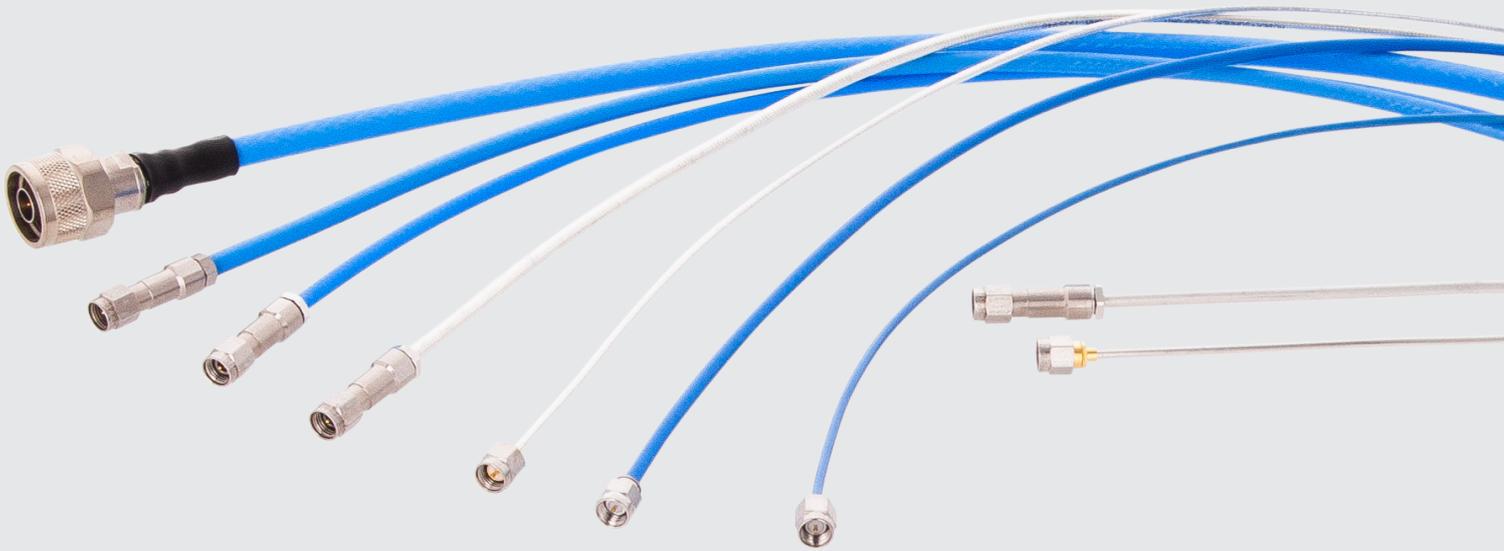


Phase invariant cable assemblies

CT product family

Edition 2019/09



Phase invariant cable assemblies

The HUBER+SUHNER CT product family is developed for phase critical applications requiring precision electrical length connectivity. Thus, it creates a stable and reliable interconnect solution to satisfy a huge range of customer applications where phase stability is key.

These products provide the industry leading phase vs. temperature performance, as well as a unique range of cable constructions to fulfil any customer demands.

Depending on the application, there is a broad variety of products lines available:

- Sucoform CT Hand formable, form stable cable with tin soaked braid outer conductor
- Semi-rigid CT Form stable cable with tubular, tin plated outer conductor
- Minibend CT Flexible cable assembly with bend-to-the-end connector termination
- Multiflex CT Flexible alternative to Semi-Rigid microwave cables

CT Portfolio Overview

| | 0.086" | 0.141" | 0.210" | 0.318" |
|------------|--------|--------|--------|--------|
| Semi-rigid | ✓ | ✓ | | |
| Sucoform | ✓ | ✓ | | |
| Minibend | ✓ | ✓ | | |
| Multiflex | | ✓ | ✓ | ✓ |

