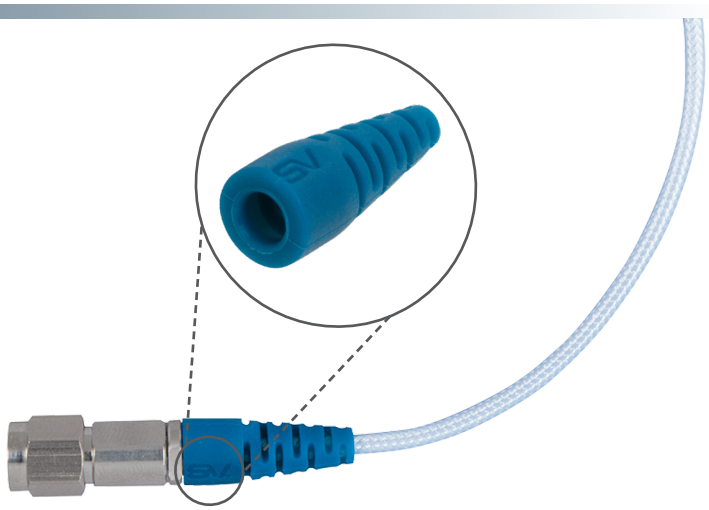
RF Cable Assemblies with Strain Relief Boot

Features & Benefits

- Molded boot provides exceptional strain relief for Ø.047” and Ø.087” Low Loss cable assemblies
- Improved durability and cable life
- Ergonomic finger grip



Applications

- Test and Instrumentation
- Harsh Environments
- Heavy Use Environments

Strain Relief Cable Assemblies protect from Overbending

SV Microwave’s strain relief boot protects the cable from overbending during frequent handling, mating/demating, and maneuvering. The unique design of the molded boot not only moves the cable bend away from the connection to the connector, but also provides a gradual bend. This protects the cable braid from damage and kinks, that cause poor RF performance and expensive rework.

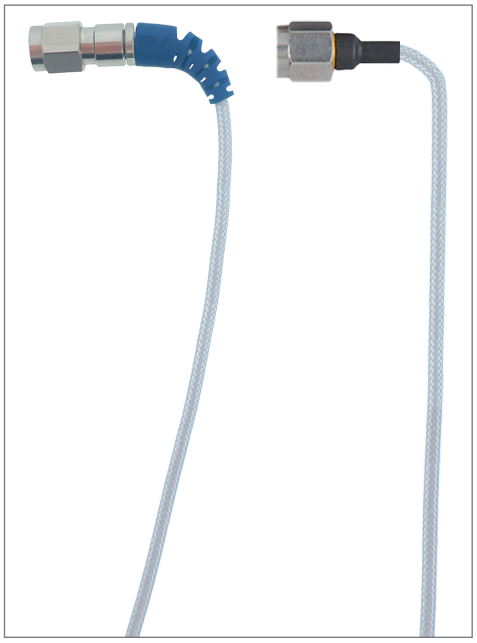


Figure 1: SV .087-LL Cable Assembly with strain relief boot vs. standard shrink tubing

Standard Cable Assembly Configurations

P/N	Description
7033-0024	1.85mm Male to 1.85mm Male 12” Strain Relief Cable Assembly for .047 Cable
7016-0121	2.4mm Male to 2.4mm Male 12” Strain Relief Cable Assembly for .047 Cable
7016-0133	2.4mm Male to 2.4mm Male 12” Low Loss Strain Relief Cable Assembly for .087-LL Cable
7015-1143	2.92mm Male to 2.92mm Male 12” Low Loss Strain Relief Cable Assembly for .087-LL Cable
7029-3821	SMA Male to SMA Male 12” Low Loss Strain Relief Cable Assembly for .087-LL Cable
7015-1085	2.92mm Male to 2.92mm Male 12” Strain Relief Cable Assembly for .047 Cable
7029-3649	SMA Male to SMA Male 12” Strain Relief Relief Cable Assembly for .047 Cable

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Electrical Performance Data

The following plots compare SV Ø.087-LL Cable with the Strain Relief Boot and with Standard Shrink Tubing. In Figures 2, 3 and 4, the cable assemblies are bent 90° repeatedly (25 times) behind the connector. The data shows that the strain relief boot minimizes the phase change and maintains RF performance for VSWR.

