

562377 AND 562378

P SERIES CONTACTS WITH MOLEX TEMP FLEX CABLE AND SMA CONNECTOR

CHARACTERISTICS:

Material (Finish)			
	562377	562378	Specification
Center Contact	BeCu (Gold)	BeCu (Gold)	UNS-C17300 PER ASTM B196/B197 Finish IAW MIL-PRF-39012
Outer Contact	BeCu (Gold)	BeCu (Gold)	UNS-C17300 PER ASTM B196/B197 Finish IAW MIL-PRF-39012
Dielectric	PTFE	PTFE	MIL-P-19468
Solder Nut	BeCu (Gold)	BeCu (Gold)	UNS-C17300 PER ASTM B196/B197 Finish IAW MIL-PRF-39012
Electrical			
Impedance	50 Ohm	50 Ohm	-
Frequency range	DC - 10Ghz	DC - 10Ghz	MIL-PRF-39012
Dielectric Withstanding Voltage (DWV)	1000 VDC Min	1000 VDC Min	MIL-STD-202-301
Vibrations	< .1μs	< .1μs	MIL-STD-202-201
RF Leakage	>80dB	>80dB	MIL-PRF-39012
Contact Resistance	< 5mOhm	<5 mOhm	MIL-PRF-39012
Mechanical			
Cycle life	5,000	5,000	MIL-PRF-39012
Max Mating Force (Insertion/Withdrawal)	42oz / 15 oz	42oz / 15 oz	MIL-PRF-39012
Salt Atmosphere	-	-	MIL-STD 202-101
Moisture Resistance	-	-	MIL-STD-202-106
Thermal Shock	-	-	MIL-STD 202-107
Storage Temperature	-40 to 125 °C	-40 to 125 °C	MIL-STD-810
Operating Temperature	-40 to 100 °C	-40 to 100 °C	MIL-STD-810

S-PARAMETER TEST METHOD

MATERIALS:

- 1000671086 MOLEX TEMP FLEX CABLE
- SMA MALE CONNECTOR (AMPHENOL SV MICROWAVE PART # M39012/79B3101)
- P SERIES, CONTACT, FEMALE [RECEIVER] (MAC PANEL P/N: 562378)
- P SERIES, CONTACT, MALE [ITA] (MAC PANEL P/N: 562377)

TEST SETUP:

- PATCH CORDS FOR 12", 36", AND 72" LENGTHS WERE CREATED WITH SMA CONNECTORS ON ONE END AND MAC PANEL CONTACTS ON THE OTHER.
- TEST DATA TAKEN USING A VNA WHOSE PORTS WERE CALIBRATED AT THE SMA REFERENCE PLANE. CALIBRATION METHOD CONSISTED OF A 2 PORT SOLT CALIBRATION WITH 12 TERM ERROR CORRECTION. ADDITIONAL INFORMATION MAY BE PROVIDED BY MAC PANEL ENGINEERING UPON REQUEST.
- PATCH CORD NUMBERS (GENERATED USING EASY CABLE UTILITY) SHOWN BELOW:

