial Cable - Double Braid****Construction**

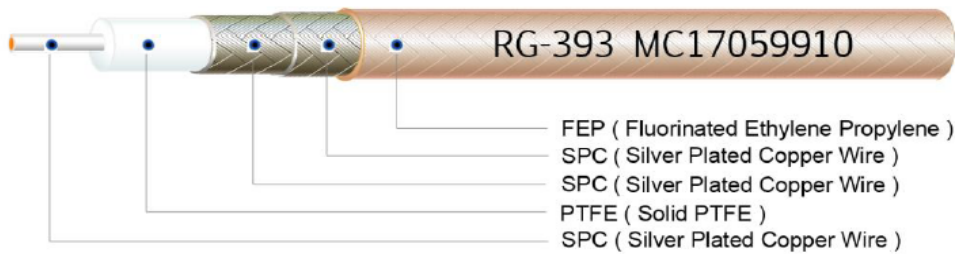
Item	Material	Diameter	Remark
Center Conductor	SPC	1.00 mm (0.039 inch)	Stranded (19/0.203)
Dielectric	PTFE	2.95 mm (0.116 inch)	Solid
Inner Shield	SPC	3.60 mm (0.142 inch)	Braid
Outer Shield	SPC	4.20 mm (0.165 inch)	Braid
Jacket	FEP	4.95 mm (0.195 inch)	Light Brown

Electrical & Mechanical Data

Characteristic Impedance	50 Ω
Operating Frequency	12.4 GHz
Velocity of Propagation	70.0 %
Capacitance	94 pF/m
Operating Temperature	- 55°C ~ 200°C
Working Voltage	1,700 Vrms (Max.)
Min. Bending Radius	30 mm (Single)

Attenuation

Frequency (GHz)	Attenuation (dB/m)	Attenuation (dB/ft)
0.3	0.26	0.08
1.2	0.56	0.17
2.1	0.78	0.24
3.0	1.00	0.31
4.2	1.21	0.37
5.1	1.37	0.42
6.0	1.53	0.47

RG-393**Flexible Coaxial Cable - Double Braid****Construction**

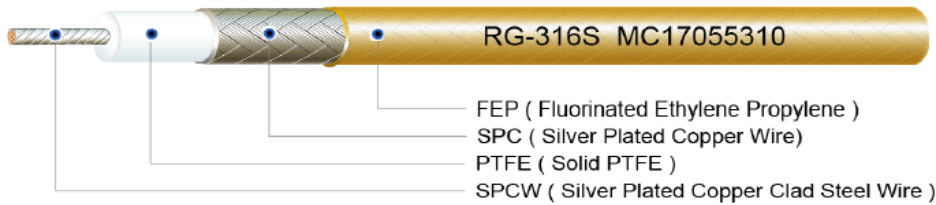
Item	Material	Diameter	Remark
Center Conductor	SPC	2.40 mm (0.094 inch)	Stranded (7/0.79)
Dielectric	PTFE	7.24 mm (0.285 inch)	Solid
Inner Shield	SPC	8.00 mm (0.315 inch)	Braid
Outer Shield	SPC	8.75 mm (0.344 inch)	Braid
Jacket	FEP	9.90 mm (0.390 inch)	Light Brown

Electrical & Mechanical Data

Characteristic Impedance	50 Ω
Operating Frequency	10 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	95.9 pF/M
Operating Temperature	- 55°C ~ 200°C
Working Voltage	7,500 Vrms (Max.)
Weight	230 kg / km
Min. Bending Radius	Static 60mm Repeated 100mm (Max. 50 Bendings) Dynamic 150mm

Attenuation

Frequency (GHz)	Max. Attenuation	
	(dB/m)	(dB/ft)
0.05	0.06	0.018
0.10	0.08	0.024
0.40	0.16	0.049
1.00	0.29	0.088
3.00	0.59	0.180
6.00	1.19	0.363