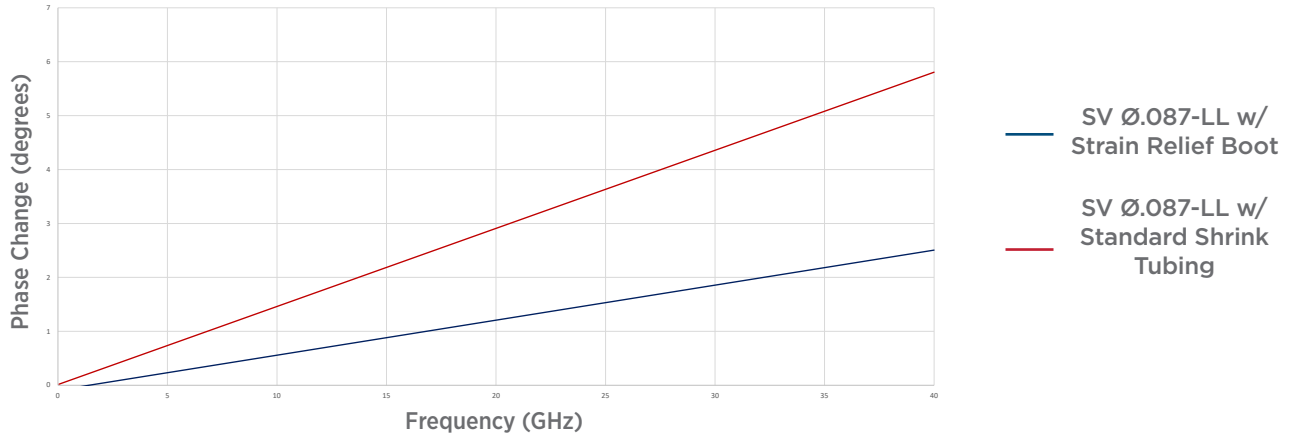

Figure 2: Phase Change After 25 Bends at 90° Behind the Connector

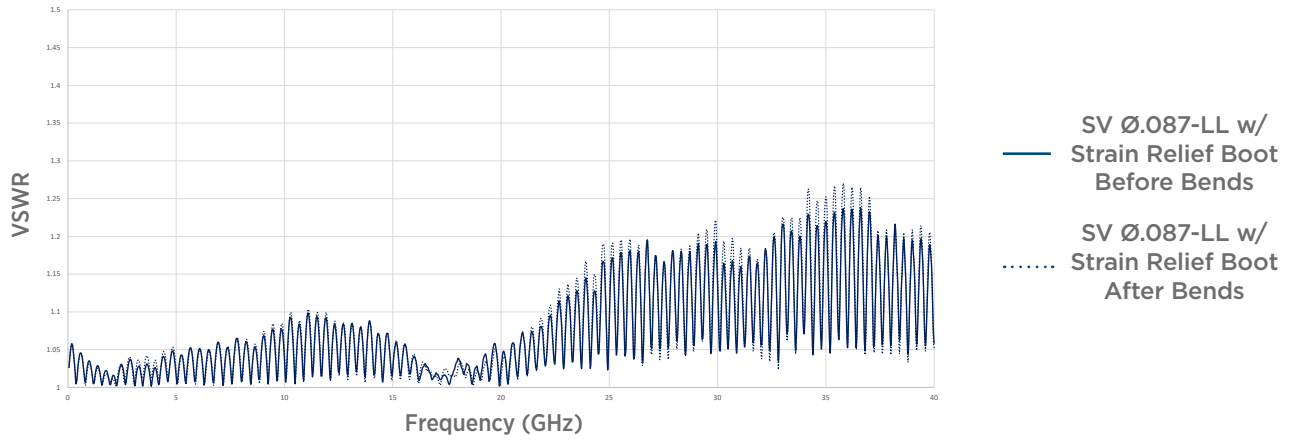

Figure 3: VSWR Before and After 25 90° Bends Behind the Connector w/ Strain Relief Boot

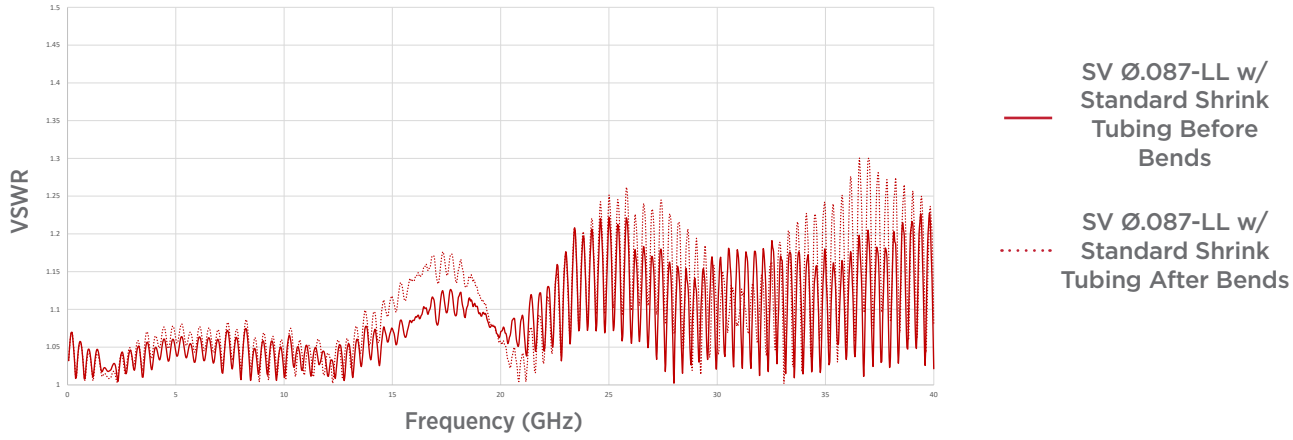

Figure 4: VSWR Before and After 25 90° Bends Behind the Connector w/ Standard Shrink Tubing

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