Features

- Excellent phase and insertion loss stability over temperature
- Superior phase stability versus bending
- Outstanding return loss and shielding effectiveness performance
- Easy installation
- Small bending radii

Benefits

- Increased system accuracy over temperature change
- Stable system performance over multiple temperature cycles
- Product reliability - meeting the specified values not only at one single temperature



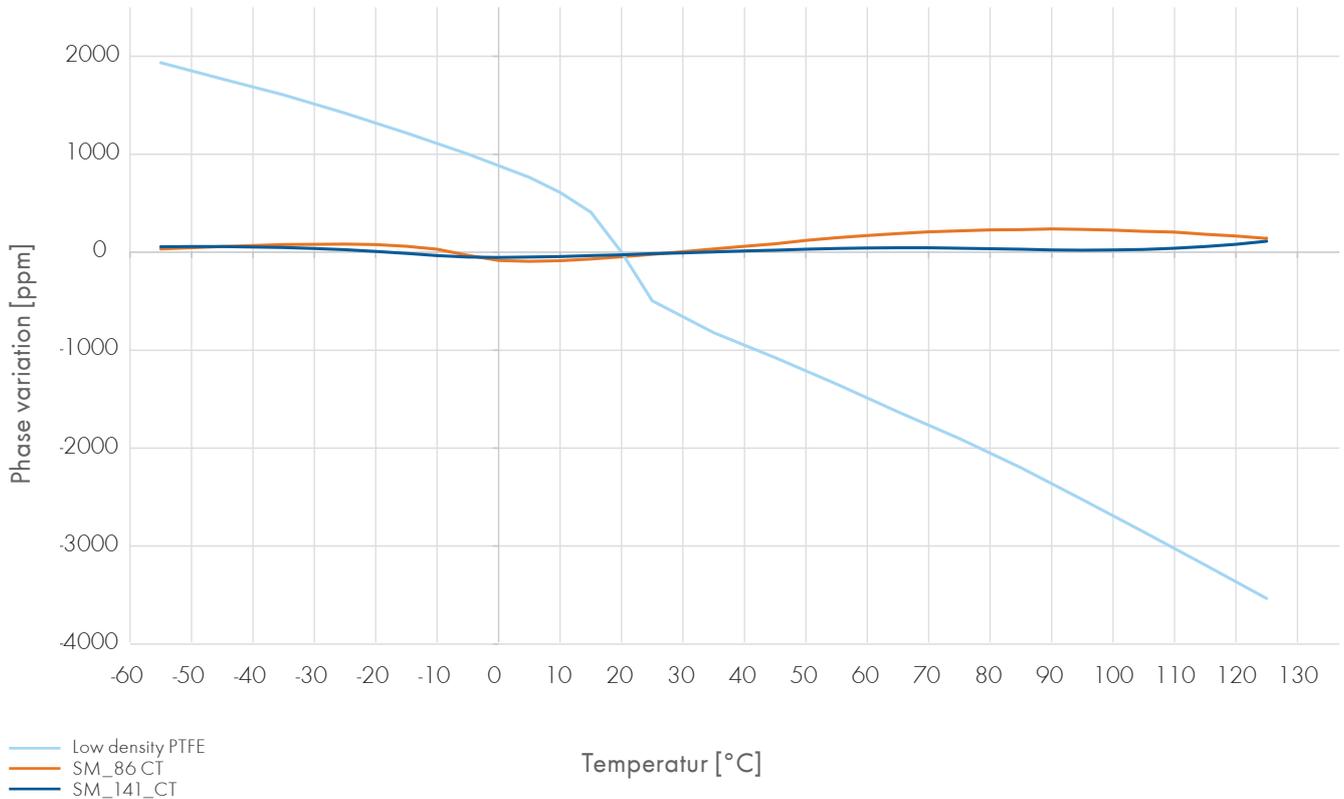
Sucoform CT



Benefits

- Static applications
- Frequency range up to 40GHz
- Space and time saving routing
- Quick and easy assembling