RG-316S**Flexible Coaxial Cable****Construction**

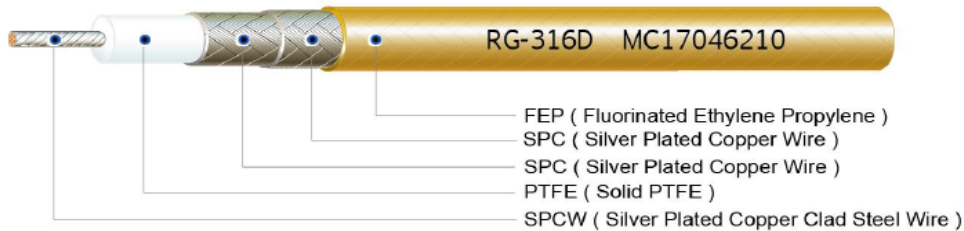
Item	Material	Diameter	Remark
Center Conductor	SPCW	0.51 mm (0.020 inch)	Stranded (7/0.17)
Dielectric	PTFE	1.52 mm (0.060 inch)	Solid
Shield	SPC	2.00 mm (0.079 inch)	Braid
Jacket	FEP	2.50 mm (0.098 inch)	Light Brown

Electrical & Mechanical Data

Characteristic Impedance	50 Ω
Operating Frequency	3 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	105 pF/m
Operating Temperature	- 55°C ~ 200°C
Working Voltage	900 Vrms (Max.)
Weight	16 kg / km
Min. Bending Radius	15 mm (Single)

Attenuation

Frequency (GHz)	Max. Attenuation	
	(dB/m)	(dB/ft)
0.10	0.25	0.076
0.20	0.36	0.110
0.40	0.53	0.162
0.50	0.59	0.180
1.00	0.87	0.265
2.00	1.45	0.442
3.00	1.78	0.543

RG-316D**Flexible Coaxial Cable - Double Braid****Construction**

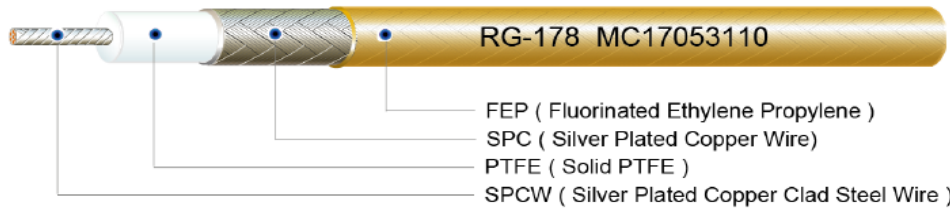
Item	Material	Diameter	Remark
Center Conductor	SPCW	0.51 mm (0.020 inch)	Stranded (7/0.17)
Dielectric	PTFE	1.52 mm (0.060 inch)	Solid
Shield	SPC	2.00 mm (0.079 inch)	Braid
Shield	SPC	2.40 mm (0.094 inch)	Braid
Jacket	FEP	2.90 mm (0.114 inch)	Light Brown

Electrical & Mechanical Data

Characteristic Impedance	50 Ω
Operating Frequency	12.4 GHz
Velocity of Propagation	70 %
Capacitance	96.5 pF/m
Operating Temperature	- 55°C ~ 200°C
Working Voltage	1,200 Vrms (Max.)
Weight	23 kg / km
Min. Bending Radius	15 mm (Single)

Attenuation

Frequency (GHz)	Max. Attenuation	
	(dB/m)	(dB/ft)
0.05	0.17	0.052
0.50	0.76	0.232
1.00	1.12	0.341
2.00	1.63	0.497
2.40	1.87	0.570
3.00	1.94	0.591
6.00	2.95	0.899

