SUCOFLEX 500

Twist and bend it as you wish

When it comes to test and measurement, SUCOFLEX® 526V and SUCOFLEX® 526S assemblies guarantee the highest level of satisfaction. Thanks to their unique cable and connector design, they deliver best-inclass phase and amplitude stability with flexure, movement, temperature and tensile stress in combination with outstanding return and insertion loss up to 26.5 GHz.

HUBER+SUHNER
Excellence in Connectivity Solutions

Sucoflex 526 product comparison

	Sucoflex_526V	Sucoflex_526S
Applications	Vector network analysers (VNAs) Critical laboratory conditions	Bench top testing, RF production testing, Automated test equipment
Features and benefits	Best-in-class phase and amplitude stability with flexure, movement, temperature and tensile stress Excellent return loss Extremely flexible and ease of handling	Excellent return- and insertion loss Phase and amplitude stability with flexure and movement Abrasion, moisture and dust resistance
	Torque, crush and kink resistance Robust and precise center positioning of 3.5 mm center conductors Precise and repeatable measurements Long service life Reduce total cost of test with durable, reliable performance Increased test efficiency and measurement saving costs due to reduced calibration intervals	
Diameter	13 mm	7.7 mm
Min. bending radius	50 mm	25.4 mm
Available connectors	PC 3.5	PC 3.5, SMA, N
Crush resistance	80 kN/m	26 kN/m
Typ. flex cycles	100.000 2.0 Mio. for slight movements	100.000
Operating temperature	laboratory conditions, analyzer specific (+15 to +30 °C)	-55 to +125°C
RoHS, REACH	Compliant	Compliant
Operating frequency	up to 26.5 GHz	up to 26.5 GHz
Velocity of propagation	80 %	77 %
Return loss	typ. 25 dB min. 20 dB	typ. 25.0 dB min. 19 dB
Insertion loss (25 / 38 / 48 in) @ 26.5 GHz	max. 2.5 / 3.6 / 4.4 dB	typ. 1.63 dB/m incl. connectors max 1.77 dB/m incl. connectors
Screening effectiveness	> 90 dB	> 90 dB
Amplitude stab. vs. movement	max. 0.05 dB	max. ± 0.05 dB
Amplitude stab. vs. flexure	max. 0.08 dB	max. ± 0.05 dB
Phase stability vs. flexure (25 / 38 / 48 in)	max. 3.9 / 7.4 / 10°	typ. ± 3.0°
Phase stab. vs. tensile stress	max. 0.1°/GHz 100 N up to 26.5 GHz	N/A
Phase stab. vs. temperature	typ. 50 ppm +15 °C to +30 °C, 26.5 GHz	typ. 1500 ppm -55°C to + 125°C
Phase matched assemblies available	No	Yes, upon request
New optimised PC3.5 interface supports S-parameter measurements with the highest accuracy	Yes	Yes
Stock assemblies available	Yes	Yes

SUCOFLEX® 526V

The only VNA microwave cable worldwide with a typical 50 ppm phase variation vs. temperature between +15 and +30 °C only. No "PTFE phase knee" at +19 °C as on conventional VNA test cable assemblies which cause phase variations and unstable measurements in critical laboratory conditions.

Available connectors

Product configuration	85069744	85081169	85070046	85081172	85070047	85081177
Cable type	SUCOFLEX 526V					
Length	25" (635 mm)	25" (635 mm)	38" (965 mm)	38" (695 mm)	48" (1219 mm)	48" (1219 mm)
Connector A	3.5 mm ruggedised PORT female					
Connector B	3.5 mm ruggedised DUT male (35VM)	3.5 mm DUT female (35F)	3.5 mm ruggedised DUT male (35VM)	3.5 mm DUT female (35F)	3.5 mm ruggedised DUT male (35VM)	3.5 mm DUT female (35F)
Mechanical data						
Diameter	13 mm					
Min. bending	50 mm					
Crush resistance	80 kN/m					
Flex life	100 000 cycles					
Environmental data						
Operating temperature	laboratory conditions, analyser specific (+15 to +30 °C)					
RoHS, REACH	compliant					
Electrical data						
Impedance	50 Ω					
Operating frequency	up to 26.5 GHz					
Velocity of propagation	80 %					
Time delay	4.15 ns/m					
Return loss	min. 20 dB					
Insertion loss	max. 2.5 dB		max. 3.6 dB		max. 4.4 dB	
Screening effectiveness	> 90 dB					
Amplitude stability vs. movement	max. 0.05 dB					
Amplitude stability vs. flexure	max. 0.08 dB					
Phase stability vs. flexure	max. 3.9°		max. 7.4°		max. 10°	
Phase stability vs. tensile stress	max. 0.1°/GHz (100 N)					
Phase stability vs. temperature	typ. 50 ppm (+15 to +30 °C)					