Phase variation vs. temperature



Product Overview

| Description | Frequency range | Insertion loss @18GHz | Outer diameter | Connectors |
|-----------------|-----------------|-----------------------|----------------|---------------|
| Sucoform_86_CT | 40 GHz | 3.18 dB/m | 2.15 mm | SK, SMA, MMPX |
| Sucoform_141_CT | 30 GHz | 1.93 dB/m | 3.58 mm | SK, SMA, BMA |

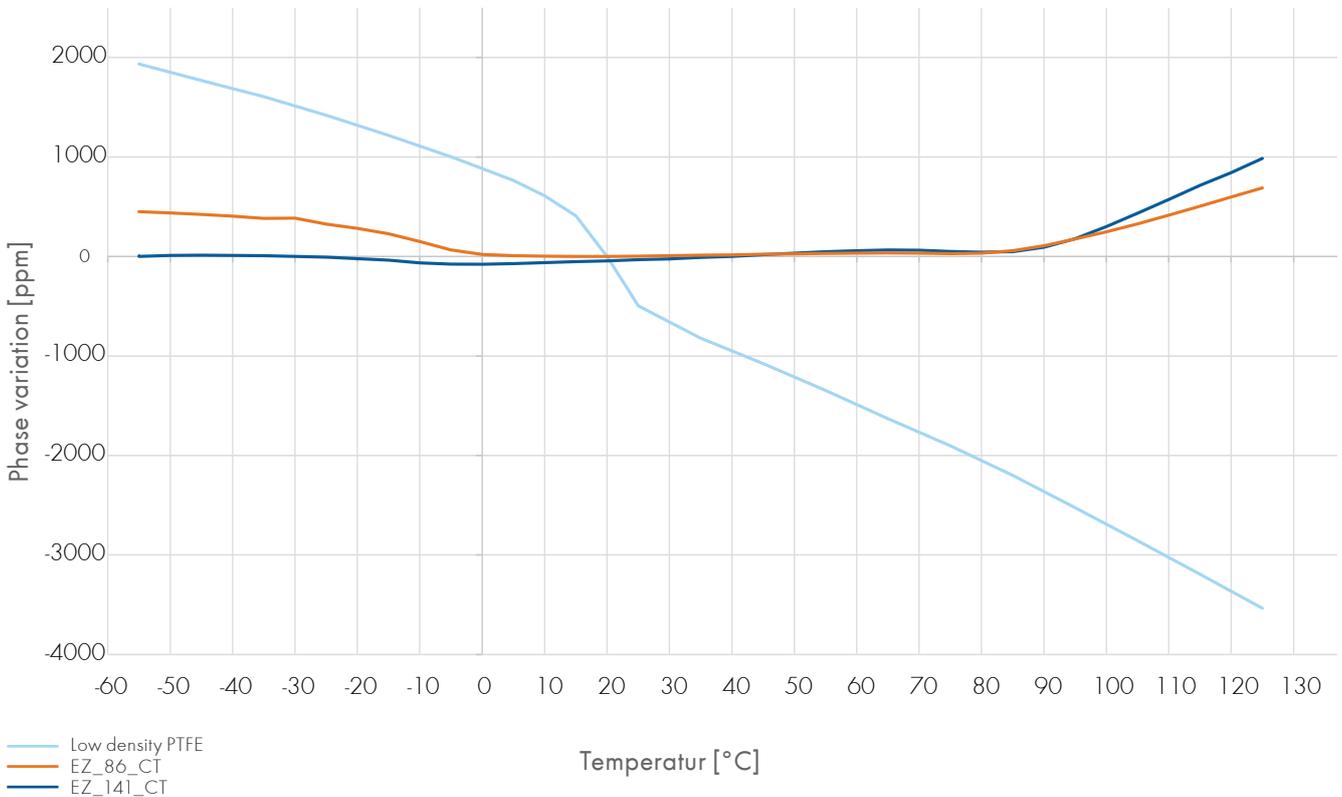
Semi-rigid CT



Benefits

- Static applications
- Frequency range up to 40GHz
- Easy to form, strip and solder
- Space and time saving installation