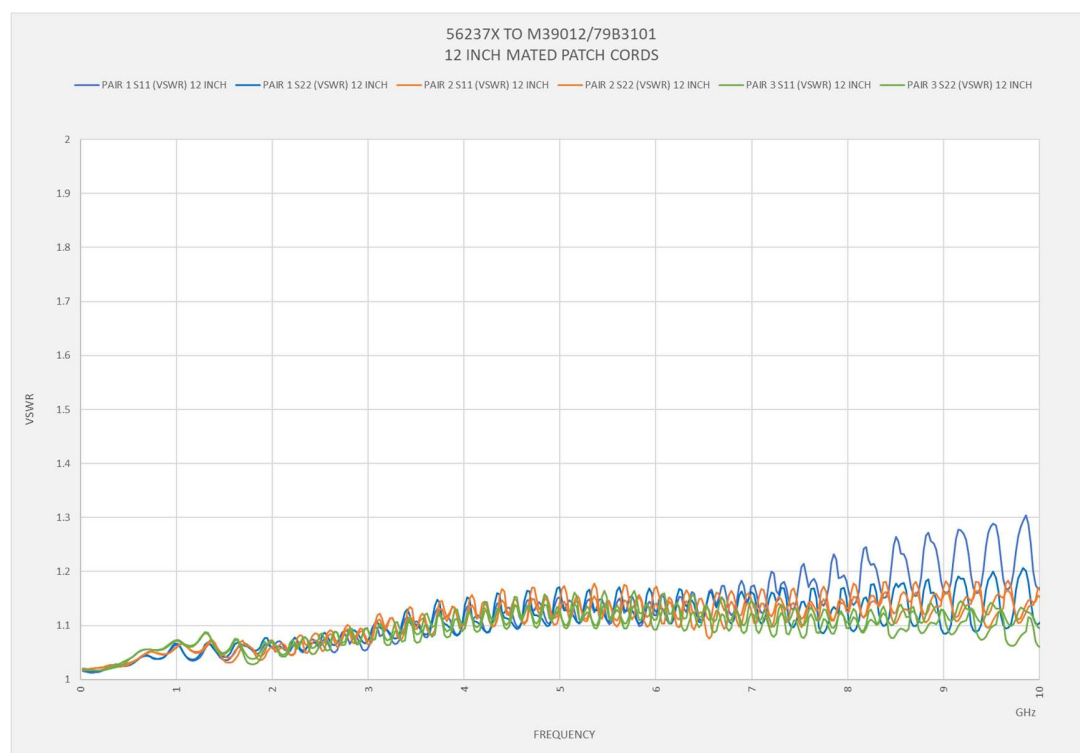
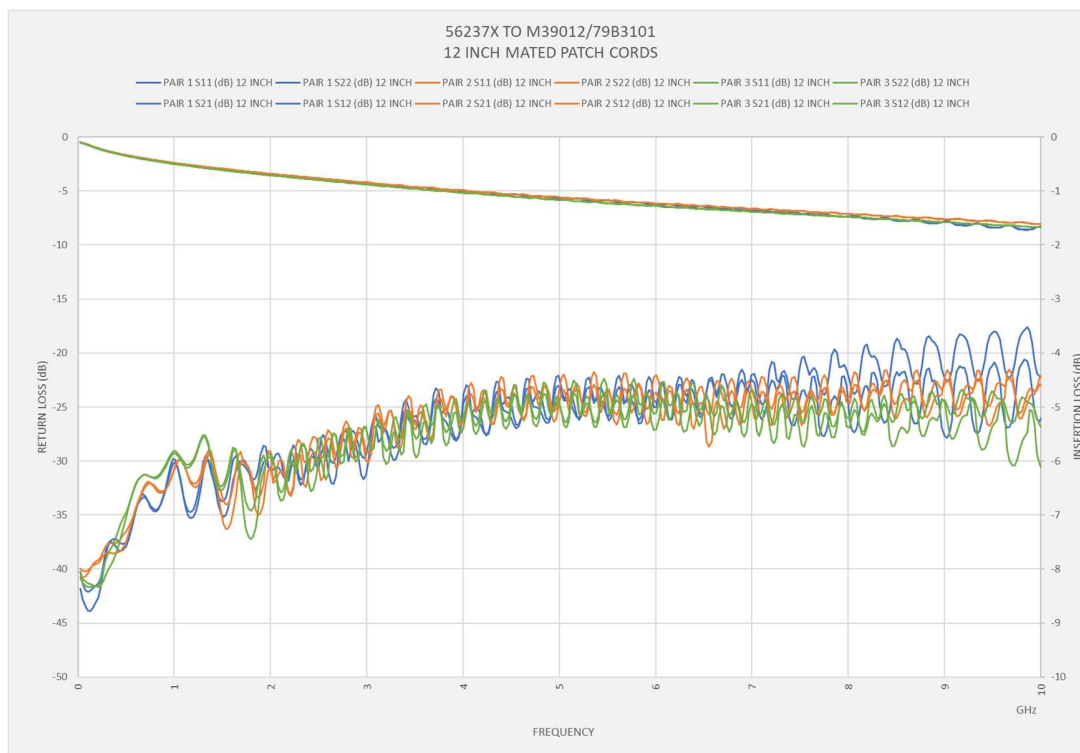
Contact	Cable	Patch Cord	Length	Qty	Patch Cord	Length	Qty	Patch Cord	Length	Qty
562377	TempFlex	PC 210 212 097 012	12"	3	PC 210 212 097 036	36"	3	PC 210 212 097 072	72"	3
562378	TempFlex	PC 211 212 097 012	12"	3	PC 211 212 097 036	36"	3	PC 211 212 097 072	72"	3



