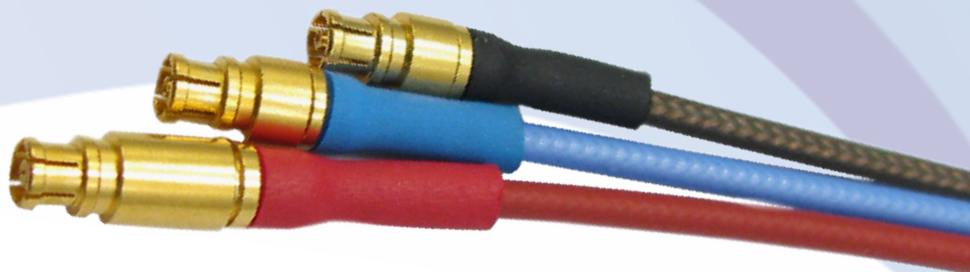


*Flex*tra[®]

The Most Flexible Small Diameter RF Cable on the Market



FEATURES

Standard and custom cable options, including SMA, BMA, 2.92 mm, SMP, SMPM, SMPS connectors

Three unique cable solutions available:

- Standard Flextra - Flexible replacement for Ø.047" semi-rigid
- Rapid Flextra - Lowest loss Ø.047" flex cable on the market
- Ultra Flextra - The most flexible Ø.047" flex cable on the market

APPLICATIONS

- Inside-the-box short cable runs where space is at a premium and tight bends are required
- High frequency applications (up to 100 GHz)
- Dynamic applications requiring low flex resistance

BENEFITS

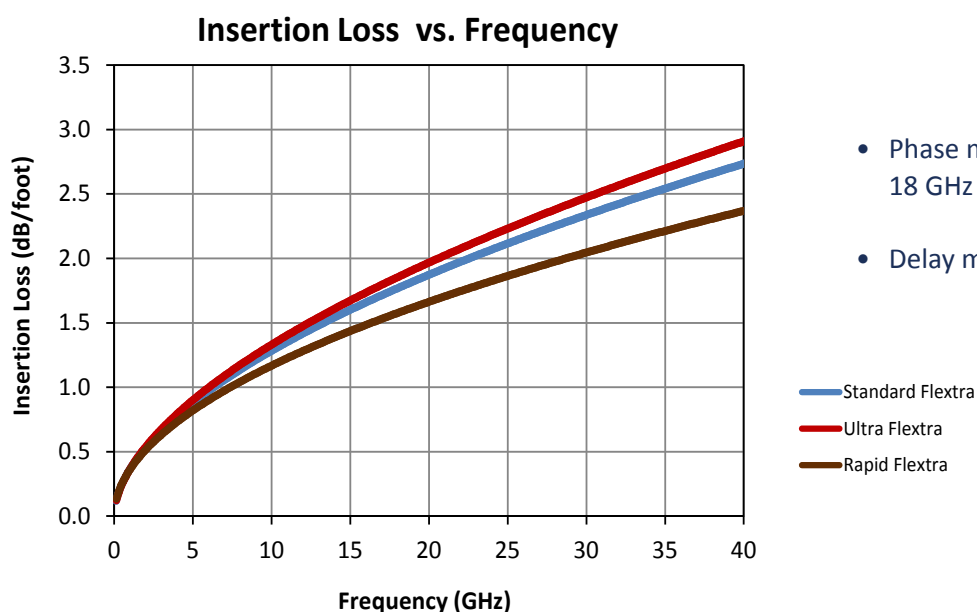
- The most flexible cable options available with proven performance at < 0.125" bend radius
- Low solder wicking and high flexibility allows for tight bends behind the cable ferrule
- High flex-life ensures excellent performance after repeated usage

SPECIFICATION	STANDARD	RAPID	ULTRA
Outer Diameter	.056"	.056"	.056"
Cut-Off Frequency (GHz)	108	144	130
Velocity of Propagation	70%	87%	85%
Min. Internal Bend Radius (Static)	.100"	.100"	.100"
Weight (1 lb/100 ft)	3.5	3.7	3.7
Jacket Material	FEP	FEP	POLYURETHANE
Center Conductor	Solid SPC	Solid SPC	Stranded SPC
Temperature Range	-65°C to +165°C	-65°C to +165°C	-45°C to +80°C
Shielding Effectiveness (dB, 0-18 GHz)	> 90 dB	> 90 dB	> 90 dB
Jacket Color	BLUE	BROWN	RED
SV Part Number	200-70-214	200-70-219	200-70-232