RG-178**Flexible Coaxial Cable****Construction**

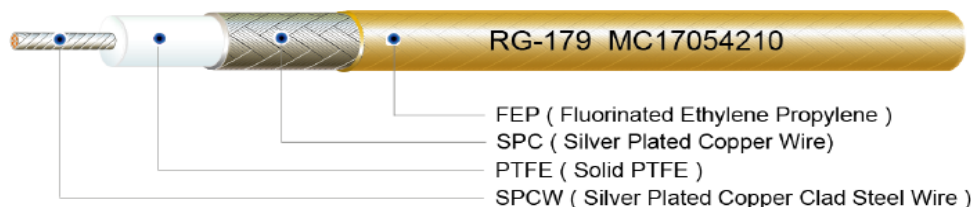
Item	Material	Diameter	Remark
Center Conductor	SPCW	0.31 mm (0.012 inch)	Stranded (7/0.102)
Dielectric	PTFE	0.84 mm (0.033 inch)	Solid
Shield	SPC	1.33 mm (0.052 inch)	Braid
Jacket	FEP	1.80 mm (0.071 inch)	Light Brown

Electrical & Mechanical Data

Characteristic Impedance	50 Ω
Operating Frequency	3 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	95 pF/m
Operating Temperature	- 55°C ~ 200°C
Working Voltage	900 Vrms (Max.)
Weight	8.4 kg / km
Min. Bending Radius	10 mm (Single)

Attenuation

Frequency (GHz)	Max. Attenuation	
	(dB/m)	(dB/ft)
0.10	0.46	0.140
0.20	0.66	0.201
0.40	0.97	0.296
0.50	1.10	0.335
1.00	1.64	0.500
2.00	2.38	0.725
3.00	2.99	0.911

RG-179**Flexible Coaxial Cable****Construction**

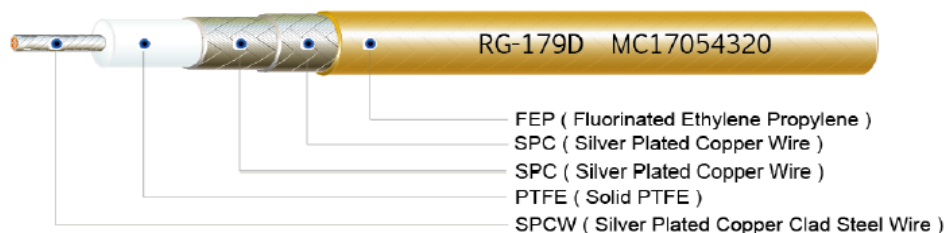
Item	Material	Diameter	Remark
Center Conductor	SPCW	0.31 mm (0.012 inch)	Stranded (7/0.102)
Dielectric	PTFE	1.60 mm (0.063 inch)	Solid
Shield	SPC	2.00 mm (0.079 inch)	Braid
Jacket	FEP	2.54 mm (0.100 inch)	Light Brown

Electrical & Mechanical Data

Characteristic Impedance	75 Ω
Operating Frequency	3 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	64 pF/m
Operating Temperature	- 55°C ~ 200°C
Working Voltage	900 Vrms (Max.)
Weight	14.8 kg / km
Min. Bending Radius	15 mm (Single)

Attenuation

Frequency (GHz)	Attenuation	
	(dB/m)	(dB/ft)
0.05	0.19	0.058
0.10	0.27	0.082
0.40	0.56	0.171
0.50	0.63	0.192
0.80	0.81	0.247
1.00	0.92	0.280
2.00	1.42	0.433
2.50	1.63	0.497

RG-179D**Flexible Coaxial Cable****Construction**

Item	Material	Diameter	Remark
Center Conductor	SPCW	0.31 mm (0.012 inch)	Stranded (7/0.102)
Dielectric	PTFE	1.60 mm (0.063 inch)	Solid
Inner Shield	SPC	2.00 mm (0.079 inch)	Braid
Outer Shield	SPC	2.50mm (0.098 inch)	Braid
Jacket	FEP	3.00 mm (0.120 inch)	Light Brown

Electrical & Mechanical Data

Characteristic Impedance	75 Ω
Operating Frequency	3 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	64 pF/m
Operating Temperature	- 55°C ~ 200°C
Working Voltage	900 Vrms (Max.)
Weight	23.0 kg / km
Min. Bending Radius	15 mm (Single)