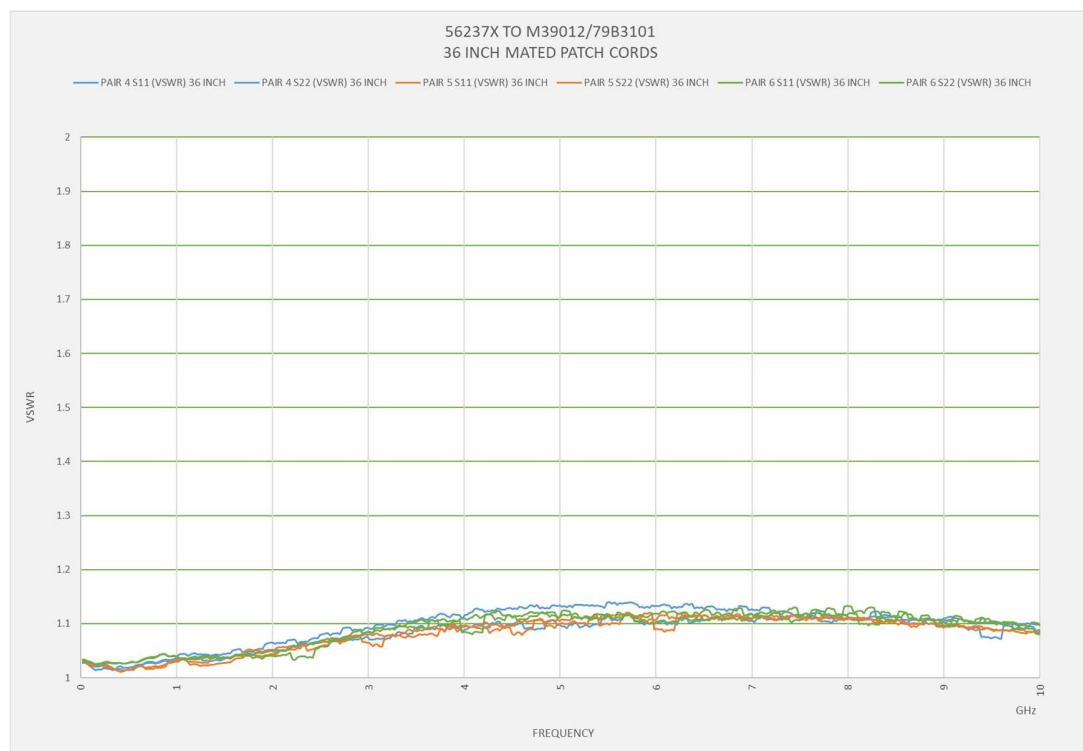
- DATA IS REPRESENTATIVE OF THE CUMULATIVE CONTRIBUTION OF TWICE THE CABLE LENGTH STATED, 2 SMA CABLE ADAPTERS, AND A MATED PAIR OF MAC PANEL CONTACTS.

RESULTS:

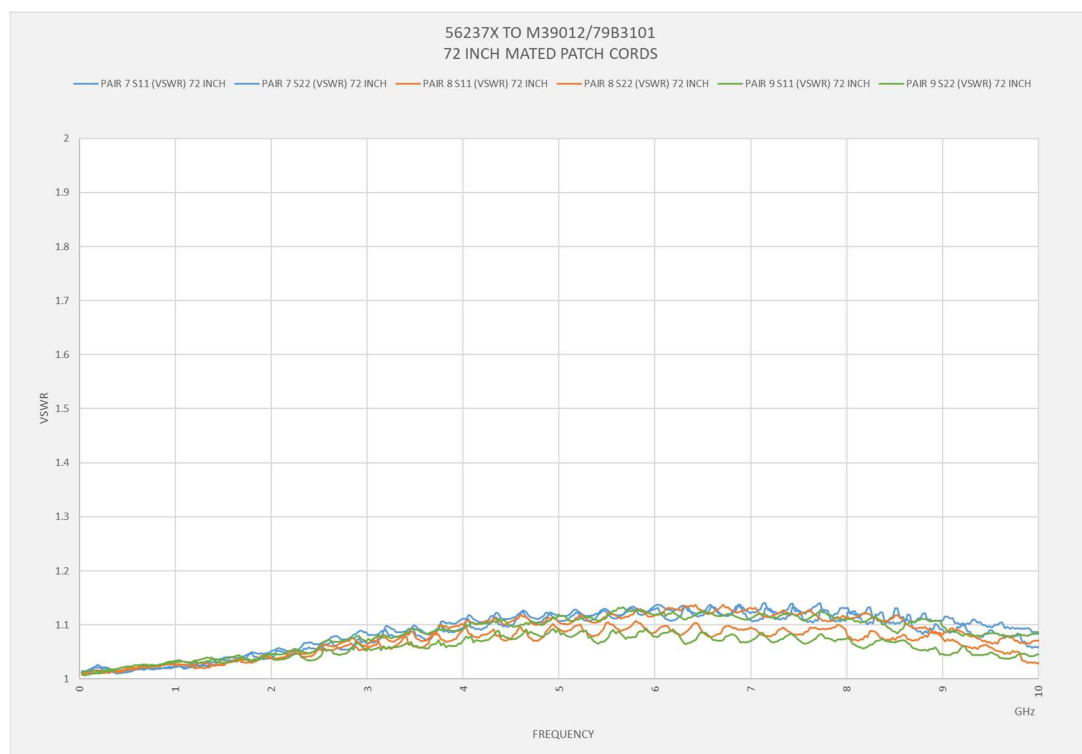
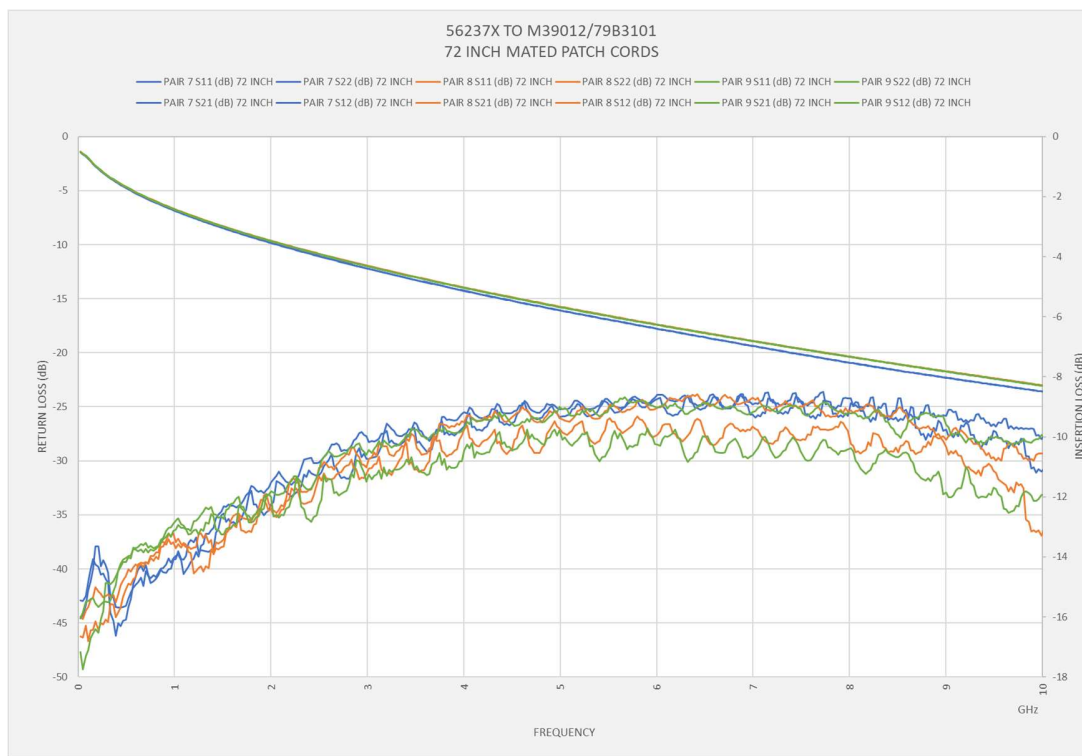
12 INCH CABLE ASSEMBLIES



36 INCH CABLE ASSEMBLIES



72 INCH CABLE ASSEMBLIES



562377 AND 562378

P SERIES CONTACTS WITH MOLEX TEMP FLEX CABLE AND 2.92mm CONNECTOR

CHARACTERISTICS:

Material (Finish)			
	562377	562378	Specification
Center Contact	BeCu (Gold)	BeCu (Gold)	UNS-C17300 PER ASTM B196/B197 Finish IAW MIL-PRF-39012
Outer Contact	BeCu (Gold)	BeCu (Gold)	UNS-C17300 PER ASTM B196/B197 Finish IAW MIL-PRF-39012
Dielectric	PTFE	PTFE	MIL-P-19468
Solder Nut	BeCu (Gold)	BeCu (Gold)	UNS-C17300 PER ASTM B196/B197 Finish IAW MIL-PRF-39012
Electrical			
Impedance	50 Ohm	50 Ohm	-
Frequency range	DC - 26Ghz	DC - 26Ghz	MIL-PRF-39012
Dielectric Withstanding Voltage (DWV)	1000 VDC Min	1000 VDC Min	MIL-STD-202-301
Vibrations	< .1μs	< .1μs	MIL-STD-202-201
RF Leakage	>80dB	>80dB	MIL-PRF-39012
Contact Resistance	< 5mOhm	<5 mOhm	MIL-PRF-39012
Mechanical			
Cycle life	5,000	5,000	MIL-PRF-39012
Max Mating Force (Insertion/Withdrawal)	42oz / 15 oz	42oz / 15 oz	MIL-PRF-39012
Salt Atmosphere	-	-	MIL-STD 202-101
Moisture Resistance	-	-	MIL-STD-202-106
Thermal Shock	-	-	MIL-STD 202-107
Storage Temperature	-40 to 125 °C	-40 to 125 °C	MIL-STD-810
Operating Temperature	-40 to 100 °C	-40 to 100 °C	MIL-STD-810

S-PARAMETER TEST METHOD

MATERIALS:

- 1000671086 MOLEX TEMP FLEX CABLE
- 2.92mm MALE CONNECTOR (AMPHENOL SV MICROWAVE PART # SF1521-60070)
- P SERIES, CONTACT, FEMALE [RECEIVER] (MAC PANEL P/N: 562378)
- P SERIES, CONTACT, MALE [ITA] (MAC PANEL P/N: 562377)

TEST SETUP:

- PATCH CORDS FOR 12", 36", AND 72" LENGTHS WERE CREATED WITH 2.92mm CONNECTORS ON ONE END AND MAC PANEL CONTACTS ON THE OTHER.
- TEST DATA TAKEN USING A VNA WHOSE PORTS WERE CALIBRATED AT THE 2.92mm REFERENCE PLANE. CALIBRATION METHOD CONSISTED OF A 2 PORT SOLT CALIBRATION WITH 12 TERM ERROR CORRECTION. ADDITIONAL INFORMATION MAY BE PROVIDED BY MAC PANEL ENGINEERING UPON REQUEST.
- PATCH CORD NUMBERS (GENERATED USING EASY CABLE UTILITY) SHOWN BELOW:

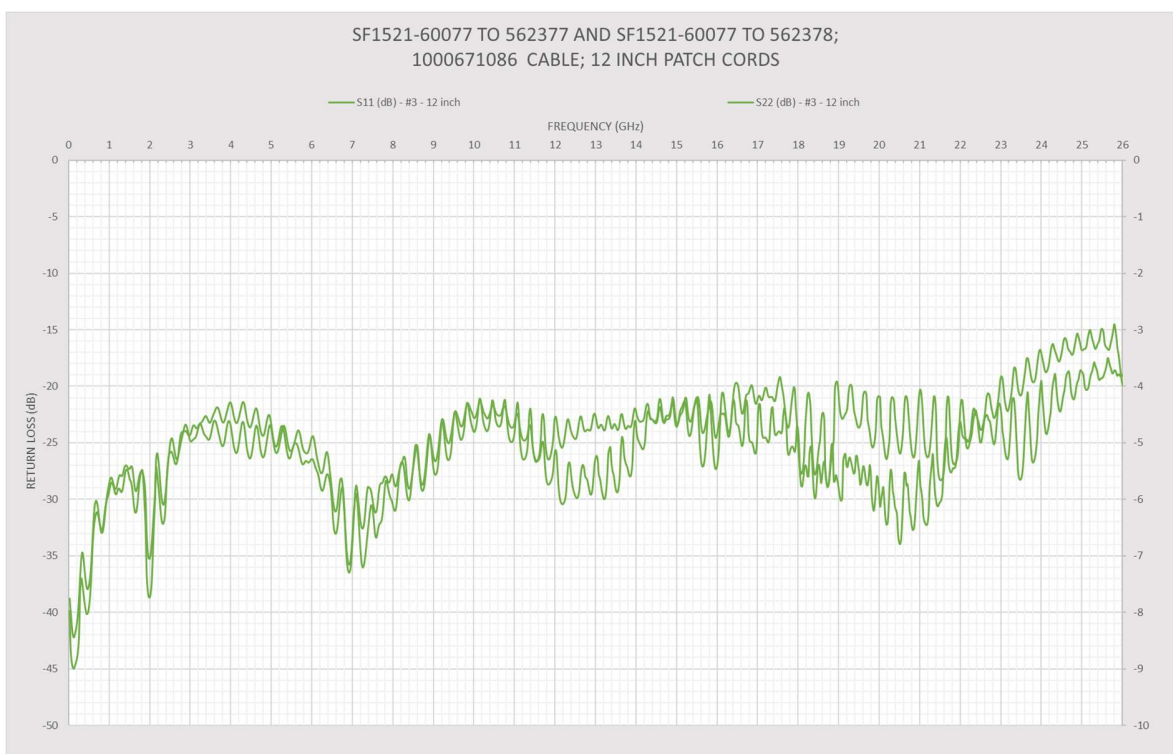
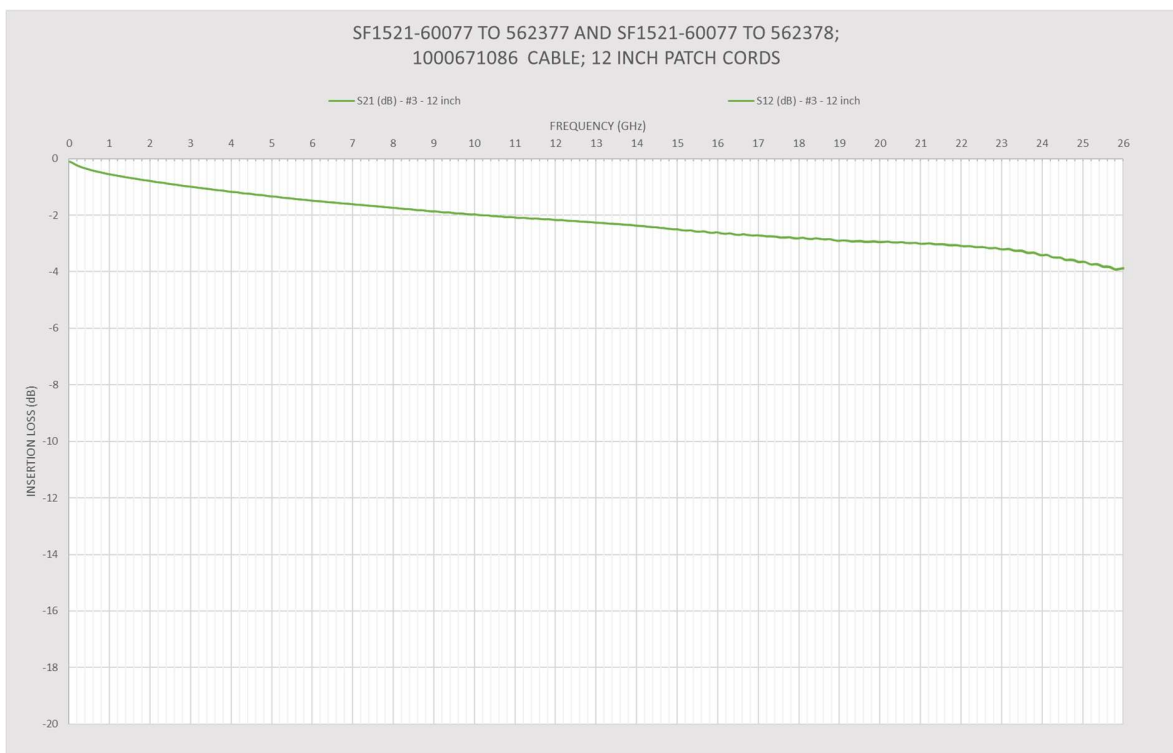
Contact	Cable	Patch Cord	Length	Qty	Patch Cord	Length	Qty	Patch Cord	Length	Qty
562377	TempFlex	PC 210 215 097 012	12"	3	PC 210 215 097 036	36"	3	PC 210 215 097 072	72"	3
562378	TempFlex	PC 211 215 097 012	12"	3	PC 211 215 097 036	36"	3	PC 211 215 097 072	72"	3