Flextra[®] **The Most Flexible Small Diameter RF Cable on the Market**

Ask Us About Our Cable Assembly Capabilities

RAW CABLE INSERTION LOSS



- Phase matching capability up to ± 1 degree at 18 GHz and up to ± 10 degrees at 40 GHz
- Delay matching capability up to ± 1 ps

CHARACTERISTICS AT A GLANCE

PROPERTY	STANDARD	RAPID	ULTRA
Flexibility	★	★★	★★★
Loss	★	★★★	★★
Durability	★★★	★★	★
Temperature Rating	★★★	★★★	★
Velocity of Propagation	★	★★★	★★

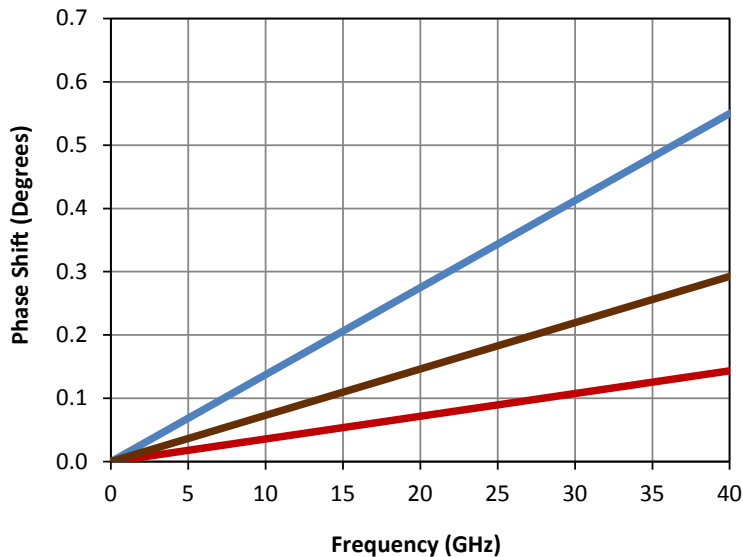
★ Good ★★ Better ★★★ Best

- Three cable options available for the ideal solution for any small diameter cable application
- All cables masked for control of solder wicking on braid
- Full environmental testing capabilities available

Excellent Electrical Performance under Extreme Flexure

PHASE STABLE

Phase Shift After Repeated Flexure

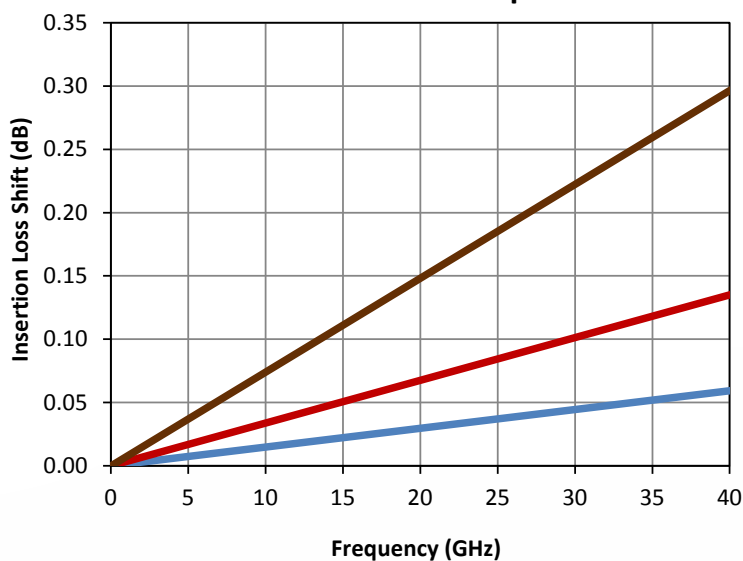


- Phase Shift measured on a 1 ft cable length after cable wrapped $\pm 90^\circ$ around a $\varnothing.200''$ diameter (.100" inside bend radius) mandrel 30 times
- Excellent Phase stability through 40 GHz
- Ideal for high flex environments where cable is subjected to repeated bending