Attenuation

Frequency (GHz)	Attenuation	
	(dB/m)	(dB/ft)
0.05	0.19	0.058
0.10	0.27	0.082
0.40	0.56	0.171
0.50	0.63	0.192
0.80	0.81	0.247
1.00	0.92	0.280
2.00	1.42	0.433
2.50	1.63	0.497

Semi-Flexible Cable

(SF)

SF-085 NJ**Hand Formable Coaxial Cable**

TC (Tin Plated Copper Braid & Tin Soaked)
 PTFE (Solid PTFE)
 SPCW (Silver Plated Copper Clad Steel Wire)

Construction

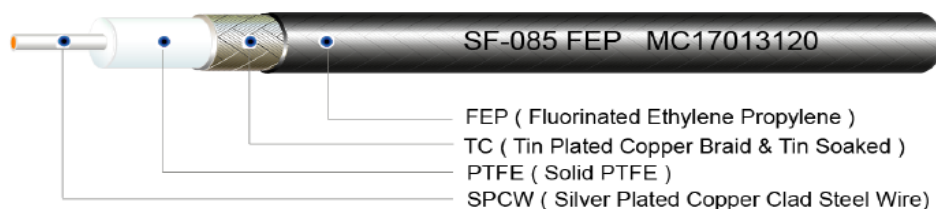
Item	Material	Diameter	Remark
Center Conductor	SPCW	0.53 mm (0.021 inch)	Solid
Dielectric	PTFE	1.65 mm (0.065 inch)	Solid
Outer Conductor	Tin Plated Copper Braid & Tin Soaked	2.15 mm (0.085 inch)	100% Coverage

Electrical & Mechanical Data

Characteristic Impedance	50 Ω
Operating Frequency	20 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	95 pF/m
Operating Temperature	- 65°C ~ 165°C
Shield Effectiveness	> 110 dB
Working Voltage	1,500 Vrms (Max.)
Weight	15.8 kg / km
Min. Bending Radius	6 mm (Single)

Attenuation

Frequency (GHz)	Max. Attenuation	
	(dB/m)	(dB/ft)
0.5	0.49	0.149
1	0.72	0.219
5	1.64	0.500
10	2.49	0.759
18	3.49	1.064
20	4.27	1.301

SF-085 FEP Jacket**Hand Formable Coaxial Cable****Construction**

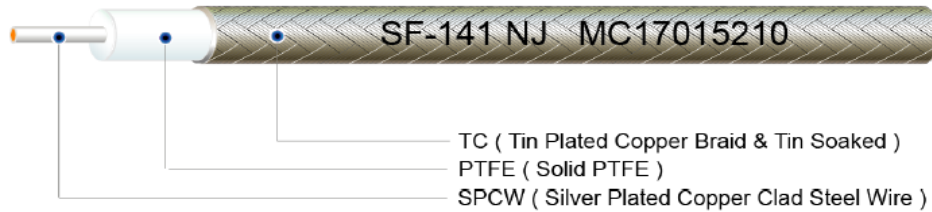
Item	Material	Diameter	Remark
Center Conductor	SPCW	0.53 mm (0.021 inch)	Solid
Dielectric	PTFE	1.65 mm (0.065 inch)	Solid
Outer Conductor	Tin Plated Copper Braid & Tin Soaked	2.15 mm (0.085 inch)	100% Coverage
Jacket	FEP	2.70 mm (0.106 inch)	Blue

Electrical & Mechanical Data

Characteristic Impedance	50 Ω
Operating Frequency	20 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	95 pF/m
Operating Temperature	- 65°C ~ 165°C
Shield Effectiveness	> 110 dB
Working Voltage	1,500 Vrms (Max.)
Weight	19.0 kg / km
Min. Bending Radius	6 mm (Single)

Attenuation

Frequency (GHz)	Max. Attenuation	
	(dB/m)	(dB/ft)
0.5	0.49	0.149
1	0.72	0.219
5	1.64	0.500
10	2.49	0.759
18	3.49	1.064
20	4.27	1.301