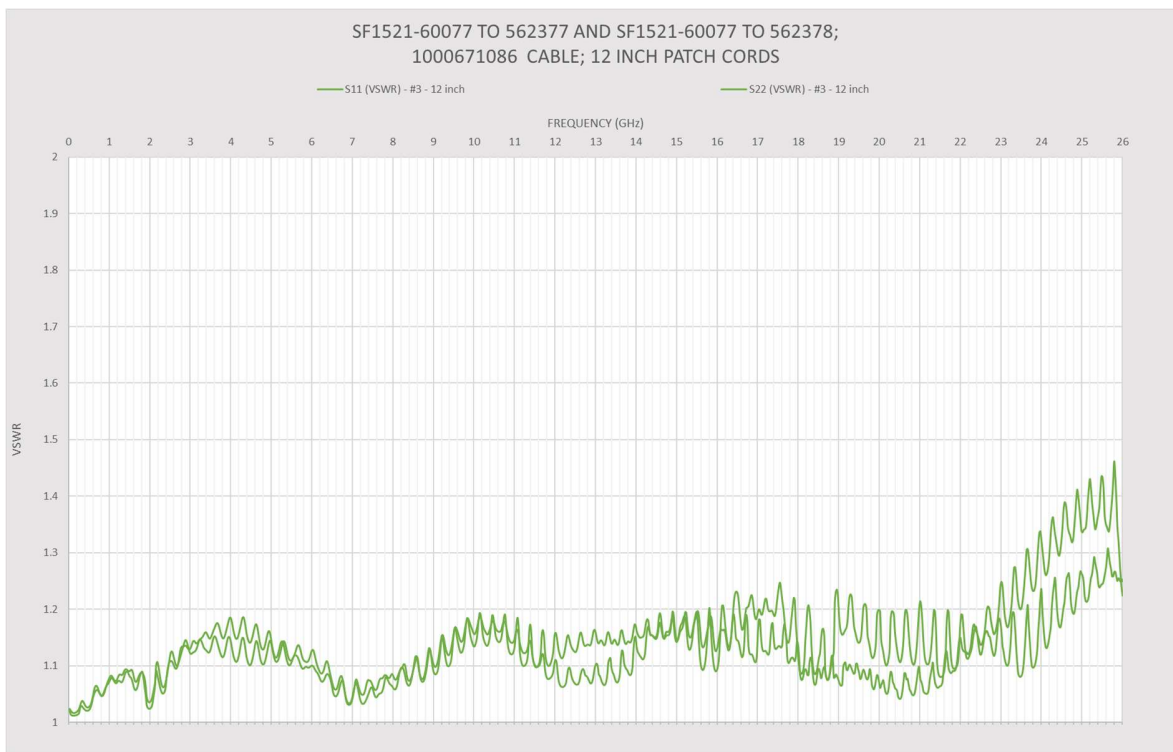


- DATA IS REPRESENTATIVE OF THE CUMULATIVE CONTRIBUTION OF TWICE THE CABLE LENGTH STATED, 2 x 2.92mm