

# Rosenberger

North America

## Semi-Rigid Cable Assembly Processing Capabilities

Rosenberger North America can process many different varieties, styles and bend configurations of semi-rigid cable assemblies, including tightly controlled phase matched assemblies. Using state-of-the-art bending and measurement technologies enables Rosenberger's *Lithos*<sup>™</sup> semi-rigid production technology to be superior and industry leading.



**RosenbergerLithos**<sup>™</sup> - high performance for semi-rigid cable assemblies

# Semi-Rigid Cable Assembly Processing Capabilities

Using our *Lithos*™ semi-rigid manufacturing technology we can:

- Manufacture multi-radius (up to six, depending on the specific assembly and geometry).
- Utilize precision measuring equipment to ensure geometric tolerance, accuracy and consistency.
- Produce in high volume (10,000's/month).
- Ensure specific electrical and mechanical characteristics are achieved, through environmental chamber cycling.
- Phase-match in pairs, absolute or in lots.
- Develop specific tooling to enable complex, yet repeatable bend geometries.
- Develop and route cables using “turn-key” design services when customer supplied cabinet/enclosure drawings are made available to our engineering team.

## Samples and Prototyping

Sample and prototype semi-rigid cable assemblies can be manufactured on demand, typically within two to four weeks, and at little to no charge. Before the sampling of semi-rigid cable assemblies can begin, customer documentation is reviewed and a quote is supplied to the customer.

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### Standard Semi-Rigid Bend Radiuses (others upon request):

Cable Type:	Radiuses (mm):
.25" (6.35mm)	9.53, 12.7
.141" (3.6mm)	6.35, 7.92, 9.53 & 12.7
.118" (3mm)	6.35
.086" (2.2mm)	4.39, 4.77 6.35, 7.92 & 12.7
.073" (1.85mm)	12.7 3.96, 4.39 & 6.35

### Applications of Semi-Rigid cable:

- Communications systems.
- Custom test & measurement systems.
- Defense & Aerospace.
- Medical Magnetic Resonance Imaging (MRI systems).
- High-reliability coaxial interconnect.

- Sizes of semi-rigid cable processed (typical, others upon request): .020", .047", .073", .086", .118", .141" and .25".
- Types of semi-rigid processed: Copper jacket, tin-plated copper, tin-plated aluminum in standard, and low-loss dielectric styles.
- Phase-matched available to  $< \pm 1$  picosecond, geometry specific.

## Requirements for quotation & prototyping:

At least one of the following:

- A two-dimensional drawing
- A solid model in .stp format
- Bend table data
- Reference geometry
- Standard bend radiuses
- Non-Refundable Engineering (NRE) may apply if drawings need to be prepared - please consult factory

And, projected annual usage (quantity), material requirements, and any specific component requirements. Complete box builds will require layout information supplied to the factory.

**Pride in Precision.**



### **Rosenberger**

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