SF-141 NJ**Hand Formable Coaxial Cable**

TC (Tin Plated Copper Braid & Tin Soaked)
 PTFE (Solid PTFE)
 SPCW (Silver Plated Copper Clad Steel Wire)

Construction

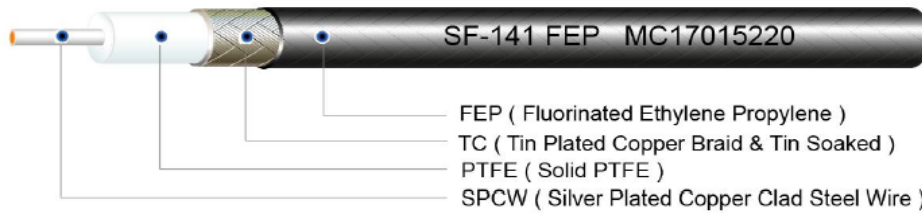
Item	Material	Diameter	Remark
Center Conductor	SPCW	0.94 mm (0.037 inch)	Solid
Dielectric	PTFE	2.95 mm (0.116 inch)	Solid
Outer Conductor	Tin Plated Copper Braid & Tin Soaked	3.58 mm (0.141 inch)	100% Coverage

Electrical & Mechanical Data

Characteristic Impedance	50 Ω
Operating Frequency	20 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	96.4 pF/m
Operating Temperature	- 40°C ~ 165°C
Shield Effectiveness	> 110 dB
Working Voltage	1.900 Vrms (Max.)
Weight	38.0 kg / km
Min. Bending Radius	8 mm (Single)

Attenuation

Frequency (GHz)	Max. Attenuation	
	(dB/m)	(dB/ft)
0.5	0.26	0.079
1	0.39	0.119
3	0.69	0.210
5	0.95	0.290
10	1.48	0.451
15	1.97	0.600
18	2.23	0.680

SF-141 FEP Jacket**Hand Formable Coaxial Cable****Construction**

Item	Material	Diameter	Remark
Center Conductor	SPCW	0.94 mm (0.037 inch)	Solid
Dielectric	PTFE	2.95 mm (0.116 inch)	Solid
Outer Conductor	Tin Plated Copper Braid & Tin Soaked	3.58 mm (0.141 inch)	100% Coverage
Jacket	FEP	4.10 mm (0.161 inch)	Blue

Electrical & Mechanical Data

Characteristic Impedance	50 Ω
Operating Frequency	20 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	96.4 pF/m
Operating Temperature	- 40°C ~ 165°C
Shield Effectiveness	> 110 dB
Working Voltage	1.900 Vrms (Max.)
Weight	47.0 kg / km
Min. Bending Radius	8 mm (Single)

Attenuation

Frequency (GHz)	Attenuation	
	(dB/m)	(dB/ft)
0.5	0.26	0.079
1	0.39	0.119
3	0.69	0.210
5	0.95	0.290
10	1.48	0.451
15	1.97	0.600
18	2.23	0.680

SF-250 NJ**Hand Formable Coaxial Cable**

TC (Tin Plated Copper Braid & Tin Soaked)

PTFE (Solid PTFE)

SPC (Silver Plated Copper Wire)

Construction

Item	Material	Diameter	Remark
Center Conductor	SPC	1.63 mm (0.064 inch)	Solid
Dielectric	PTFE	5.31 mm (0.209 inch)	Solid
Outer Conductor	Tin Plated Copper Braid & Tin Soaked	6.35 mm (0.250 inch)	100% Coverage

Electrical & Mechanical Data

Characteristic Impedance	50 Ω
Operating Frequency	18 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	96.4 pF/m
Operating Temperature	- 65°C ~ 165°C
Shield Effectiveness	> 110 dB
Working Voltage	3500 Vrms (Max.)
Weight	114.0 kg / km
Min. Bending Radius	30 mm (Single)

