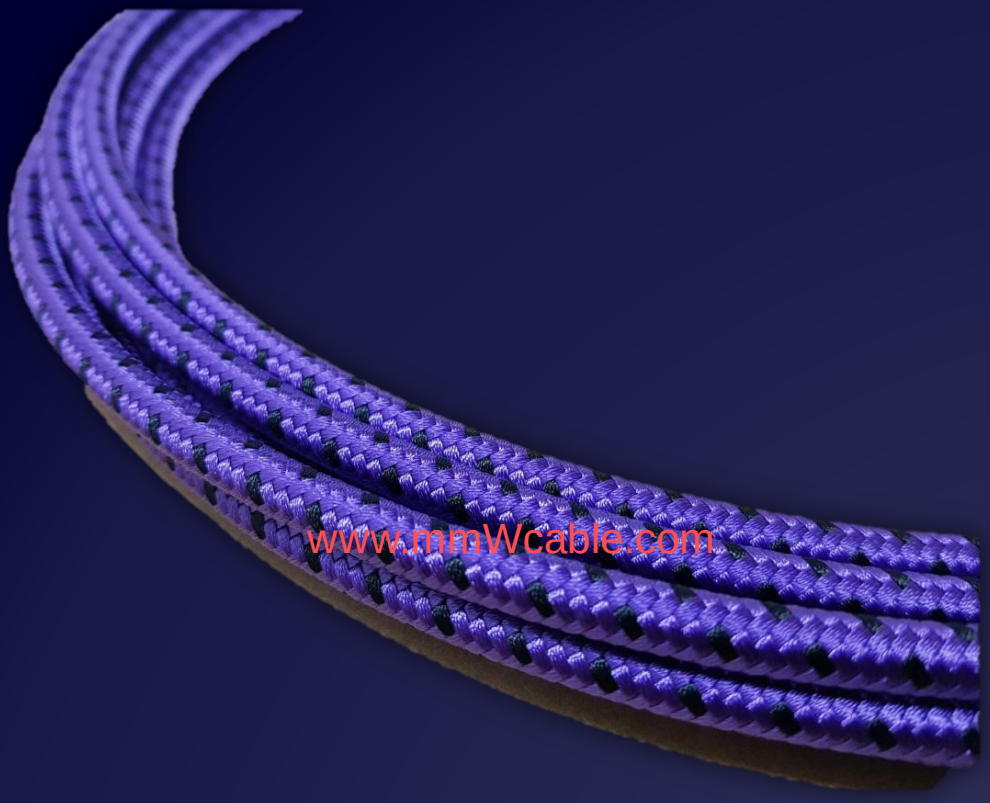
Up to ~ 70 GHz
Low Loss
RF, Microwave & Milimeter-Wave
Coaxial Cables & Assemblies

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 Industries
Automotive & Autonomous Car Industries



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) (~ 50.0 GHz) (~ 70.0 GHz)	MUA210ST MUA210SD (~ 26.5 GHz) (~ 33.0 GHz)	Low Density PTFE Dielectric Low Loss Microwave Coaxial Cable Replaceable Cable for Micro-Coax (Utiflex UFA210B, UFA210A, UFB197C, UFB205A) Huber+Suhner (Sucoflex 103, 104, 104 P), Harbour Industries (LL142) IW Microwave (1801, 1803, 1806, 1808), Semflex HP190, Times (Silver Line Type VNA Test Cable for 26.5 GHz, SFT-205)
	MUA165SD (~ 40.0 GHz) MUB142SD (~ 40.0 GHz) MUA147SD (~ 40.0 GHz) MUA160SD (~ 40.0 GHz) MUA147ST (~ 26.5 GHz)	Low Density PTFE Dielectric Low Loss Milimeter-Wave Coaxial Cable Replaceable Cable for Micro-Coax (Utiflex UFA147A, UFA147B, UFB142A) CXN3507, IW Microwave (1501, IW1506, IW1503, IW1508), Semflex HP160 Carlisle (Tensolite) TLL40-1130B, TLL40-1130A, Huber+Suhner (Sucoflex 102), Times Microwave Systems (Silver Line Type VNA Test Cable for 40.0 GHz)
	MUA-F050SD MUA-F050ST (~ 50.0 GHz)	Low Density PTFE Dielectric Low Loss Milimeter-Wave Coaxial Cable Micro-Coax (Utiflex 125A), Semflex HP120, Huber+Suhner (Sucoflex 100) IW Microwave (1401, 1403, 1406, 1408)
	MUA-F070SD (~ 70.0 GHz)	Low Density PTFE Dielectric Low Loss Milimeter-Wave Coaxial Cable IW Microwave (IW 1251, 1151, 1156)
	MUB311SD / MUB293ST MUA331SD / MUA331ST (~ 18.0 GHz)	Low Density PTFE Dielectric Ultra Low Loss Microwave Coaxial Cable Replaceable Cable for Micro-Coax (UFB311A, UFB293C), Harbour (LL335) IW Microwave (IW 2801), Huber+Suhner (Sucoflex 106), Semflex (LA290, HP305) Times Microwave Systems (HF-290)
Spiral Strip Shield Microwave Cable (~ 18.0 GHz) (~ 26.5 GHz) Spiral Strip Shield Milimeter -Wave Cable (~ 33.0 GHz) (~ 40.0 GHz) (~ 50.0 GHz)	RG-402SS (~ 18.0 GHz, ~ 26.5 GHz)	Phase-Stable Microwave Coaxial Cable Replaceable 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 Replaceable Cable for SS405, Semflex SM405, Tflex-405, Multibend 405, Multiflex_86 Cable
	RG-401SS (~ 18.0 GHz)	Phase-Stable Microwave Coaxial Cable Replaceable Cable for SS401,Tflex-401, Multibend 401 Cable
	RG-405SS SE40/SE50 (~ 40.0 GHz, ~ 50.0 GHz)	Phase-Stable Microwave Coaxial Cable Spiral Strip Shield Milimeter-Wave Cable for up to ~ 40.0 GHz and 50.0 GHz
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) SF Cable	High Performance (VSWR)	High Performance (VSWR) Semi-Flexible Cable (Hand-Formable Cable) SF-141 HTA, SF-113 HTA ……
High Performance (Low Loss) SF Cable	High Performance (Low Loss)	High Performance (Low Loss) Semi-Flexible Cable (Hand-Formable Cable) SF-141 LLC, SF-085 LLC …
Semi-Rigid Coaxial Cable	TC / TA / BC Tube	Tin Plated Copper Tube, Tin Plated Aluminum Tube, Bare Copper Tube SR-031, SR-034, SR-047, SR-085, SR-141, SR-250 ……
Flexible Low Loss Communication Coaxial Cable	Standard LMR Type	LMR-100A Type, LMR-195 Type, LMR-200 Type, LMR-240 Type, LMR-300 Type, LMR-400 Type, LMR-500 Type, LMR-600 Type
Ultra Flexible Communication Coaxial Cable	LMR UtraFlex Type (UF Type)	LMR-195 UF Type, LMR-200 UF Type, LMR-240 UF Type, LMR-300 UF Type, LMR-400 UF Type, LMR-500 UF Type, LMR-600 UF Type
Flexible Low Loss Plenum Coaxial Cable	Low Density PTFE Dielectric (LLPL Type)	LMR-195 LLPL Type, LMR-200 LLPL Type, LMR-240 LLPL Type, LMR-300 LLPL Type
Flexible Low Loss High Power Communications Coaxial Cable	Low Density PTFE Dielectric (FBT Type)	FBT-195 Type, FBT-200 Type, FBT-240 Type, FBT-300 Type, FBT-400 Type

