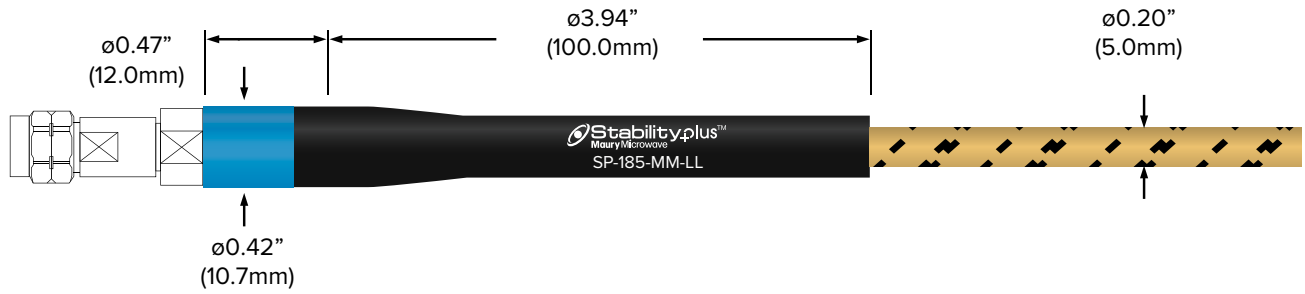
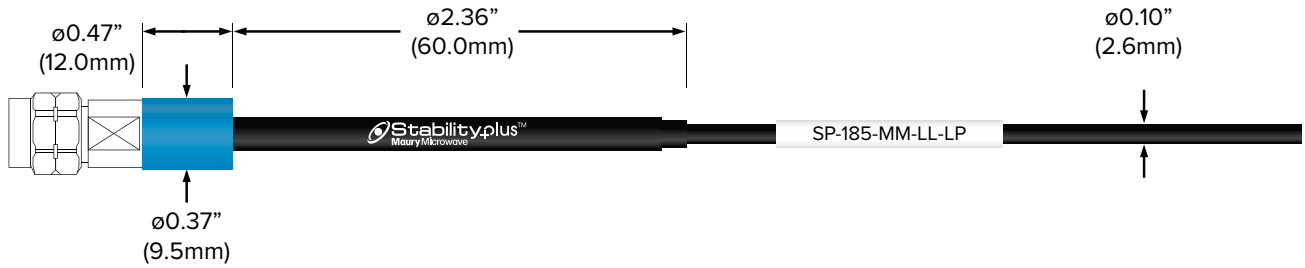


Cable Assemblies Comparison

DATA SHEET 2Z-016



1.85mm Cable Assemblies



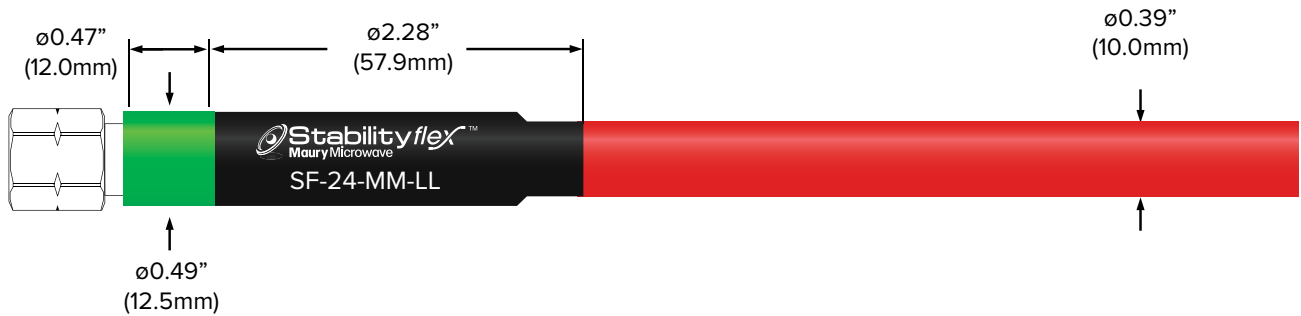
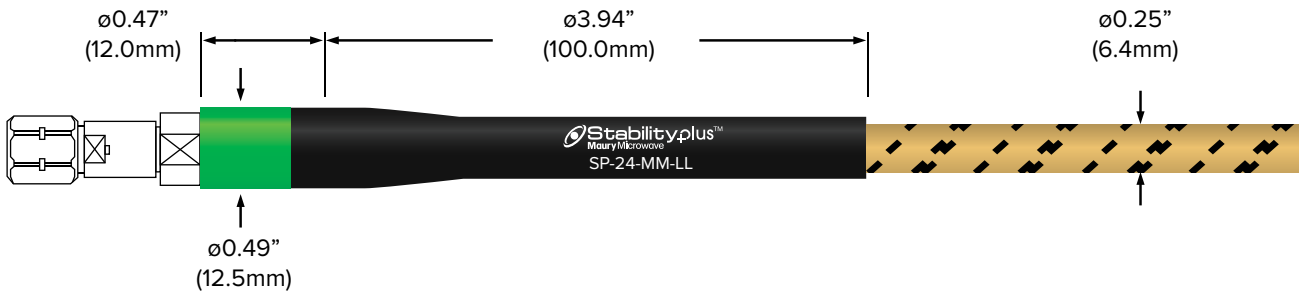
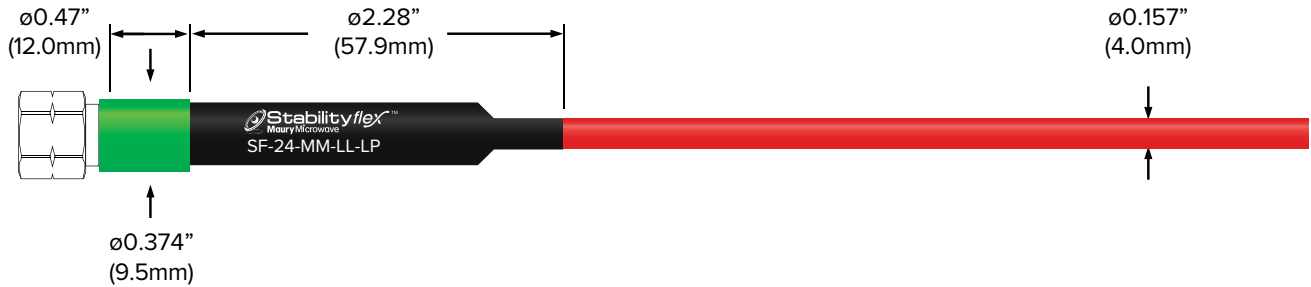
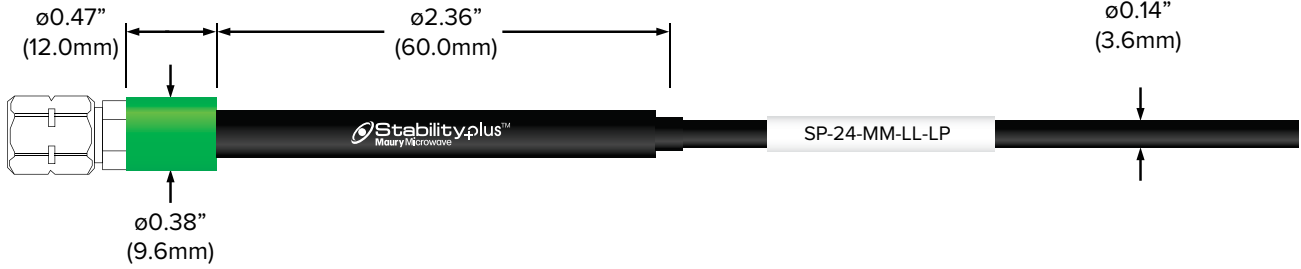
Electrical Specifications