Attenuation

Frequency (GHz)	Max. Attenuation	
	(dB/m)	(dB/ft)
0.4	0.15	0.046
1	0.25	0.076
3	0.52	0.158
10	1.08	0.329
15	1.30	0.396
18	1.55	0.472

SF-250 SPC FEP Jacket**Hand Formable Coaxial Cable****Construction**

Item	Material	Diameter	Remark
Center Conductor	SPC	1.63 mm (0.064 inch)	Solid
Dielectric	PTFE	5.31 mm (0.209 inch)	Solid
Outer Conductor	Tin Plated Copper Braid & Tin Soaked	6.35 mm (0.250 inch)	100% Coverage
Jacket	FEP	6.80 mm (0.268 inch)	Blue

Electrical & Mechanical Data

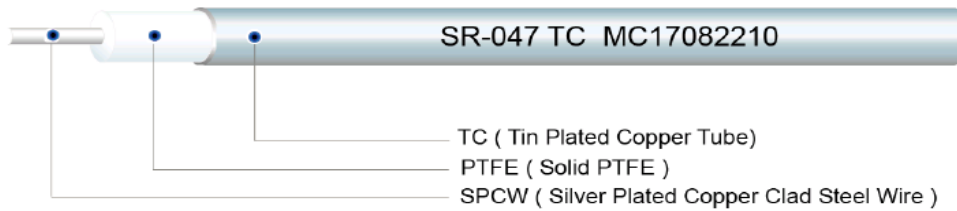
Characteristic Impedance	50 Ω
Operating Frequency	18 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	96.4 pF/m
Operating Temperature	- 65°C ~ 165°C
Shield Effectiveness	> 110 dB
Working Voltage	3500 Vrms (Max.)
Weight	130.0 kg / km
Min. Bending Radius	30 mm (Single)

Attenuation

Frequency (GHz)	Max. Attenuation	
	(dB/m)	(dB/ft)
0.4	0.15	0.046
1	0.25	0.076
3	0.52	0.158
10	1.08	0.329
15	1.30	0.396
18	1.55	0.472

Semi-Rigid Cable

(SR)

SR-047TC (UT-047TP Type)**Semi-Rigid Coaxial Cable****Construction**

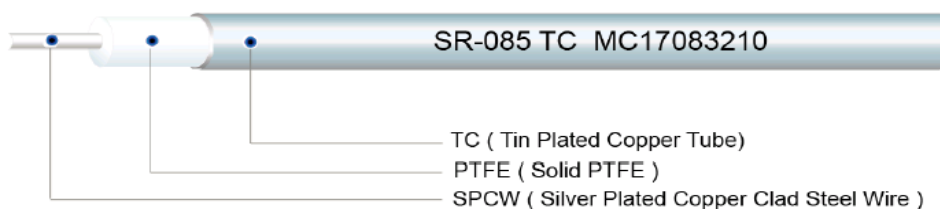
Item	Material	Diameter	Remark
Center Conductor	SPCW	0.287 mm (0.0113 inch)	Solid
Dielectric	PTFE	0.94 mm (0.037 inch)	Solid
Outer Conductor	TC	1.19 mm (0.047 inch)	100% Coverage

Electrical & Mechanical Data

Characteristic Impedance	50 Ω
Operating Frequency	40 GHz (Max.)
Velocity of Propagation	69.5 %
Capacitance	29.0 pF/ft (95.1 pF/M)
Operating Temperature	- 40°C ~ 125°C
Shield Effectiveness	> 110 dB
Working Voltage	1,000 Vrms (Max.)
Weight	5.7 kg / km
Min. Bending Radius	1.91 mm (0.08 inch)

Attenuation

Frequency (GHz)	Nom. Attenuation		Max. Power (W)
	(dB/100m)	(dB/100ft)	
0.5	78.7	24.0	67.5
1.0	112.2	34.2	47.4
5.0	258.5	78.8	20.7
10.0	373.4	113.8	14.4
18.0	513.5	156.5	10.5
26.5	635.8	193.8	8.5
40.0	801.2	244.2	6.8