CABLE ADAPTERS, AND A MATED PAIR OF MAC PANEL CONTACTS.

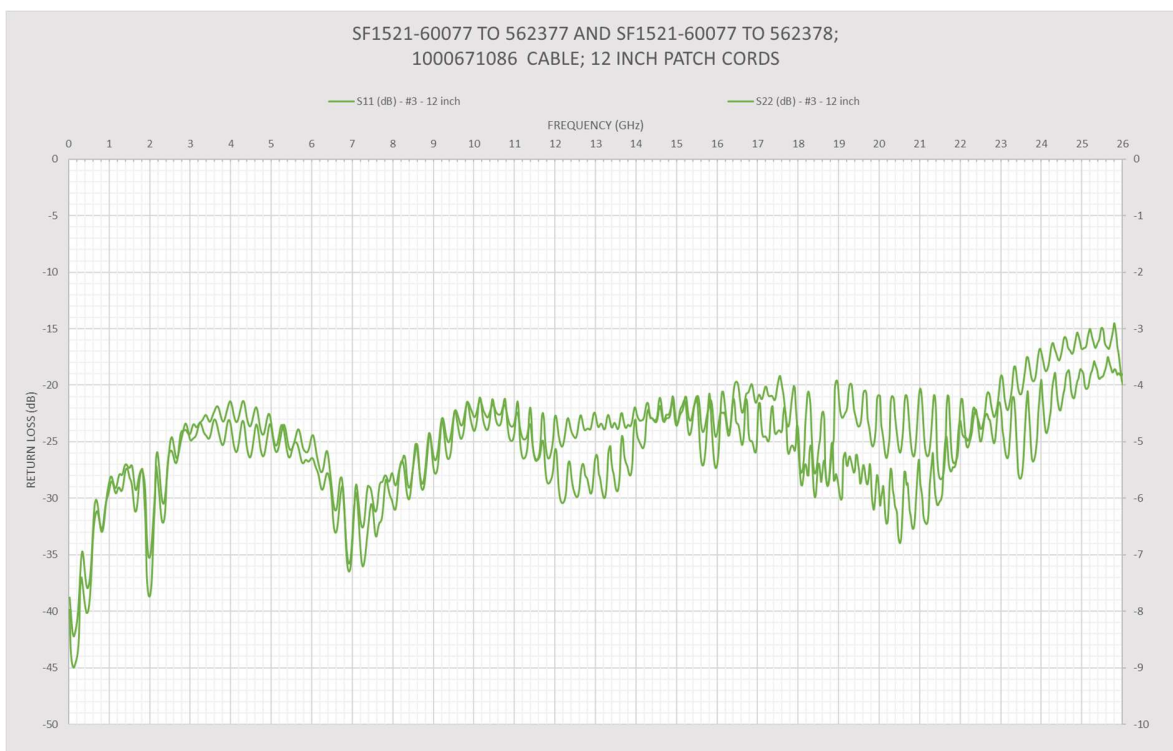
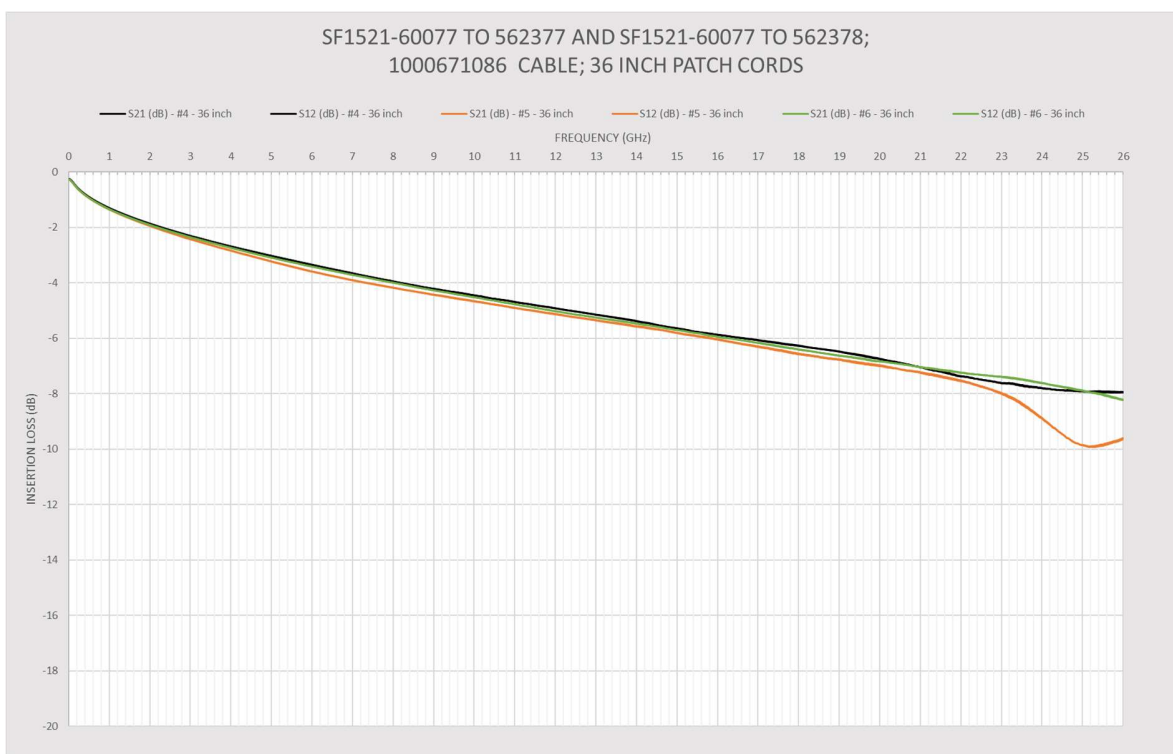
RESULTS:

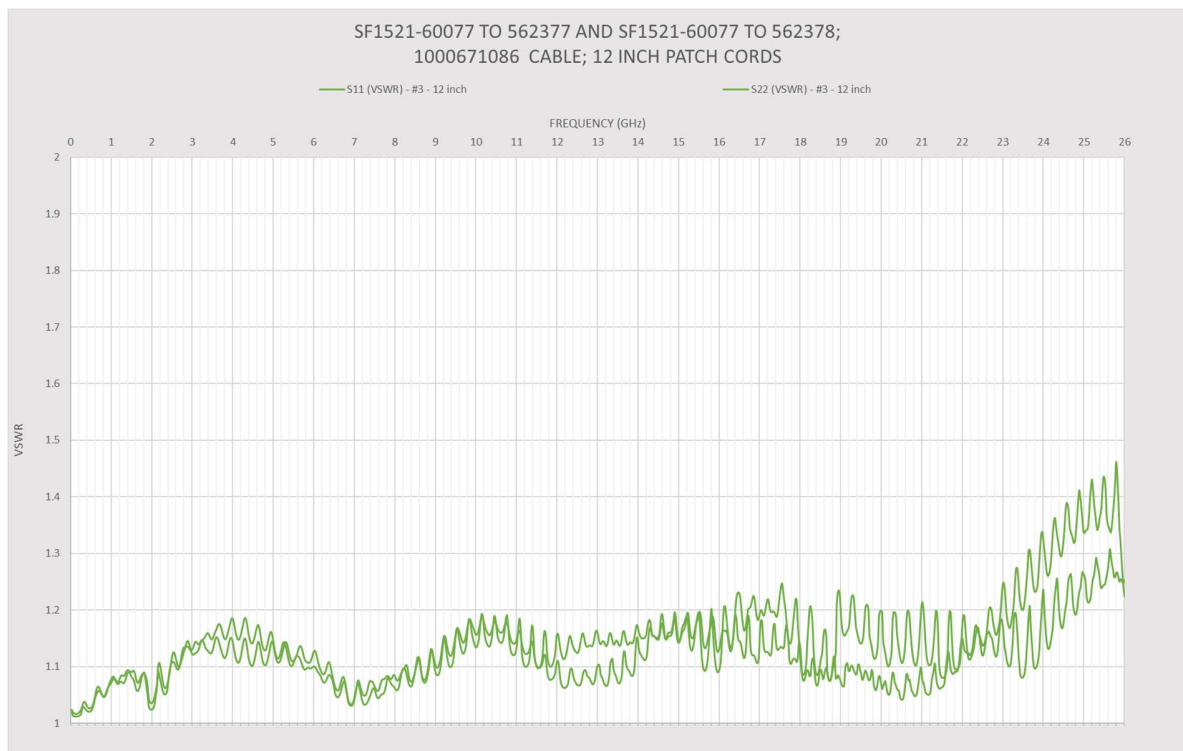
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