Stability™ Cable Type	SW-185	SP-185-LP	SP-185	SV-185		
Maximum Frequency	67 GHz	67 GHz	67 GHz	67 GHz		
Typical Insertion Loss (cable only)	1.79 dB/ft	1.79 dB/ft	1.70 dB/ft	1.79 dB/ft		
VSWR (typical)	1.20:1	1.20:1	1.20:1	1.35:1		
VSWR (maximum)	1.40:1	N/A	N/A	1.40:1		
Cable Length (in)	N/A	N/A	N/A	25	38	48
Typical Insertion Loss (dB)	N/A	N/A	N/A	4.36	6.35	7.88
Max Insertion Loss (dB)	N/A	N/A	N/A	4.69	6.68	8.21
Typical Phase Stability (degree)	±5°	±6°	±6°	±4.0°	±5.0°	±7.0°
Max Phase Stability (degree)	±14°	±14°	±14°	±7.0°	±9.0°	
Typical Amplitude Stability (dB)	±0.15 dB	±0.05 dB	±0.05 dB	±0.05 dB	±0.07 dB	
Max Amplitude Stability (dB)	±0.20 dB	±0.20 dB	±0.20 dB	±0.15 dB	±0.20 dB	
Impedance (nominal)	50 ohm	50 ohm	50 ohm	50 ohm		
Velocity of Propagation	74% (Nominal)	74% (nominal)	74% (nominal)	74% (nominal)		
Shielding Effectiveness	>90 dB (DC - 18 GHz)	>90 dB (DC - 18 GHz)	>100 dB (DC - 18 GHz)	>100 dB (DC - 18 GHz)		
Time Delay (nominal)	1.34 ns/ft	1.34 ns/ft (4.5 ns/m)	1.34 ns/ft (4.5 ns/m)	1.34 ns/ft (4.5 ns/m)		

Mechanical Specifications

Stability™ Cable Type	SW-185	SP-185-LP	SP-185	SV-185		
Center Conductor Material	Silver Plated Copper	Silver Plated Copper	Silver Plated Copper	Silver Plated Copper		
Cable Outer Diameter (nominal)	0.1 in. (2.6mm)	0.1 in. (2.6mm)	0.2 in. (5mm)	0.6 in (15.1mm)		
Cable Length (in)	N/A	N/A	N/A	25	38	48
Nominal Weight	0.237 oz/ft (22g/m)	0.237 oz/ft (22g/m)	0.677 oz/ft (63g/m)	11.1 oz (315g)	13.6 oz (385g)	16.1 oz (455g)
Flex Life Cycles (typical)	>10,000	>15,000	>15,000	>50,000		
Connector Mating Cycles	>5,000	>5,000	>5,000	N/A		
Static. Bend Radius	0.51 in (13mm)	0.51 in (13mm)	1.0 in (25.4mm)	2.0 in (50.8mm)		
Dynamic. Bend Radius	1.1 in (28mm)	1.1 in (28mm)	2.0 in (50.8mm)	N/A		
Crush Resistance	>34 lbf/in (6 kgf/cm)	>23 lbf/in (4 kgf/cm)	>254 lbf/in (44 kgf/cm)	>839 lbsf/in (150 kgf/cm)		
Operating Temperature Range	-40°F to 221°F (-40°C to 105°C)	-67°F to 221°F (-55°C to 105°C)	-67°F to 221°F (-55°C to 105°C)	64.4°F to 82.4°F (18°C to 28°C)		
ROH/Reach	Yes	Yes	Yes	Yes		