Cable Part No.	MUA165SD	MUA210SD	MUA210ST	MUA331SD
Max. Frequency	40 GHz	26.5 GHz	26.5 GHz, 33 GHz	18 GHz
Connector	2.92mm	SMA, 3.5mm, N	SMA, 3.5mm, N	SMA, N Type
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
Center Conductor	Solid	Solid	19 Stranded	Solid
Dielectric	Microporous PTFE	Microporous PTFE	Microporous PTFE	Microporous PTFE
Core Shield	Spiral Strip	Spiral Strip	Spiral Strip	Spiral Strip
Jacket	FEP (TPU)	FEP (TPU)	FEP (TPU)	FEP (TPU)
Operating Temperature	- 55℃ ~ 165℃ (- 40℃ ~ 85℃)	- 55℃ ~ 165℃ (- 40℃ ~ 85℃)	- 55℃ ~ 165℃ (- 40℃ ~ 85℃)	- 55℃ ~ 165℃ (- 40℃ ~ 85℃)
Shield Effectiveness	> -100 dB	> -100 dB	> -100 dB	> -100 dB
Max. Power Handling (CW) @ 10 GHz	155 W	284 W	247 W	657 W
Phase Stability @ 10 GHz	3°	2°	2°	3°
Insertion Loss @ Max. Frequency	2.76 dB/m	1.47 dB/m	1.57, 1.95 dB/m	0.87 dB/m
Outer Dimension	4.20 mm	5.33 mm	5.33 mm	8.40 mm
Bending Radius	7.7 mm	9.9 mm	9.7 mm	34.9 mm

Cable Part No.	MUA-F070SD	MUA-F050SD	MUA165SD Double Jacket	MUA210ST Double Jacket
Max. Frequency	65 GHz	50 GHz	40 GHz	26.5 GHz, 33 GHz
Connector	1.85mm	2.4mm	2.92mm	SMA, 3.5mm, N
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
Center Conductor	Solid	Solid	Solid	19 Stranded
Dielectric	Microporous PTFE	Microporous PTFE	Microporous PTFE	Microporous PTFE
Core Shield	Spiral Strip	Spiral Strip	Spiral Strip	Spiral Strip
Jacket	FEP (TPU)	FEP (TPU)	FEP (TPU)	FEP + TPU
Operating Temperature	- 55℃ ~ 165℃ (- 40℃ ~ 85℃)	- 55℃ ~ 165℃ (- 40℃ ~ 85℃)	- 55℃ ~ 165℃ (- 40℃ ~ 85℃)	- 55℃ ~ 165℃ (- 40℃ ~ 85℃)
Shield Effectiveness	> -100 dB	> -100 dB	> -100 dB	> -100 dB
Max. Power Handling (CW) @ 10 GHz	63 W	105 W	155 W	247 W
Phase Stability @ 10 GHz	3°	3°	3°	2°
Insertion Loss @ Max. Frequency	5.86 dB/m	3.93 dB/m	2.76 dB/m	1.57, 1.95 dB/m
Outer Dimension	2.60 mm	3.18 mm	4.20 mm	5.33 mm
Bending Radius	3.9 mm	5.5 mm	7.7 mm	9.7 mm