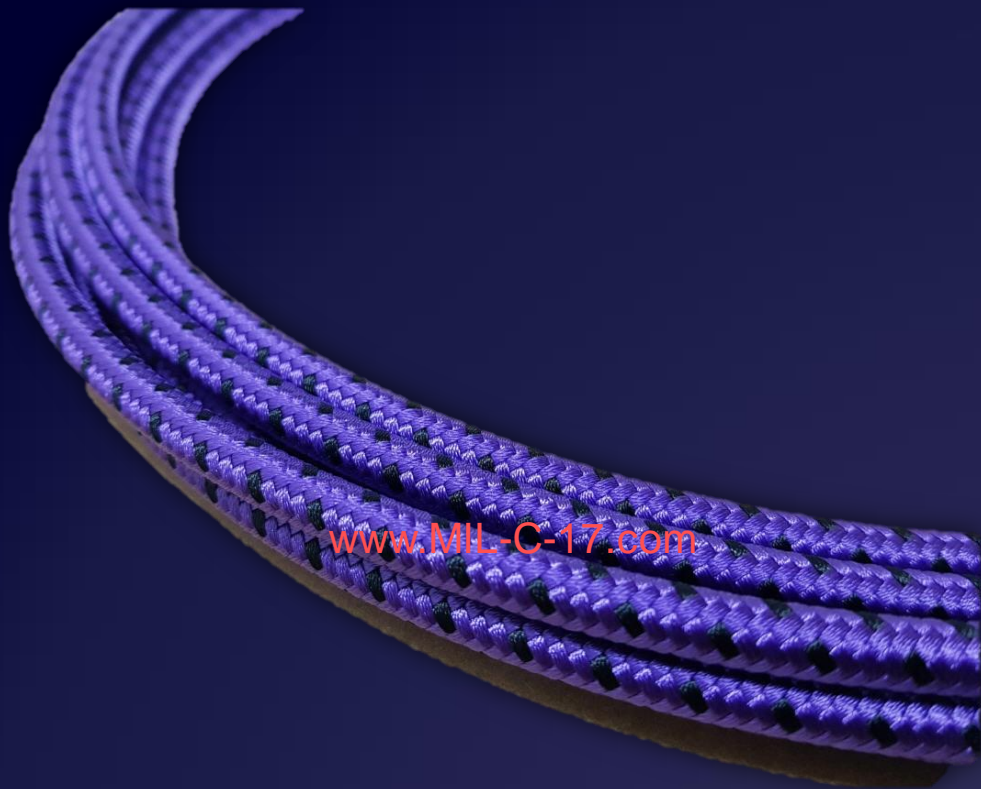


For up to ~ 70GHz
Low Loss, MIL-C-17 Standard
RF, Microwave & Milimeter-Wave
Cables, Connector & Assembly

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
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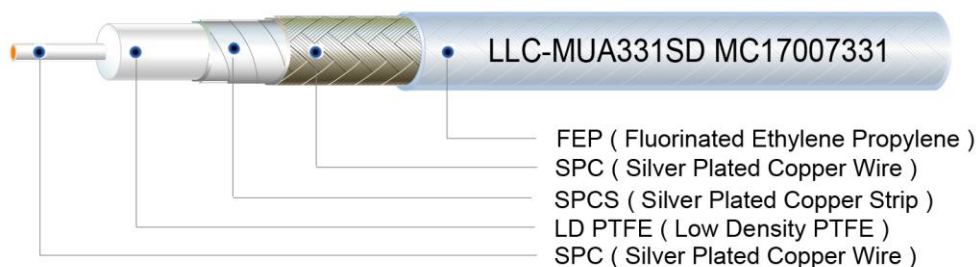


DESIGN - DEVELOPMENT - MANUFACTURE

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<p>Low Loss Microwave Cable (~ 18.0 GHz) (~ 26.5 GHz)</p> <p>Low Loss Millimeter -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 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) ...</p>
	<p>MUA147SD (~ 40.0 GHz) MUA147SD DJA (Armored)</p>	<p>Low Density PTFE Dielectric Low Loss Millimeter-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 Millimeter-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 Millimeter-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 Millimeter-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 Millimeter -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 Millimeter-Wave Cable for up to ~ 40.0 GHz . RG-405SS SE50 : Spiral Strip Shield Millimeter-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 Flexform 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 Flexform 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 Flexform 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

MUA331SD**Ultra Low Loss Microwave Coaxial Cable****Construction**

Item	Material	Diameter	Remark
Center Conductor	SPC	2.35 mm (0.093 inch) ±0.02mm	Solid
Dielectric	LD PTFE	6.90 mm (0.272 inch) ±0.05mm	Low Density PTFE
Inner Shield	SPCS	7.18 mm (0.283 inch) ±0.05mm	Silver Plated Copper Strip Taping
Outer Shield	SPC	7.62 mm (0.300 inch) ±0.07mm	Round Silver Plated Copper Wire Braiding
Jacket	FEP	8.40 mm (0.331 inch) ±0.15mm	Sky Blue

Electrical & Mechanical Data

Impedance	50Ω
Frequency Range	DC-18 GHz
Velocity of Propagation	80 %
Capacitance	26.2pf/ft (86.0pf/m)
Operating Temperature	- 55℃ ~ 200℃
Shield Effectiveness	> 100 dB
Power Handling Watts	657 (CW) @ 10 GHz
Flexures	5,000
Min. Bending Radius	1.27 inch (32.3mm)

Attenuation

Frequency (GHz)	Nom. Attenuation	
	(dB/m)	(dB/ft)
0.5	0.13	0.040
1.0	0.19	0.058
3.0	0.33	0.101
5.0	0.43	0.131
6.0	0.48	0.146
10.0	0.63	0.192
18.0	0.87	0.265

SMA-SMA Assembly up to 26.5 GHz
(3.0 Meter Length)