SR-085TC (UT-085TP Type)**Semi-Rigid Coaxial Cable****Construction**

Item	Material	Diameter	Remark
Center Conductor	SPCW	0.51 mm (0.0201 inch)	Solid
Dielectric	PTFE	1.68 mm (0.066 inch)	Solid
Outer Conductor	TC	2.19 mm (0.086 inch)	100% Coverage

Electrical & Mechanical Data

Characteristic Impedance	50 Ω
Operating Frequency	20 GHz (Max.)
Velocity of Propagation	69.5 %
Capacitance	29.0 pF/ft (95.1 pF/M)
Operating Temperature	- 40°C ~ 125°C
Shield Effectiveness	> 110 dB
Working Voltage	1,500 Vrms (Max.)
Weight	20.2 kg / km
Min. Bending Radius	3.2 mm (0.13 inch)

Attenuation

Frequency (GHz)	Attenuation	
	(dB/m)	(dB/ft)
0.5	0.49	0.149
1	0.72	0.219
5	1.64	0.500
10	2.62	0.799
20	4.27	1.301

SR-141TC (UT-141TP Type)

Semi-Rigid Coaxial Cable



Construction

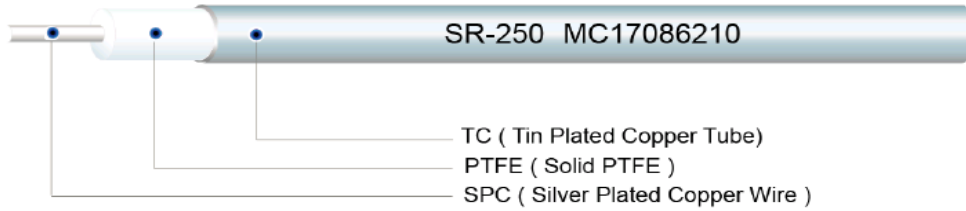
Item	Material	Diameter	Remark
Center Conductor	SPCW	0.92 mm (0.036 inch)	Solid
Dielectric	PTFE	2.98 mm (0.117 inch)	Solid
Outer Conductor	TC	3.58 mm (0.141 inch)	100% Coverage

Electrical & Mechanical Data

Characteristic Impedance	50 Ω
Operating Frequency	20 GHz (Max.)
Velocity of Propagation	69.5 %
Capacitance	29.0 pF/ft (95.1 pF/M)
Operating Temperature	- 40°C ~ 125°C
Shield Effectiveness	> 110 dB
Working Voltage	1,900 Vrms (Max.)
Weight	46.7 kg / km
Min. Bending Radius	6.35 mm (0.25 inch)

Attenuation

Frequency (GHz)	Attenuation (dB/m)	Attenuation (dB/ft)
0.5	0.26	0.079
1	0.39	0.119
3	0.69	0.210
5	0.95	0.290
10	1.48	0.451
20	2.30	0.701

SR-250SPCTC (UT-250TP)**Semi-Rigid Coaxial Cable****Construction**

Item	Material	Diameter	Remark
Center Conductor	SPC	1.65 mm (0.065 inch)	Solid
Dielectric	PTFE	5.31 mm (0.209 inch)	Solid
Outer Conductor	TC	6.35 mm (0.250 inch)	100% Coverage

Electrical & Mechanical Data

Characteristic Impedance	50 Ω
Operating Frequency	18 GHz (Max.)
Velocity of Propagation	69.5 %
Capacitance	29.0 pF/ft (95.1 pF/M)
Operating Temperature	- 40°C ~ 125°C
Shield Effectiveness	> 110 dB
Working Voltage	3,000 Vrms (Max.)
Weight	147 kg / km
Min. Bending Radius	9.53 mm (0.38 inch)

Attenuation

Frequency (GHz)	Attenuation	
	(dB/m)	(dB/ft)
0.4	0.15	0.046
1	0.25	0.076
3	0.39	0.119
10	1.08	0.329
18	1.57	0.479