Phase variation vs. temperature



Product Overview

| Description | Frequency range | Insertion loss @18GHz | Outer diameter | Connectors |
|-------------|-----------------|-----------------------|----------------|---------------|
| EZ_86_CT | 40 GHz | 3.18 dB/m | 2.2 mm | SK, SMA, MMPX |
| EZ_141_CT | 33 GHz | 1.8 dB/m | 3.58 mm | SK, SMA |

Minibend CT

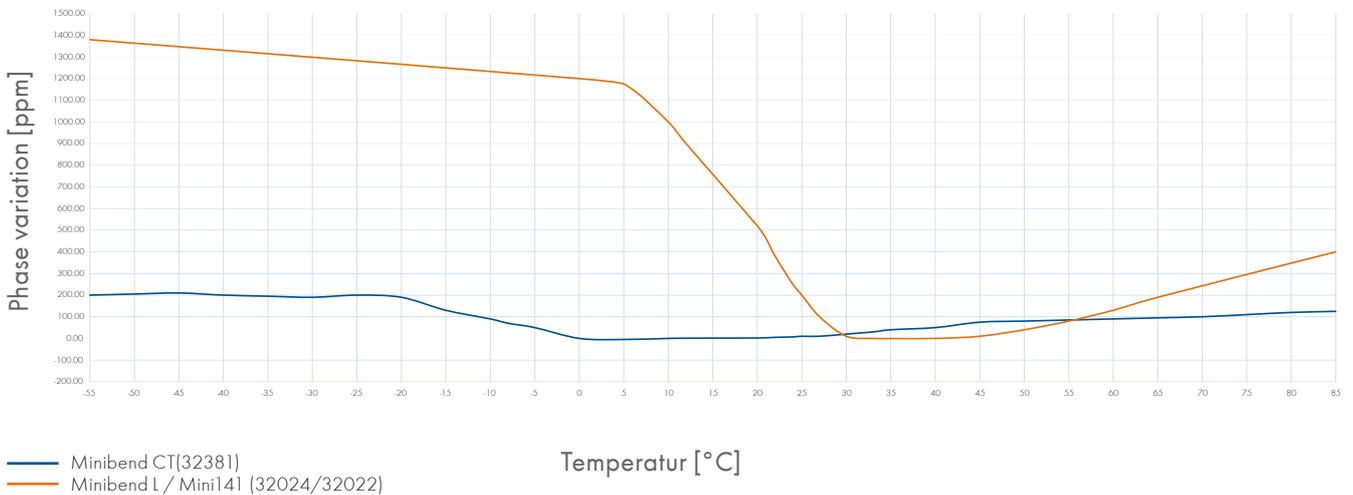


Benefits

- Flexible applications
- Bend-to-the-end technology
- Higher reliability due to solderless junctions
- MIL/DTL qualified

- Excellent phase and insertion loss stability over temperature
minibend CTR: < 300 ppm absolute phase changeover -55 to +85 °C temperature range
- Outstanding phase stability versus bending
Phase vs flexure of 1.0° at 24 GHz
- Revolutionary minibend bend-to-the-end flexibility
minibend CTR: 5 mm minimum bend radius applicable right behind the connector

Phase variation vs. temperature



Product Overview

| Description | Frequency range | Insertion loss @18GHz | Outer diameter | Connectors |
|---------------------|-----------------|-----------------------|----------------|------------------------------------|
| Minibend CT (32381) | 70 GHz | 3.94 dB/m | 2.54 mm | SMA, K, SMP, SMPM, SMPM-T, 1.85 mm |

