



SF526V/35VF/35F/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/35F/48in		
Item no	85081177		
Cable type	SUCOFLEX 526V		
Length of assembly	48" (1219 mm)		
Connector A	35VF (3.5 mm ruggedized PORT female)		
Connector B	35F (3.5 mm DUT female)		

Technical Data

Mechanical Data	
Nominal outer diameter	13.0 mm
Min. bending radius	50 mm
Crush resistance	80 kN/m
Nominal weight	400 g
Flex life	100'000 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

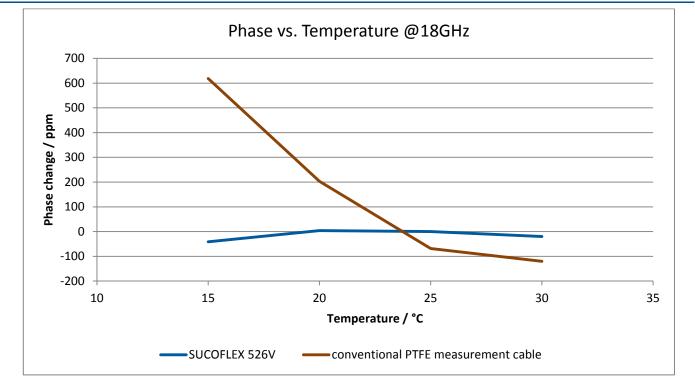
(**) Stability test vs. flexure 180°, diameter 115 mm





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Phase vs. temperature performance

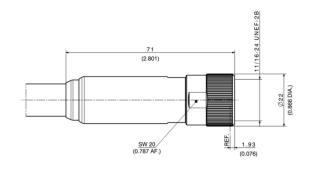


Phase shift vs. temperature (+15°C to + 30°C)

		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



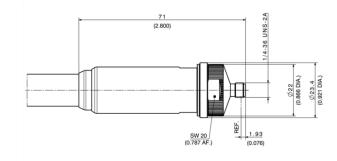


Figure 1: 35 VF (3.5 mm ruggedized PORT female)

Figure 2: 35 F (3.5 mm DUT female)

HUBER+SUHNER is certified according to EN 9100, ISO 9001, ISO 14001, ISO/TS 16949 und IRIS

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