2.4mm Cable Assemblies



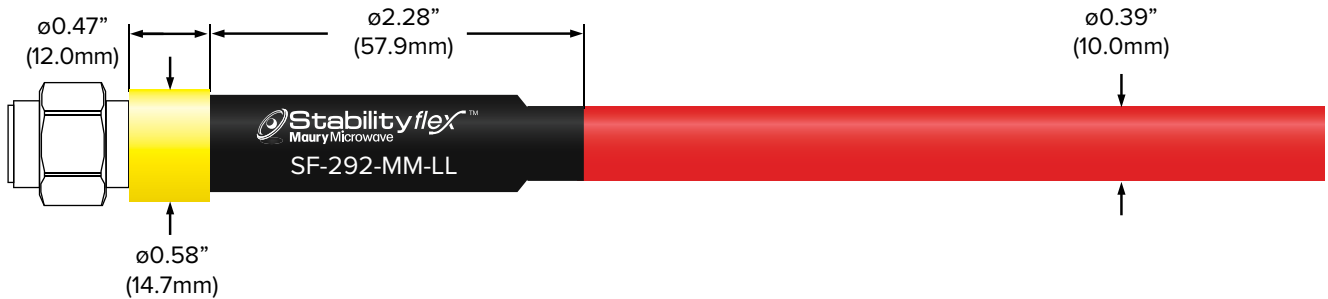
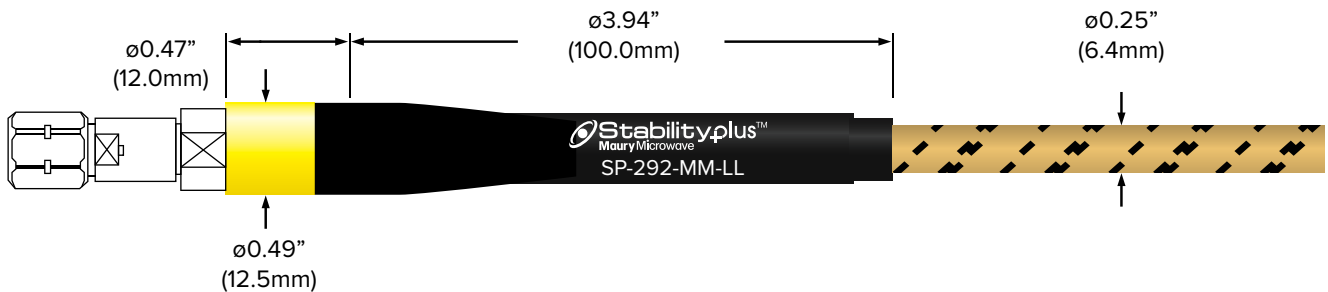
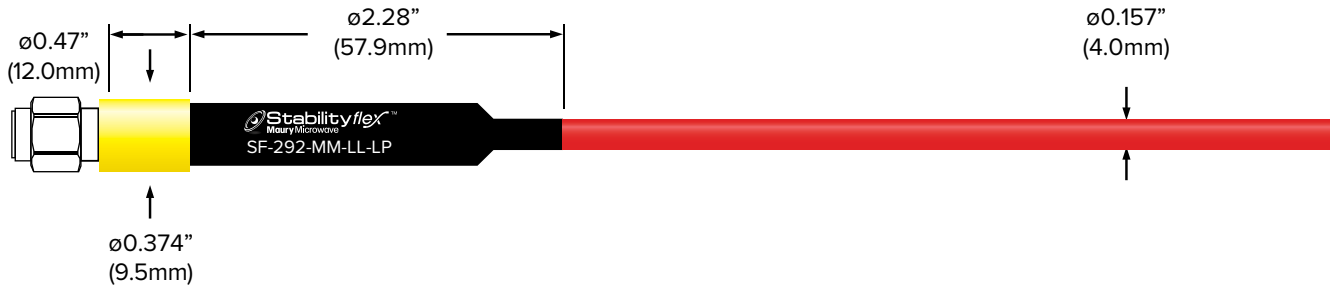
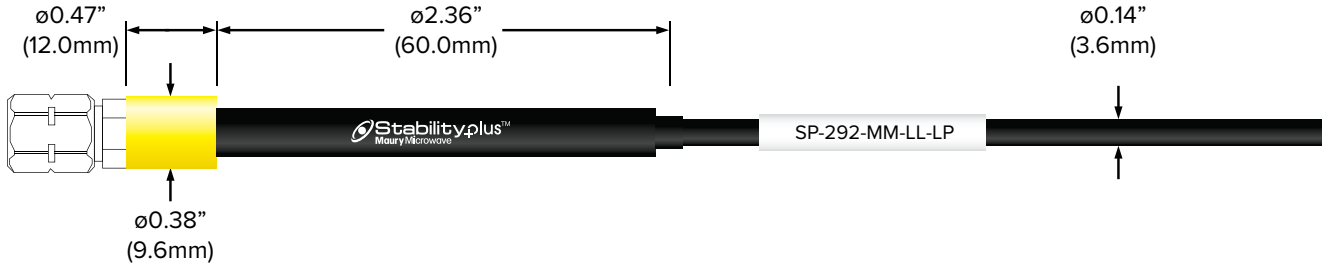
Electrical Specifications

Stability™ Cable Type	SW-24	SP-24-LP	SF-24-LP	SP-24	SF-24	SV-24		
Maximum Frequency	50 GHz	50 GHz	50 GHz	50 GHz	50 GHz	50 GHz		
Typical Insertion Loss (cable only)	1.52 dB/ft	1.00 dB/ft	1.49 dB/ft	0.95 dB/ft	1.49 dB/ft	1.00 dB/ft		
VSWR (typical)	115:1	115:1	1.30:1	115:1	1.30:1	1.25:1		
VSWR (maximum)	1.30:1	N/A	N/A	N/A	N/A	1.35:1		
Cable Length (in)	N/A	N/A	N/A	N/A	N/A	25	38	48
Typical Insertion Loss (dB)	N/A	N/A	N/A	N/A	N/A	2.70	3.79	4.62
Max Insertion Loss (dB)	N/A	N/A	N/A	N/A	N/A	2.98	4.07	4.90
Typical Phase Stability (degree)	±3°	±4°	±8°	±4°	±8°	±2.0°	±4.0°	
Max Phase Stability (degree)	±10.5°	± 10.5°	N/A	±10.5°	N/A	±3.5°	±8.0°	
Typical Amplitude Stability (dB)	± 0.05 dB	±0.05 dB	±0.08 dB	±0.05 dB	±0.08 dB	±0.02 dB	±0.03 dB	
Max Amplitude Stability (dB)	± 0.10 dB	± 0.10 dB	N/A	±0.10 dB	N/A	±0.08 dB	±0.10 dB	±0.13 dB
Impedance (nominal)	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm		
Velocity of Propagation	74% (Nominal)	74% (nominal)	74% (nominal)	74% (nominal)	74% (nominal)	74% (nominal)		
Shielding Effectiveness	>90 dB (DC - 18 GHz)	>90 dB (DC - 18 GHz)	>90 dB (DC - 18 GHz)	>100 dB (DC - 18 GHz)	>90 dB (DC - 18 GHz)	>100 dB (DC - 18 GHz)		
Time Delay (nominal)	1.34 ns/ft (4.5 ns/m)	1.34 ns/ft (4.5 ns/m)	1.37 ns/ft (4.5 ns/m)	1.34 ns/ft (4.5 ns/m)	1.37 ns/ft (4.5 ns/m)	1.34 ns/ft (4.5 ns/m)		