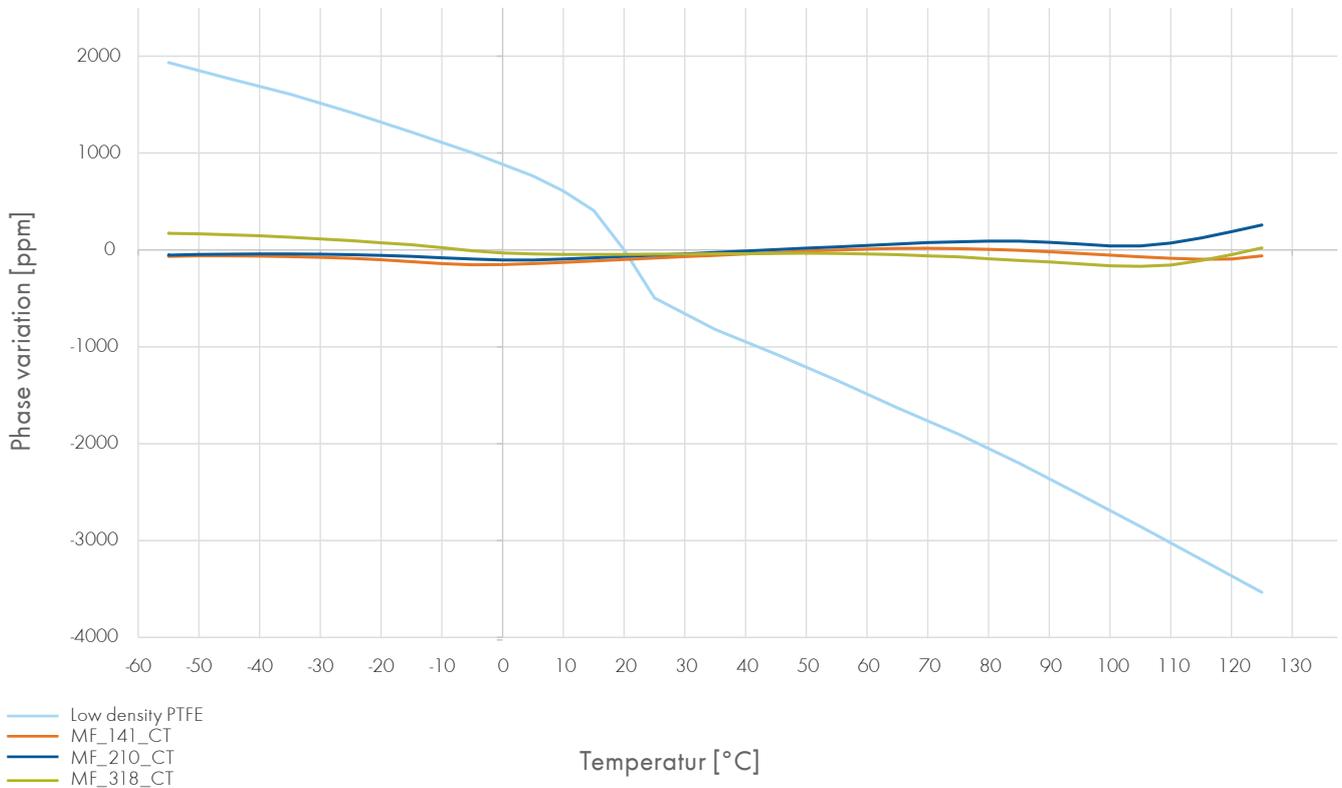
Multiflex CT



Benefits

- Flexible applications
- Frequency range up to 33GHz
- Low loss
- Low weight

Phase variation vs. temperature



Product Overview

| Description | Frequency range | Insertion loss @18GHz | Outer diameter | Connectors |
|------------------|-----------------|-----------------------|----------------|--------------|
| Multiflex_141_CT | 33GHz | 1.6 dB/m | 4.2 mm | SK, SMA, BMA |
| Multiflex_210_CT | 30GHz | 1.4 dB/m | 5.0 mm | SK, SMA, TNC |
| Multiflex_318_CT | 18GHz | 0.99 dB/m | 7.5 mm | N, TNC |

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Waiver

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