

Minibend CTR

Phase Invariant Cable Assemblies



The Minibend CTR (.086") Phase Invariant cables are developed for phase critical applications requiring precision electrical length connectivity.

- Excellent phase and insertion loss stability over temperature (-55 to +125 °C)
Minibend CTR: < 300 ppm absolute phase change
- Outstanding phase stability versus bending
Phase vs flexure of 0.1°/GHz
- Revolutionary Minibend bend-to-the-end flexibility (applicable right behind the connector)
Minibend CTR: 5 mm minimum bend radius



Phase Invariant Cable Assemblies

The Minibend CTR family combines the industry-renowned flexibility of HUBER+SUHNER Astrolab's bend-to-the-end connector termination technology with industry leading phase vs. temperature performance. Thus, it creates a stable, reliable, MIL-DTL-17 qualified interconnect solution to satisfy a huge range of customer applications where phase stability is key. The broad selection of available connector interfaces ensures a large variety of configurations to meet the unique requirements of our customers..

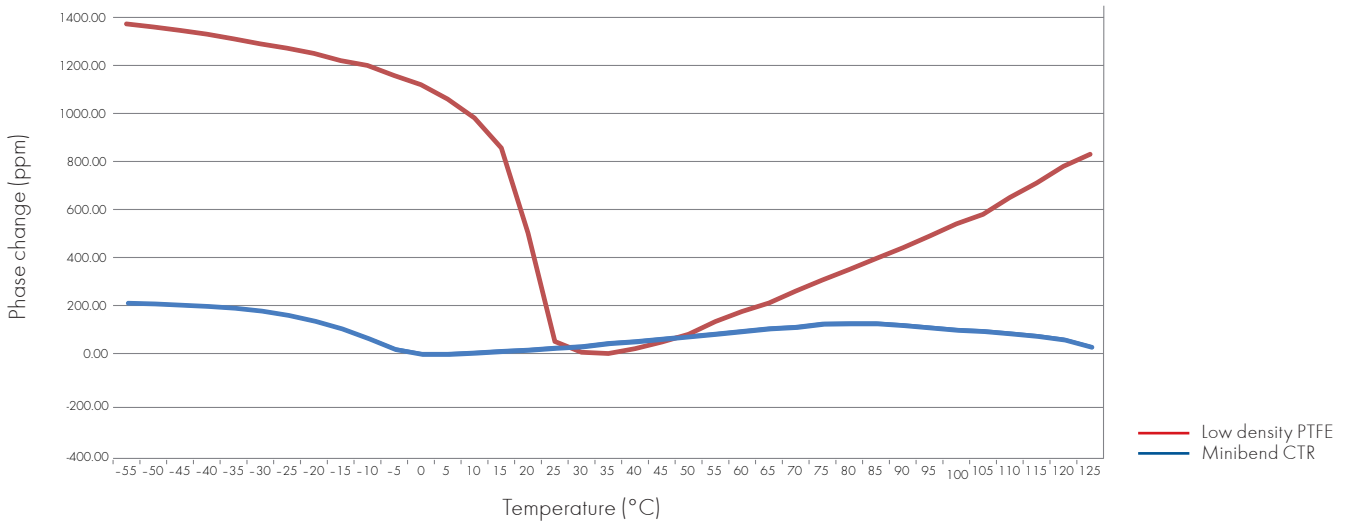
Features

- Flat phase change over temperature
- Outstanding return loss performance

Benefits

- Increased system accuracy over temperature change
- Higher reliability due to solderless junctions

Phase stability versus temperature



Max. Insertion loss in dB/m:

	Minibend CTR (32381E)
12 GHz	3.03
18 GHz	3.80
26 GHz	4.68
40 GHz	6.02

Phase stability versus bending

Frequency	Test one*	Test two**
	Minibend CTR	Minibend CTR
24.0 GHz	1.0°	3.7°
1.0 GHz	0.1°	0.1°

* Test one: 152 mm long assemblies were flexed 90 degrees in a 6.35 mm radius directly behind the connector.

** Test two: 406 mm long assemblies were flexed 180 degrees with a 10.16 mm radius in the middle.

Portfolio

Description	Connector 1	Connector 2	Frequency range
Minibend CTR	SMA	SMA	DC - 26 GHz
Minibend CTKR / Mini 141 CTK	SK	SK	DC - 40 GHz
Minibend CT2SR / Mini141 CT2S	SMP	SMP	DC - 40 GHz

More option on request