

## Astrolab minibend R

### High performance, low profile, ruggedized



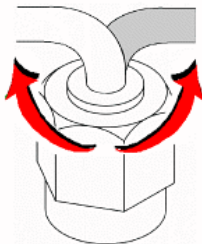
The 'ruggedized' version of the original minibend®

### **Product Description**

minibend® R is designed for use in complex, congested environments where higher cable retention force is required. minibend® R's pull strength is more than 70% greater than standard minibend®. minibend® R when installed and bent at the minimum bend radius will tolerate multiple 90° rotations at the cable/connector junction. The 'R' ruggedization can be added to any minibend® connector style. All materials used in minibend® R assemblies meet or exceed NASA TML and CVCM requirements for use in spacecraft applications.

### **Product Features**

- Precision stainless steel SMA plug connectors (Patented - US Patent Office)
- Connector pull strength 70% stronger than standard minibend and torque resistant utilizing minibend R technology (Patented - US Patent Office)
- Stock delivery on standard lengths
- Eliminates need for costly right angle connectors
- Triple shielded for high isolation
- Frequency range up to 24 GHz
- 99.9% lead free



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Note: The 'R' ruggedization can be added to any minibend connector

### **Environmental Limits**

Temperature Range: -60°C to +165°C

Thermal Shock: per Mil-Std-202, Method 107, Test Condition F

Vibration: per Mil-Std-202, Method 214, Test Condition K1 (46.3 Grams)

### **Phase Versus Flexure Reference Data**

Astrolab performed phase tests on hundreds of minibend® cable assemblies. Following are two standard Astrolab tests with the corresponding data. In test one minibend® R-6 assembly's were flexed 90° in a 0.25 inch radius directly behind the connector. In test two, minibend® R-16 assembly's were flexed 180° with a 0.4 inch radius in the middle. Typical data is listed here:

	<b>TEST ONE</b>	<b>TEST TWO</b>
24 GHz.	1.4°	3.9°
18 GHz.	1.2°	2.9°
12.4 GHz.	0.9°	1.8°
1 GHz.	0.1°	0.2°