Mechanical Specifications

Stability™ Cable Type	SW-24	SP-24-LP	SF-24-LP	SP-24	SF-24	SV-24		
Center Conductor Material	Silver Plated Copper	Silver Plated Copper	Stranded Silver Plated Copper	Silver Plated Copper	Stranded Silver Plated Copper	Silver Plated Copper		
Cable Outer Diameter (nominal)	0.1 in (2.6mm)	0.14 in (3.6mm)	0.16 in (4.06mm)	0.25 in (6.35mm)	0.4 in (10.2mm)	0.6 in (15.1mm)		
Cable Length (in)	N/A	N/A	N/A	N/A	N/A	25	38	48
Nominal Weight	0.237 oz/ft (22g/m)	0.38 oz/ft (35g/m)	0.32 oz/ft (30g/m)	0.97 oz/ft (90g/m)	1.83 Oz/ft (170g/m)	11.1 oz (315g)	13.6 oz (385g)	16.1 oz (455g)
Flex Life Cycles (typical)	>10,000	>15,000	>10,000	>15,000	>10,000	>50,000		
Connector Mating Cycles	>5,000	>5,000	N/A	>5,000	N/A	N/A		
Static. Bend Radius	0.51 in (13mm)	0.55 in (14mm)	0.63 in (16mm)	1.0 in (25.4mm)	1.97 in (50mm)	2.0 in (50.8mm)		
Dynamic. Bend Radius	1.1 in (28mm)	1.4 in (36mm)	1.97 in (50mm)	2.0 in (50.8mm)	3.94 in (100mm)	N/A		
Crush Resistance	>34 lbf/in (6 kgf/cm)	>23 lbf/in (4 kgf/cm)	>80 lbf/in (14 kgf/cm)	>305 lbf/in (54 kgf/cm)	>440 lbf/in (78 kgf/cm)	>839 lbs/in (150 kgf/cm)		
Operating Temperature Range	-40°F to 221°F (-40°C to 105°C)	-67°F to 221°F (-55°C to 105°C)	-67°F to 121°F (-55°C to 85°C)	-67°F to 221°F (-55°C to 105°C)	-67°F to 121°F (-55°C to 85°C)	64.4°F to 82.4°F (18°C to 28°C)		
ROH/Reach	Yes	Yes	Yes	Yes	Yes	Yes		

2.92mm Cable Assemblies



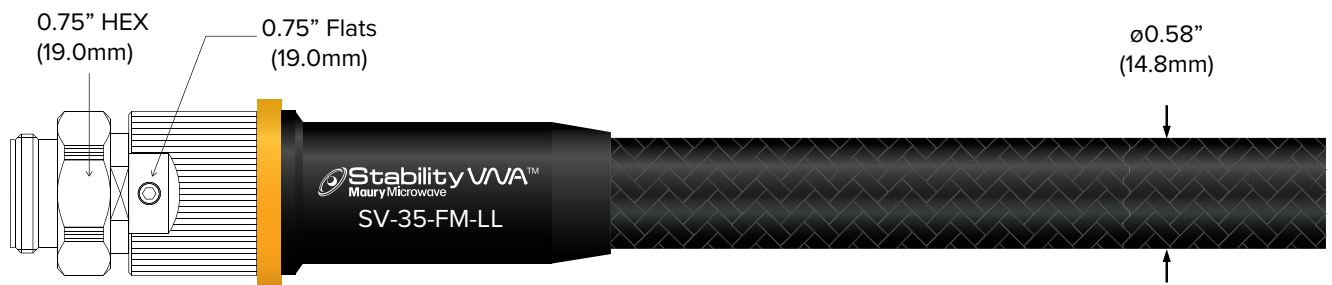
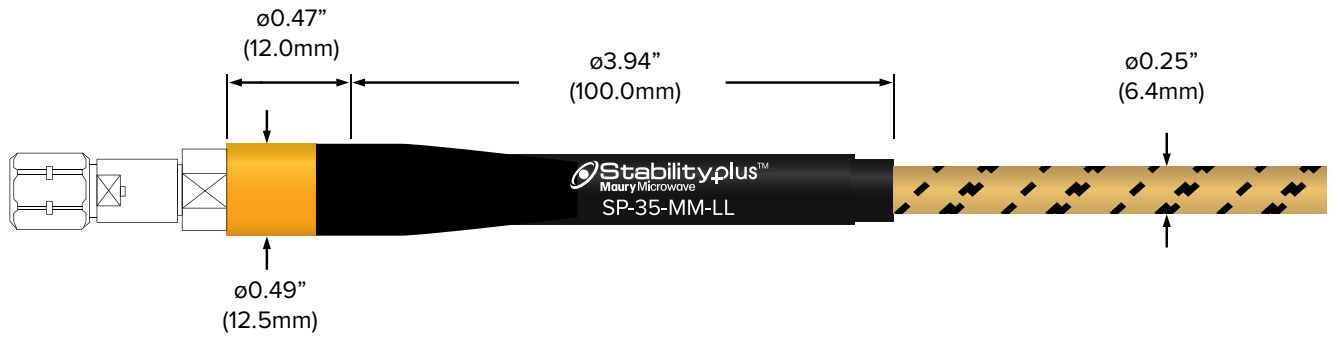
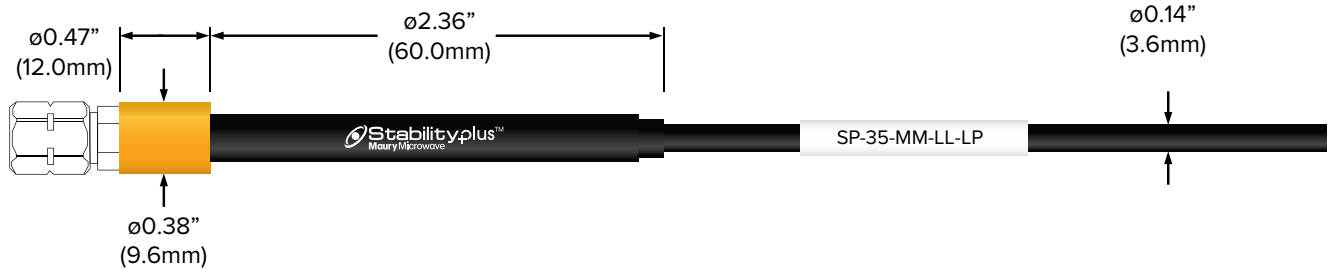
Electrical Specifications