Ordering information

Item no.	Description
85069744	SF526V/35VF/35VM/25in
85081169	SF526V/35VF/35F/25in
85070046	SF526V/35VF/35VM/38in
85081172	SF526V/35VF/35F/38in
85070047	SF526V/35VF/35VM/48in
85081177	SF526V/35VF/35F/48in

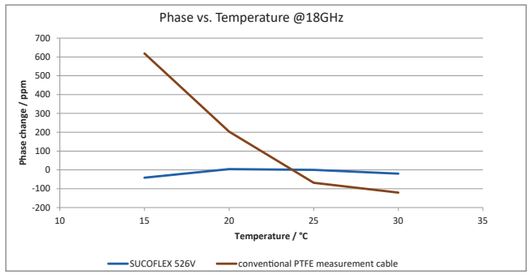
SUCOFLEX® 526V

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

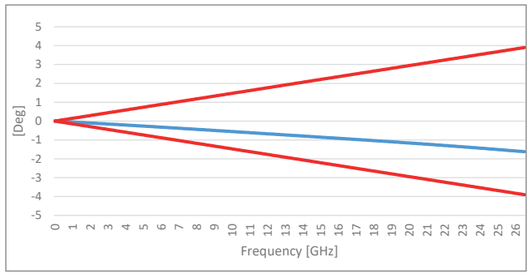
		SUCOFLEX 526V	Conventional VNA test lead
Assembly length (in (mm))	Frequency (GHz)*	Phase shift /° (for 50 ppm, 80% VOP)	Phase shift /° (for 700 ppm, 84% VOP)
25 (635)	18	0.9	11.4
25 (635)	26.5	1.3	16.7

*Other frequencies on request

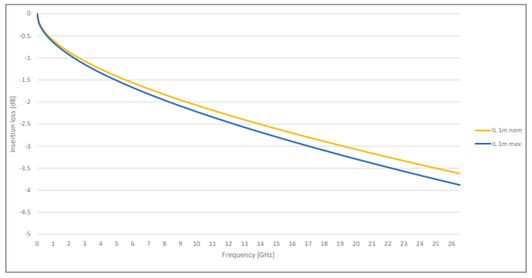
Phase stability vs. temperature perfomance



