

# Data Sheet

## Microwave Cable Assemblies

**PMA SF570E/11PC185/11PC185/36in Part No.: 85184846**

### Main characteristics

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SUCOFLEX 570E microwave cable assemblies set a new measurement standard through 70 GHz. Absolute phase matched +/- 1ps.



### Product configuration

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|             |                             |               |          |      |
|-------------|-----------------------------|---------------|----------|------|
| Cable Type  | SUCOFLEX 570E               |               |          |      |
| Lenght      | 914.0 mm 36.0 in REF to REF |               |          |      |
|             | <b>Type</b>                 | <b>Series</b> |          |      |
| Connector A | SF_11_PC185-503             | 1.85mm        | straight | plug |
| Connector B | SF_11_PC185-503             | 1.85mm        | straight | plug |

### Technical data

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#### Electrical data

|                                |                    |
|--------------------------------|--------------------|
| Impedance                      | 50.0 Ω             |
| Operating Frequency max        | 70.0 GHz           |
| Min. Return Loss               | 14.0 dB VSWR 1.499 |
| Max. Insertion Loss            | 6.48 dB            |
| Signal Delay                   | 4.3 ns/m           |
| Propagation Velocity           | 77.0 %             |
| Screen Effectiveness           | ≥ 90.0 dB 18.0 GHz |
| Amplitude stability vs.Flex[±] | 0.1 dB             |
| Phase Stab vs.Flexure          | 0.28 °/GHz         |

#### Mechanical data

|                               |         |
|-------------------------------|---------|
| Cable Diameter max            | 3.3 mm  |
| Minimum Bending Radius Static | 11.0 mm |
| Weight                        | 0.03 kg |

#### Environmental data

|                             |                      |
|-----------------------------|----------------------|
| Operation Temperature Range | -40.0 °C ... 85.0 °C |
|-----------------------------|----------------------|

### Additional information

|                              |   |
|------------------------------|---|
| <b>Marketing Information</b> | Return loss figures are guaranteed up to 67 GHz. Absolute phase matched +/- 1ps |
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