Stability™ Cable Type	SW-292	SP-292-LP	SF-292-LP	SP-292	SF-292	SV-292		
Maximum Frequency	40 GHz	40 GHz	40 GHz	40 GHz	40 GHz	40 GHz		
Typical Insertion Loss (cable only)	1.34 dB/ft	0.89 dB/ft	1.31 dB/ft	0.84 dB/ft	1.31 dB/ft	0.89 dB/ft		
VSWR (typical)	1.15:1	1.10:1	1.25:1	1.10:1	1.25:1	1.25:1		
VSWR (maximum)	1.25:1	N/A	N/A	N/A	N/A	1.32:1		
Cable Length (in)	N/A	N/A	N/A	N/A	N/A	25	38	48
Typical Insertion Loss (dB)	N/A	N/A	N/A	N/A	N/A	2.41	3.37	4.11
Max Insertion Loss (dB)	N/A	N/A	N/A	N/A	N/A	2.66	3.62	4.37
Typical Phase Stability (degree)	± 2°	±2°	±6°	±2°	±6°	±2.0°	±3.0°	
Max Phase Stability (degree)	±8.5°	± 8.5°	N/A	±8.5°	N/A	±3.0°	±6.0°	
Typical Amplitude Stability (dB)	± 0.05 dB	±0.02 dB	±0.05 dB	±0.02 dB	±0.05 dB	±0.02°		±0.03°
Max Amplitude Stability (dB)	± 0.10 dB	±0.10 dB	N/A	±0.10 dB	N/A	±0.08 dB	±0.10 dB	
Impedance (nominal)	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm		
Velocity of Propagation	74% (Nominal)	74% (nominal)	74% (nominal)	74% (nominal)	74% (nominal)	74% (nominal)		
Shielding Effectiveness	>90 dB (DC - 18 GHz)	>90 dB (DC - 18 GHz)	>90 dB (DC - 18 GHz)	>100 dB (DC - 18 GHz)	>90 dB (DC - 18 GHz)	>100 dB (DC - 18 GHz)		
Time Delay (nominal)	1.34 ns/ft (4.5 ns/m)	1.34 ns/ft (4.5 ns/m)	1.37 ns/ft (4.5 ns/m)	1.34 ns/ft (4.5 ns/m)	1.37 ns/ft (4.5 ns/m)	1.34 ns/ft (4.5 ns/m)		

Mechanical Specifications

Stability™ Cable Type	SW-292	SP-292-LP	SF-292-LP	SP-292	SF-292	SV-292		
Center Conductor Material	Silver Plated Copper	Silver Plated Copper	Stranded Silver Plated Copper	Silver Plated Copper	Stranded Silver Plated Copper	Silver Plated Copper		
Cable Outer Diameter (nominal)	0.1 in (2.6mm)	0.14 in (3.6mm)	0.16 in (4.06mm)	0.25 in (6.35mm)	0.4 in (10.2mm)	0.6 in (15.1mm)		
Cable Length (in)	N/A	N/A	N/A	N/A	N/A	25 in	38 in	48 in
Nominal Weight	0.237 oz/ft (22g/m)	0.38 oz/ft (35g/m)	0.32 Oz/ft (30g/m)	0.97 oz/ft (90g/m)	1.83 Oz/ft (170g/m)	11.1 oz (315g)	13.6 oz (385g)	16.1 oz (455g)
Flex Life Cycles (typical)	>10,000	>15,000	>10,000	>15,000	>10,000	>50,000		
Connector Mating Cycles	>5,000	>5,000	N/A	>5,000	N/A	N/A		
Static. Bend Radius	0.51 in (13mm)	0.55 in (14mm)	0.63 in (16.0mm)	1.0 in (25.4mm)	1.97 in (50.0mm)	2.00 in (50mm)		
Dynamic. Bend Radius	1.1 in (28mm)	1.4 in (36mm)	1.97 in (50.0mm)	2.0 in (50.8mm)	3.94 in (100.0mm)	N/A		
Crush Resistance	>34 lbf/in (6 kgf/cm)	>23 lbf/in (4 kgf/cm)	>80 lbf/in (14 kgf/cm)	>305 lbf/in (54 kgf/cm)	>440 lbf/in (78 kgf/cm)	>839 lbsf/in (150 kgf/cm)		
Operating Temperature Range	-40°F to 221°F (-40°C to 105°C)	-67°F to 221°F (-55°C to 105°C)	-67°F to 121°F (-55°C to 85°C)	-67°F to 221°F (-55°C to 105°C)	-67°F to 121°F (-55°C to 85°C)	64.4°F to 82.4°F (18°C to 28°C)		
ROH/Reach	Yes	Yes	Yes	Yes	Yes	Yes		

