

StabilityPlus™ vs. Stability™ Microwave/RF Cable Assemblies

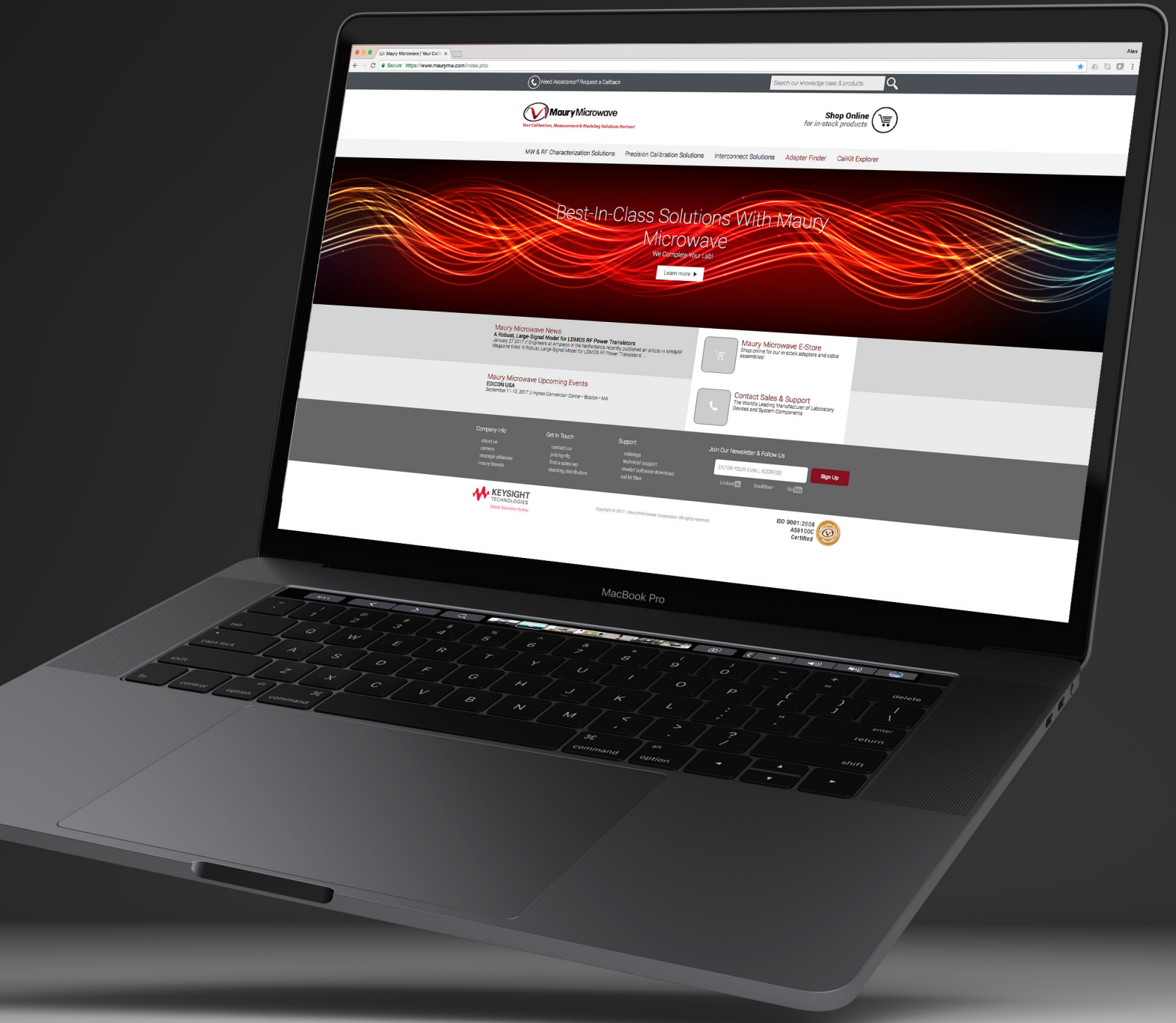
DATA SHEET / 2Z-008



Standard Cable Assembly Specifications—SP vs. SC

StabilityPlus™ and Stability™ Cable Type	SP-24		SC-24		SP-292		SC-292		SP-35		SC-35		SP-N		SC-N	
	Maximum Frequency	50.0 GHz		50.0 GHz		40.0 GHz		40.0 GHz		26.5 GHz		26.5 GHz		18.0 GHz		18.0 GHz
VSWR (typical)	1.30:1		1.30:1		1.25:1		1.25:1		1.25:1		1.25:1		1.25:1		1.25:1	
Typical Insertion Loss (cable only)	1.00 dB/ft	1.52 dB/ft	1.00 dB/ft	1.52 dB/ft	0.89 dB/ft	0.84 dB/ft	0.89 dB/ft	0.84 dB/ft	0.72 dB/ft	0.67 dB/ft	0.72 dB/ft	0.67 dB/ft	0.61 dB/ft	0.54 dB/ft	0.61 dB/ft	0.54 dB/ft
Impedance (nominal)	50 ohm		50 ohm		50 ohm		50 ohm		50 ohm		50 ohm		50 ohm		50 ohm	
Phase Stability vs Flexure (typical)	± 6°		± 6°		± 4.5°	± 5°	± 4.5°	± 5°	± 3°	± 3.5°	± 3°	± 3.5°	± 2°		± 2°	
Phase Stability vs Flexure (maximum)	± 10.5°	± 11.8°	± 10.5°	± 11.8°	± 8.5°	± 9.5°	± 8.5°	± 9.5°	± 5.5°	± 7°	± 5.5°	± 7°	± 4.2°	± 4.5°	± 4.2°	± 4.5°
Amplitude Stability vs Flexure (typical)	± 0.05 dB		± 0.05 dB		± 0.05 dB		± 0.05 dB		± 0.05 dB	± 0.02 dB	± 0.05 dB	± 0.02 dB	± 0.05 dB	± 0.015 dB	± 0.05 dB	± 0.015 dB
Amplitude Stability vs Flexure (maximum)	± 0.10 dB	± 0.08 dB	± 0.10 dB	± 0.08 dB	± 0.10 dB		± 0.10 dB		± 0.10 dB	± 0.04 dB	± 0.10 dB	± 0.04 dB	± 0.10 dB	± 0.02 dB	± 0.10 dB	± 0.02 dB
Phase Stability vs Temp	<4°/m/GHz (-55°+125°C)		<4°/m/GHz (-55°+125°C)		<4°/m/GHz (-55°+125°C)		<4°/m/GHz (-55°+125°C)		<4°/m/GHz (-55°+125°C)		<4°/m/GHz (-55°+125°C)		<4°/m/GHz (-55°+125°C)		<4°/m/GHz (-55°+125°C)	
Velocity of Propagation	76% (nominal)		76% (nominal)		76% (nominal)		76% (nominal)		76% (nominal)		76% (nominal)		76% (nominal)		76% (nominal)	
