

Minibend CTR Mini 141 CT

Phase Invariant Cable Assemblies



The Minibend CTR (.086") and Mini141 CT (.141") 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
Mini141 CT: < 500 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
Mini141 CT: 8.4 mm minimum bend radius

Phase Invariant Cable Assemblies

The Minibend CTR / Mini141 CT 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..

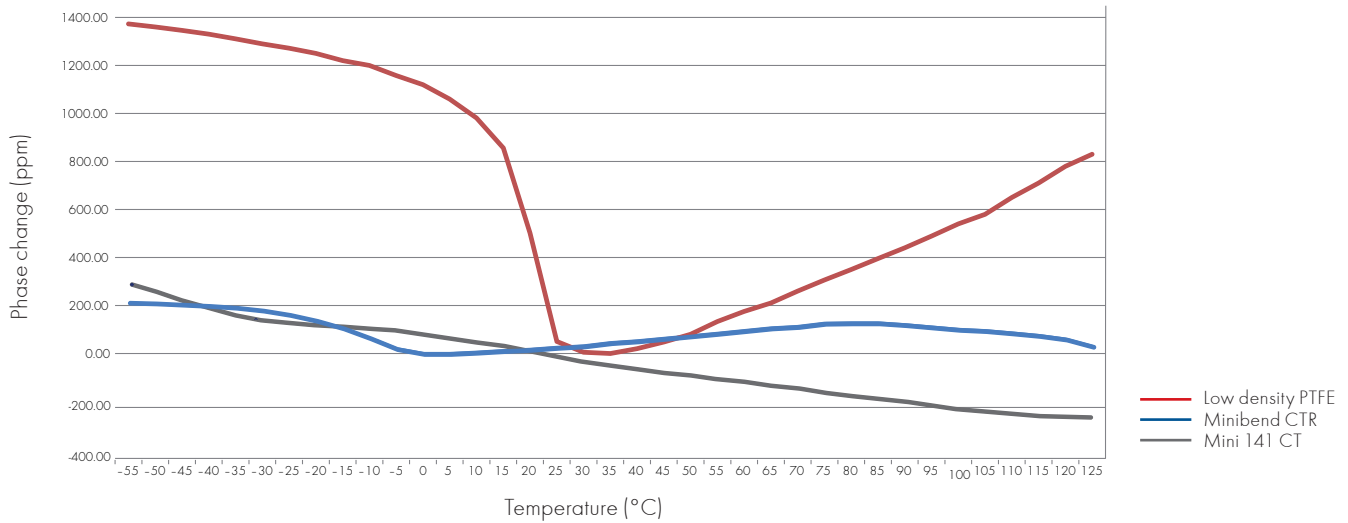
Features

- 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:

	Mini141 CT (32322E)	Minibend CTR (32381E)
12 GHz	1.65	3.03
18 GHz	2.12	3.80
26 GHz	2.66	4.68
40 GHz	3.52	6.02

Phase stability versus bending

Frequency	Test one*	Test two**
	Minibend CTR / Mini141 CT	Minibend CTR / Mini141 CT
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 / Mini 141 CT	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 options on request.

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HUBER+SUHNER is certified according to EN(AS) 9100, ISO 9001, ISO 14001, ISO/TS 16949 and IRIS.

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