

## SUCOFLEX® 550S Microwave Cable Assembly

### Description

SUCOFLEX 550S microwave cable assemblies set a new measurement standard through 50 GHz.

- Excellent return and insertion loss
- Phase and amplitude stability with flexure and movement
- Torque, crush and kink resistance
- Precise and repeatable measurements
- Long service life
- Reduce total cost of test with durable, reliable performance



### Product Configuration

|                    |                                |
|--------------------|--------------------------------|
| Description        | SF550S/11PC24/11PC24/24inch    |
| Item number        | 85120065                       |
| Cable type         | SUCOFLEX 550S                  |
| Length of assembly | 24 inch ( 610 mm)              |
| Connector A        | SF_11_PC24-501 (straight male) |
| Connector B        | SF_11_PC24-501 (straight male) |

### Technical Data

#### Mechanical Data

|                     |                 |
|---------------------|-----------------|
| Outer diameter      | 6.1 mm          |
| Min. bending radius | 25.4 mm         |
| Weight              | 65 g            |
| Flex life           | >100'000 cycles |

#### Environmental Data

|                       |                 |
|-----------------------|-----------------|
| Operating temperature | -55 ... + 125°C |
| 2011/65/EC (RoHS)     | Compliant       |

#### Electrical Data

|                                      |              |
|--------------------------------------|--------------|
| Impedance                            | 50 Ω         |
| Operating frequency                  | up to 50 GHz |
| Velocity of propagation              | 77 %         |
| Time delay                           | 4.3 ns / m   |
| Typical return loss                  | -17.0 dB     |
| Min. return loss                     | -14.9 dB     |
| Typical insertion loss               | 2.50 dB      |
| Max. insertion loss                  | 2.89 dB      |
| Screening effectiveness              | > 90 dB      |
| Typ. amplitude stability vs. shaking | ± 0.05 dB    |
| Typ. amplitude stability vs. bending | ± 0.05 dB    |
| Typ. phase stability vs. bending     | ± 6.0°       |

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