— Standard Flextra
— Ultra Flextra
— Rapid Flextra

RELIABLE PERFORMANCE

Insertion Loss Shift After Repeated Flexure



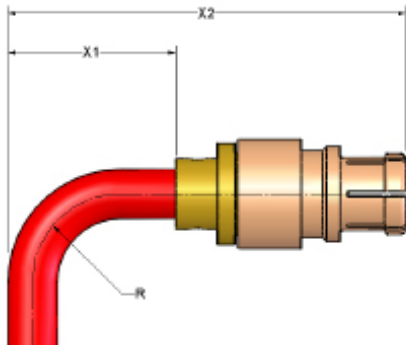
- Insertion Loss Shift measured on a 1 ft cable length after cable wrapped $\pm 90^\circ$ around a $\varnothing.200''$ diameter (.100" inside bend radius) mandrel 30 times
- Repeated bending has a minimal effect on measured insertion loss

— Standard Flextra
— Ultra Flextra
— Rapid Flextra

Flextra[®] **The Most Flexible Small Diameter RF Cable on the Market**

Industry Leading Bend Radius Behind the Ferrule

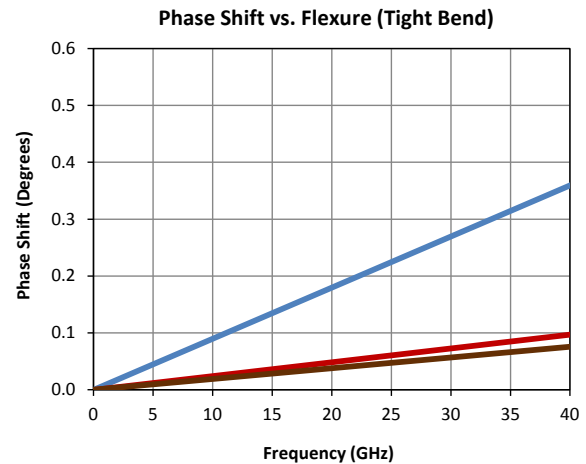
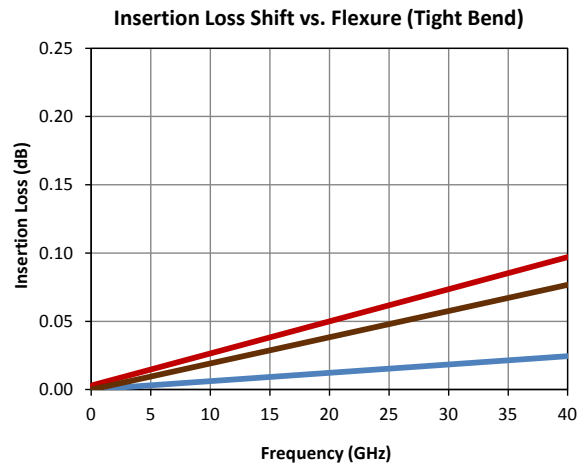
PERFORMANCE UNDER TIGHT BEND CONDITIONS



- Cable bent directly behind the ferrule (left). Phase and Insertion Loss Shift (graphs below) are measured relative to cable performance in the unstressed condition

- Values in table below measured for SMPM connector

R	X1	X2
0.128"	0.281"	0.541"



STANDARD CONNECTOR OPTIONS AND PART NUMBERS

CONNECTOR TYPE	STANDARD	RAPID	ULTRA
SMP Jack	1203-4000	1221-40045	1221-40046
SMP Right Angle Jack	1213-4007	1222-40050	1222-40028
SMP High Frequency Swept Right Angle Jack	1222-4004	1222-40049	1222-40042
SMPM Jack	3221-40007	3221-40018	3221-40025
SMPM Right Angle Jack	3269-4001	3222-40016	3222-40009
SMPM High Frequency Swept Right Angle Jack	3222-40006	3222-40014	3222-40015
SMPS Jack	3821-40001	3821-40007	3821-40008
SMPS Right Angle Jack	3822-40001	3822-40004	3822-40005



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Amphenol:](#)

[1203-4000](#) [3221-40018](#)