3.5mm Cable Assemblies



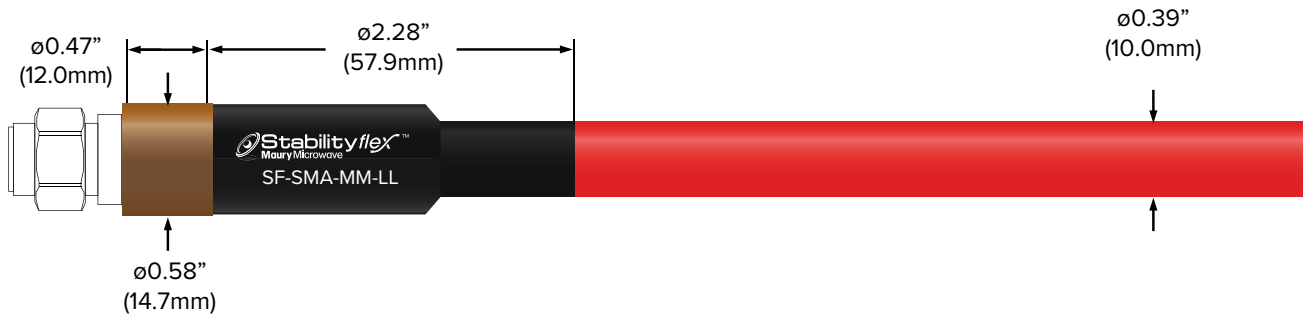
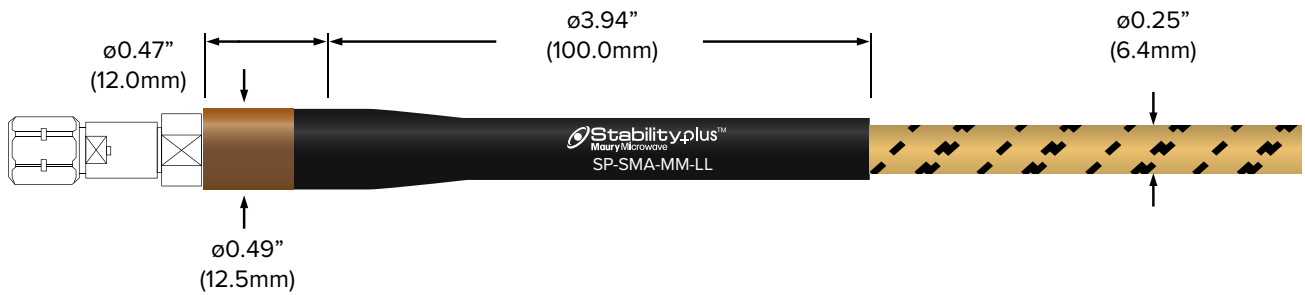
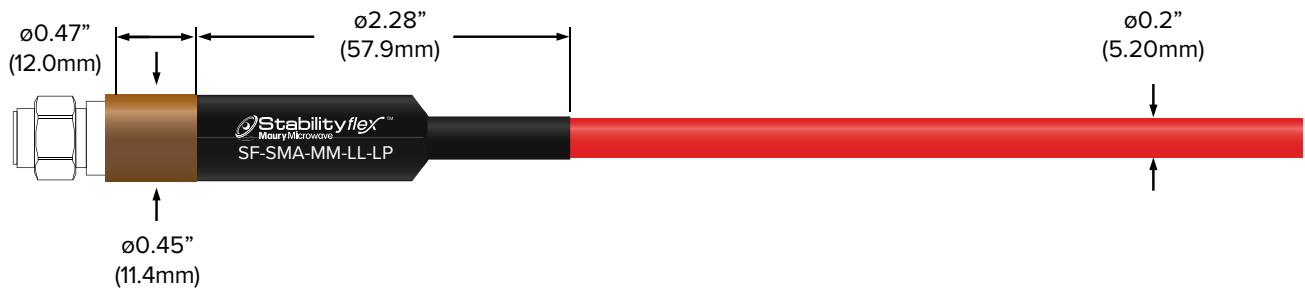
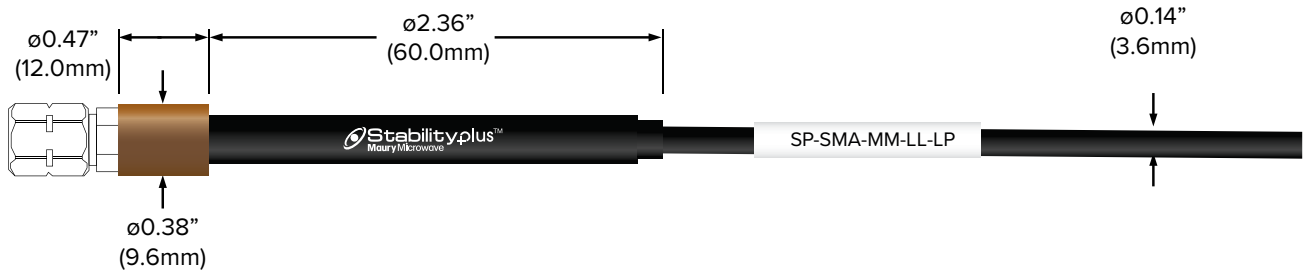
Electrical Specifications

Stability™ Cable Type	SW-35	SP-35-LP	SP-35	SV-35		
Maximum Frequency	26.5 GHz	26.5 GHz	26.5 GHz	26.5 GHz		
Typical Insertion Loss (cable only)	1.07 dB/ft	0.72 dB/ft	0.68 dB/ft	0.72 dB/ft		
VSWR (typical)	110:1	110:1	110:1	118:1		
VSWR (maximum)	1.25:1	N/A	N/A	1.25:1		
Cable Length (in)	N/A	N/A	N/A	25 in	38 in	48 in
Typical Insertion Loss (dB)	N/A	N/A	N/A	1.95	2.73	3.32
Max Insertion Loss (dB)	N/A	N/A	N/A	2.16	2.93	3.53
Typical Phase Stability (degree)	± 2°	± 2°	± 2°	±2.0°		±3.0°
Max Phase Stability (degree)	±5.5°	±5.5°	±5.5°	±2.7°	±5.5°	
Typical Amplitude Stability (dB)	± 0.04 dB	± 0.02 dB	± 0.02 dB	±0.02 dB		±0.03 dB
Max Amplitude Stability (dB)	± 0.10 dB	± 0.10 dB	± 0.10 dB	±0.08 dB	±0.10 dB	
Impedance (nominal)	50 ohm	50 ohm	50 ohm	50 ohm		
Velocity of Propagation	74% (Nominal)	74% (Nominal)	74% (Nominal)	74% (nominal)		
Shielding Effectiveness	>90 dB (DC - 18 GHz)	>90 dB (DC - 18 GHz)	>100 dB (DC - 18 GHz)	>100 dB (DC - 18 GHz)		
Time Delay (nominal)	1.34 ns/ft (4.5 ns/m)	1.34 ns/ft (4.5 ns/m)	1.34 ns/ft (4.5 ns/m)	1.34 ns/ft (4.5 ns/m)		

