



# SF526V/35VF/35VM/48in Microwave Cable Assembly

## **Description**

SUCOFLEX 526V microwave cable assemblies set a new measurement standard for vector network analyzers (VNAs) through 26.5 GHz.

- Extremely flexible and ease of handling
- Best-in-class phase and amplitude stability with flexure, movement, temperature and tensile stress
- Robust and precise center positioning of 3.5mm center conductors
- Accurate and repeatable measurements
- Increased test efficiency and measurement saving costs due to reduced calibration intervals



## **Product Configuration**

Description	SF526V/35VF/35VM/48in		
Item no	85070047		
Cable type	SUCOFLEX 526V		
Length of assembly	48" (1219 mm)		
Connector A	35VF (3.5 mm ruggedized PORT female)		
Connector B	35 VM (3.5 mm ruggedized DUT male)		

# **Technical Data**

# Mechanical DataNominal outer diameter13.0 mmMin. bending radius50 mmCrush resistance80 kN/mNominal weight400 gFlex life100'000 cycles

#### **Environmental Data**

Operating temperature	Laboratory conditions, analyzer specific (+15°C to +30°C)
RoHS, REACH	Compliant

### **Electrical Data**

Impedance	50 Ω			
Operating frequency	up to 26.5 GHz			
Velocity of propagation	80 %			
Time delay	4.17 ns / m			
Return loss	min. 20 dB	up to 26.5 GHz		
Return loss stability	> 40 dB	up to 26.5 GHz		
Insertion loss (assembly)	max. 4.4 dB	26.5 GHz, 25°C		
Screening effectiveness	> 90 dB	up to 26.5 GHz		
Amplitude stability vs. movement (* )	max. 0.05 dB	up to 26.5 GHz		
Amplitude stability vs. flexure (**)	max. 0.08 dB	up to 26.5 GHz		
Phase stability vs. flexure (**)	max. 10.0°	up to 26.5 GHz		
Phase stability vs. tensile stress	max. 0.1° / GHz	100 N, up to 26.5 GHz		
Phase stability vs. temperature	max. 50 ppm	15°C to 30°C, up to 26.5GHz		

(\*) Stability test vs. movement 30s, displacement: 100 mm

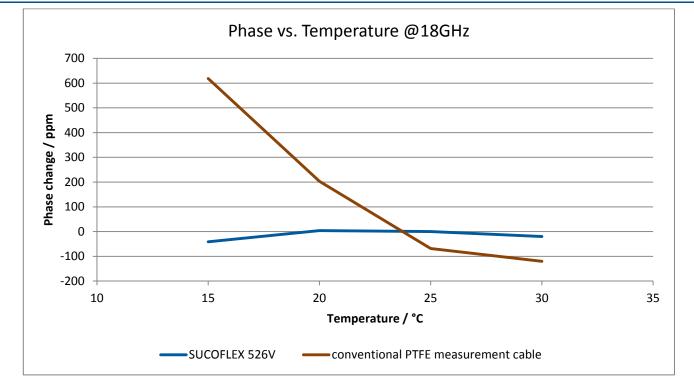
(\*\*) Stability test vs. flexure 180°, diameter 115 mm





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## Phase vs. temperature performance

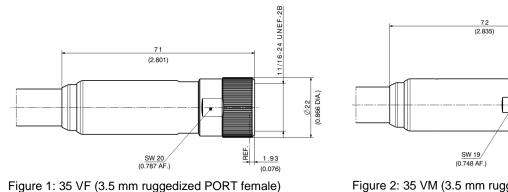


Phase shift vs. temperature (+15°C to + 30°C)

		SUCOFLEX 526V	Conventional VNA test lead
Assembly length (in (mm))	Frequency (GHz)*	Phase shift /° (for 50 ppm, 80% VOP)	Phase shift /° (for 700 ppm, 84% VOP)
48 (1219)	18	1.7	21.9
48 (1219)	26.5	2.5	32.1

\*Other frequencies on request

#### **Connector configuration**



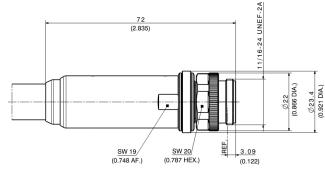


Figure 2: 35 VM (3.5 mm ruggedized DUT male)

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