Shielding Effectiveness	>90 dB (DC - 18.0 GHz)		>90 dB (DC - 18.0 GHz)		>90 dB (DC - 18.0 GHz)		>90 dB (DC - 18.0 GHz)		>90 dB (DC - 18.0 GHz)		>90 dB (DC - 18.0 GHz)		>90 dB (DC - 18.0 GHz)		>90 dB (DC - 18.0 GHz)	
Time Delay (nominal)	1.34 ns/ft (4.5 ns/m)	1.3 ns/ft (4.4ns/m)	1.34 ns/ft (4.5 ns/m)	1.3 ns/ft (4.4ns/m)	1.34 ns/ft (4.5 ns/m)	1.3 ns/ft (4.4ns/m)	1.34 ns/ft (4.5 ns/m)	1.3 ns/ft (4.4ns/m)	1.34 ns/ft (4.5 ns/m)	1.3 ns/ft (4.4ns/m)	1.34 ns/ft (4.5 ns/m)	1.3 ns/ft (4.4ns/m)	1.34 ns/ft (4.5 ns/m)	1.3 ns/ft (4.4ns/m)	1.34 ns/ft (4.5 ns/m)	1.3 ns/ft (4.4ns/m)
Crush Resistance	>305 lbf/in (54 kgf/cm)	>245 lbf/in (44 kgf/cm)	>305 lbf/in (54 kgf/cm)	>245 lbf/in (44 kgf/cm)	>305 lbf/in (54 kgf/cm)	>245 lbf/in (44 kgf/cm)	>305 lbf/in (54 kgf/cm)	>245 lbf/in (44 kgf/cm)	>305 lbf/in (54 kgf/cm)	>245 lbf/in (44 kgf/cm)	>305 lbf/in (54 kgf/cm)	>245 lbf/in (44 kgf/cm)	>305 lbf/in (54 kgf/cm)	>245 lbf/in (44 kgf/cm)	>305 lbf/in (54 kgf/cm)	>245 lbf/in (44 kgf/cm)
Available Connectors	2.4mm M 2.4mm F		2.4mm M 2.4mm F		2.4mm M 2.4mm F 2.92mm M 2.92mm F	2.92mm M 2.92mm F	2.4mm M 2.4mm F 2.92mm M 2.92mm F	2.92mm M 2.92mm F	2.4mm M 2.4mm F 2.92mm M 2.92mm F 3.5mm M 3.5mm F	2.92mm M 2.92mm F 3.5mm M 3.5mm F	2.4mm M 2.4mm F 2.92mm M 2.92mm F 3.5mm M 3.5mm F	2.92mm M 2.92mm F 3.5mm M 3.5mm F	2.4mm M 2.4mm F 2.92mm M 2.92mm F 3.5mm M 3.5mm F Type N M	2.92mm M 2.92mm F 3.5mm M 3.5mm F Type N M	2.4mm M 2.4mm F 2.92mm M 2.92mm F 3.5mm M 3.5mm F Type N M	2.92mm M 2.92mm F 3.5mm M 3.5mm F Type N M

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CONTACT US:

W / maurymw.com

E / maury@maurymw.com

P / +1-909-987-4715

F / +1-909-987-1112

2900 Inland Empire Blvd

Ontario, CA 91764