Mechanical Specifications

Stability™ Cable Type	SW-35	SP-35-LP	SP-35	SV-35		
Center Conductor Material	Silver Plated Copper	Silver Plated Copper	Silver Plated Copper	Silver Plated Copper		
Cable Outer Diameter (nominal)	0.1 in (2.6mm)	0.14 in (3.6mm)	0.25 in (6.35mm)	0.6 in (15.1mm)		
Cable Length (in)	N/A	N/A	N/A	25 in	38 in	48 in
Nominal Weight	0.237 oz/ft (22g/m)	0.38 oz/ft (35g/m)	0.97 oz/ft (90g/m)	11.1 oz (315g)	13.6 oz (385g)	16.1 oz (455g)
Flex Life Cycles (typical)	>10,000	>15,000	>15,000	>50,000		
Connector Mating Cycles	>5,000	>5,000	>5,000	N/A		
Static. Bend Radius	0.51 in (13mm)	0.55 in (14mm)	1.0 in (25.4mm)	2.0 in (50mm)		
Dynamic. Bend Radius	1.1 in (28mm)	1.4 in (36mm)	2.0 in (50.8mm)	N/A		
Crush Resistance	>34 lbf/in (6 kgf/cm)	>23 lbf/in (4 kgf/cm)	>305 lbf/in (54 kgf/cm)	>839 lbf/in (150 kgf/cm)		
Operating Temperature Range	-40°F to 221°F (-40°C to 105°C)	-67°F to 221°F (-55°C to 105°C)	-67°F to 221°F (-55°C to 105°C)	64.4°F to 82.4°F (18°C to 28°C)		
ROH/Reach	Yes	Yes	Yes	Yes		

SMA Cable Assemblies



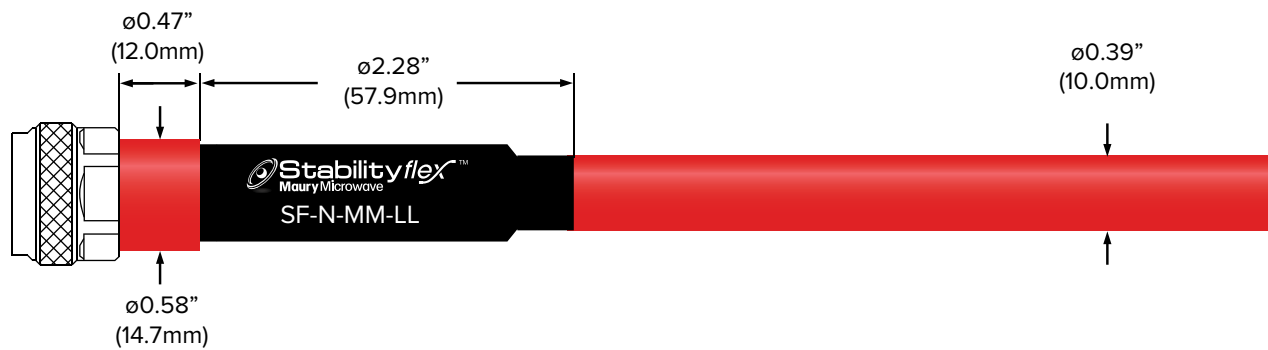
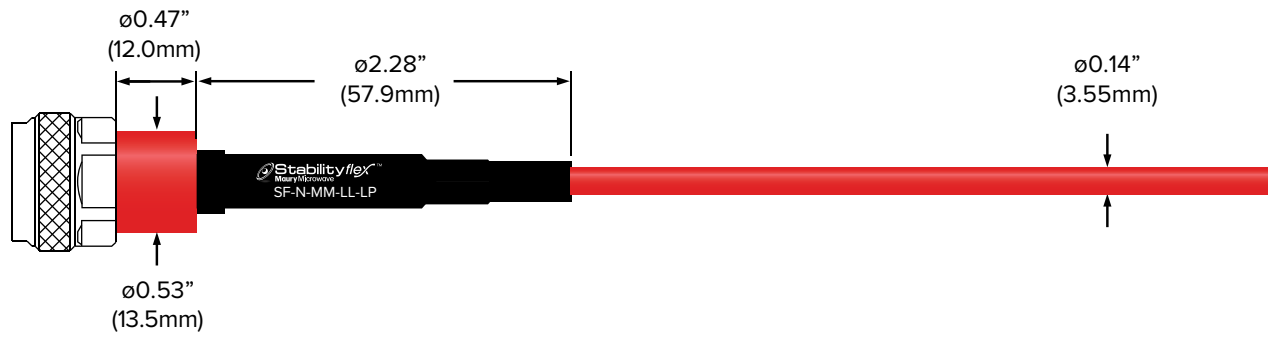
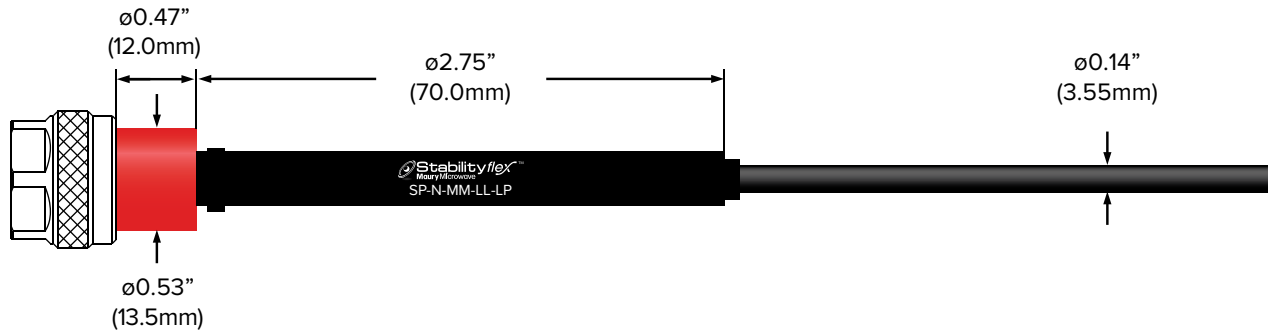
Electrical Specifications

Stability™ Cable Type	SP-SMA-LP	SF-SMA-LP	SP-SMA	SF-SMA
Maximum Frequency	26.5 GHz	26.5 GHz	26.5 GHz	26.5 GHz
Typical Insertion Loss (cable only)	0.72 dB/ft	0.77 dB/ft	0.68 dB/ft	0.77 dB/ft
VSWR (typical)	110:1	1.25:1	110:1	1.25:1
VSWR (maximum)	N/A	N/A	N/A	N/A
Cable Length (in)	N/A	N/A	N/A	N/A
Typical Insertion Loss (dB)	N/A	N/A	N/A	N/A
Max Insertion Loss (dB)	N/A	N/A	N/A	N/A
Typical Phase Stability (degree)	± 2°	±4°	± 2°	±4°
Max Phase Stability (degree)	±5.5°	N/A	±5.5°	N/A
Typical Amplitude Stability (dB)	± 0.02 dB	±0.05 dB	± 0.02 dB	±0.05 dB
Max Amplitude Stability (dB)	± 0.10 dB	N/A	± 0.10 dB	N/A
Impedance (nominal)	50 ohm	50 ohm	50 ohm	50 ohm
Velocity of Propagation	74% (Nominal)	74% (nominal)	74% (Nominal)	74% (nominal)
Shielding Effectiveness	>90 dB (DC - 18 GHz)	>90 dB (DC - 18 GHz)	>100 dB (DC - 18 GHz)	>90 dB
Time Delay (nominal)	1.34 ns/ft (4.5 ns/m)	1.37 ns/ft (4.5 ns/m)	1.34 ns/ft (4.5 ns/m)	1.37 ns/ft (4.5 ns/m)

Mechanical Specifications

Stability™ Cable Type	SP-SMA-LP	SF-SMA-LP	SP-SMA	SF-SMA
Center Conductor Material	Silver Plated Copper	Stranded Silver Plated Copper	Silver Plated Copper	Stranded Silver Plated Copper
Cable Outer Diameter (nominal)	0.14 in (3.6mm)	0.21 in (5.35mm)	0.25 in (6.35mm)	0.4 in (10.2mm)
Cable Length (in)	N/A	N/A	N/A	N/A
Nominal Weight	0.38 oz/ft (35g/m)	0.54 Oz/ft (50g/m)	0.97 oz/ft (90g/m)	2.04 Oz/ft (190g/m)
Flex Life Cycles (typical)	>15,000	>10,000	>15,000	>10,000
Connector Mating Cycles	>5,000	N/A	>5,000	N/A
Static. Bend Radius	0.55 in (14mm)	0.63 in (16.0mm)	1.0 in (25.6mm)	1.97 in (50.0mm)
Dynamic. Bend Radius	1.4 in (36mm)	1.97 in (50.0mm)	2 in (50.8mm)	3.94 in (100.0mm)
Crush Resistance	>23 lbf/in (4 kgf/cm)	80 lbf/in (14 Kgf/cm)	>305 lbf/in (54 kgf/cm)	440 lbf/in (78 Kgf/cm)
Operating Temperature Range	-67°F to 221°F (-55°C to 105°C)	-67°+121 °F (-55°+85°C)	-67°F to 221°F (-55°C to 105°C)	-67°+121 °F (-55°+85°C)
ROH/Reach	Yes	Yes	Yes	Yes

Type N Cable Assemblies



Electrical Specifications

Stability™ Cable Type	SP-N-LP	SF-N-LP	SP-N	SF-N
Maximum Frequency	18 GHz	18 GHz	18 GHz	18 GHz
Typical Insertion Loss (cable only)	0.61 dB/ft	0.60 dB/ft	0.55 dB/ft	0.60 dB/ft
VSWR (typical)	1.10:1	1.25:1	1.10:1	1.25:1
VSWR (maximum)	N/A	N/A	N/A	N/A
Cable Length (in)	N/A	N/A	N/A	N/A
Typical Insertion Loss (dB)	N/A	N/A	N/A	N/A
Max Insertion Loss (dB)	N/A	N/A	N/A	N/A
Typical Phase Stability (degree)	±2°	±3°	±2°	±3°
Max Phase Stability (degree)	±4.2°	N/A	±4.2°	N/A
Typical Amplitude Stability (dB)	±0.02 dB	±0.05 dB	±0.02 dB	±0.05 dB
Max Amplitude Stability (dB)	±0.10 dB	N/A	±0.10 dB	N/A
Impedance (nominal)	50 ohm	50 ohm	50 ohm	50 ohm
Velocity of Propagation	74% (nominal)	74% (nominal)	74% (nominal)	74% (nominal)
Shielding Effectiveness	>90 dB (DC - 18 GHz)	>90 dB (DC - 18 GHz)	>100 dB (DC - 18 GHz)	>90 dB (DC - 18 GHz)
Time Delay (nominal)	1.37 ns/ft (4.5 ns/m)	1.37 ns/ft (4.5 ns/m)	1.34 ns/ft (4.5 ns/m)	1.37 ns/ft (4.5 ns/m)

Mechanical Specifications

Stability™ Cable Type	SP-N-LP	SF-N-LP	SP-N	SF-N
Center Conductor Material	Silver Plated Copper	Stranded Silver Plated Copper	Silver Plated Copper	Stranded Silver Plated Copper
Cable Outer Diameter (nominal)	0.14 in (3.6 mm)	0.21 in (5.35 mm)	0.25 in (6.35mm)	0.4in (10.2 mm)
Cable Length (in)	N/A	N/A	N/A	N/A
Nominal Weight	0.38 Oz/ft	0.54 Oz/ft (50 g/m)	0.97 oz/ft (90g/m)	2.04 Oz/ft (190 g/m)
Flex Life Cycles (typical)	>15,000	>10,000	>15,000	>10,000
Connector Mating Cycles	>5,000	N/A	>5,000	N/A
Static. Bend Radius	0.55 in (14.0mm)	0.63 in (16.0mm)	1 in (25.8mm)	1.97 in (50.0mm)
Dynamic. Bend Radius	1.4 in (36mm)	1.97 in (50.0mm)	2 in (50.8mm)	3.94 in (100.0mm)
Crush Resistance	23 lbf/in (4 Kgf/cm)	80 lbf/in (14 Kgf/cm)	>305 lbf/in (54 kgf/cm)	440 lbf/in (78 Kgf/cm)
Operating Temperature Range	-67°F to 221°F (-55°C to 105°C)	-67°F to 221°F (-55°C to 105°C)	-67°F to 221°F (-55°C to 105°C)	-67°+121 °F (-55°+85°C)
ROH/Reach	Yes	Yes	Yes	Yes

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