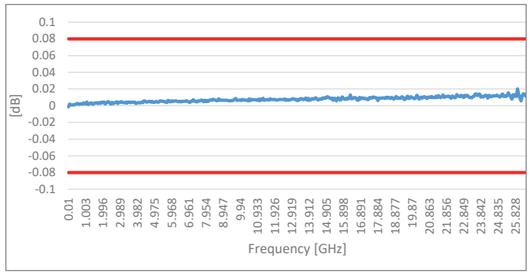
Phase stability vs. flexure



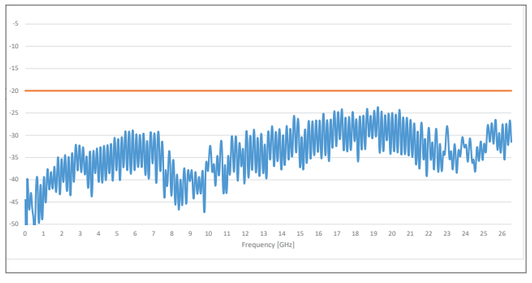
Insertion Loss



Loss stability vs. flexure

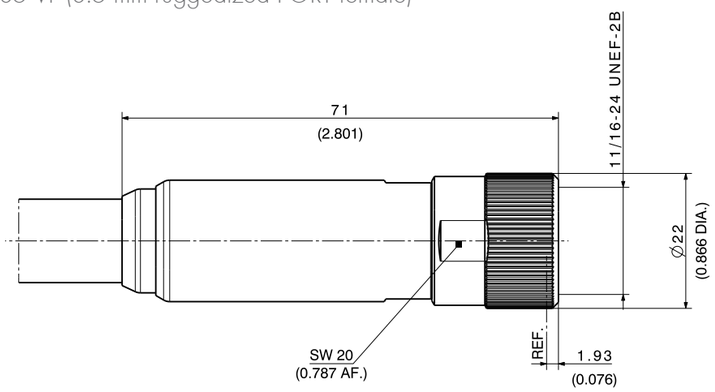


Return Loss SUOFLEX 526V with two straigth PC3.5 connectors

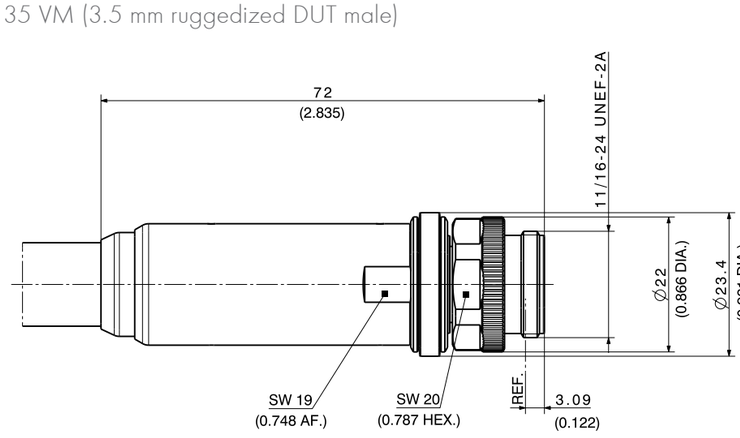


Connector configuration

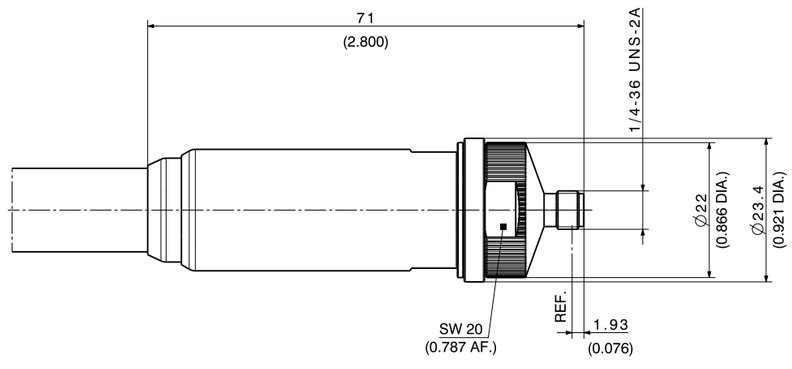
35 VF (3.5 mm ruggedized PORT female)



35 VM (3.5 mm ruggedized DUT male)



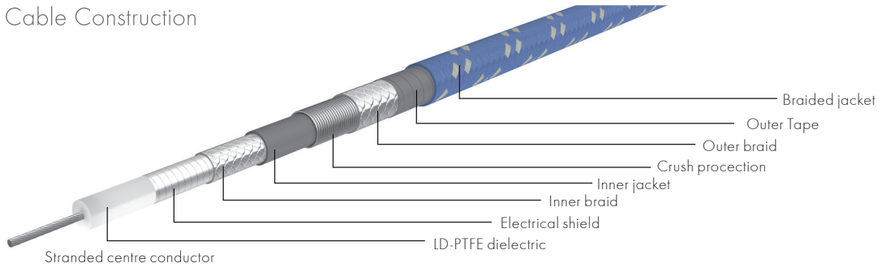
35F (3.5mm DUT female)



SUCOFLEX® 526S

The SUCOFLEX 526S is the top performance cable assembly for various applications in test laboratories. When it comes to test and measurement, SUCOFLEX 526S assemblies guarantee the highest level of satisfaction. Thanks to their unique cable and connector design, they deliver best-inclass phase and amplitude stability with flexure in combination with outstanding return and insertion loss up to 26.5 GHz.

Cable Construction



Mechanical data	
Diameter	7.7 mm
Min. bending	25.4 mm
Crush resistance	26 kN/m
Flex life	100 000 cycles
Environmental data	
Operating temperature	-55 to +125°C
RoHS, REACH	compliant
Electrical data	
Impedance	50 Ω
Operating frequency	up to 26.5 GHz
Velocity of propagation	77 %
Time delay	4.15 ns/m
Return loss	min. 19 dB
Insertion loss	typ. 1.63 dB/m incl. connectors, max 1.77 dB/m incl. connectors
Screening effectiveness	> 90 dB
Amplitude stability vs. movement	max. ± 0.05 dB
Amplitude stability vs. flexure	max. ± 0.05 dB
Phase stability vs. flexure	typ. ± 3°
Phase stability vs. temperature	typically 1500 ppm (-55 to +125 °C)

Ordering information

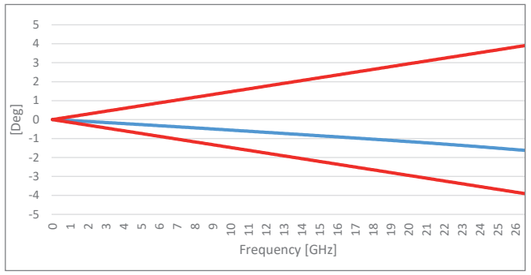
Item no.	Stock assembly type	
85090623	SF526S/11PC35/11PC35/500mm	PC3.5 male/ PC3.5 male
85088164	SF526S/11PC35/11PC35/36inch	PC3.5 male/ PC3.5 male
85090624	SF526S/11PC35/11PC35/1000mm	PC3.5 male/ PC3.5 male
85090625	SF526S/11PC35/11PC35/2000mm	PC3.5 male/ PC3.5 male
85090626	SF526S/11PC35/11PC35/3000mm	PC3.5 male/ PC3.5 male
85090629	SF526S/11PC35/21PC35/36inch	PC3.5 male/ PC3.5 female
85091104	SF526S/11PC35/21PC35/48inch	PC3.5 male/ PC3.5 female
85089172	SF526S/11N/11N/1000mm	N male/ N male
85089173	SF526S/11SMA/11SMA/1000mm	SMA male/ SMA male

SUCOFLEX® 526S

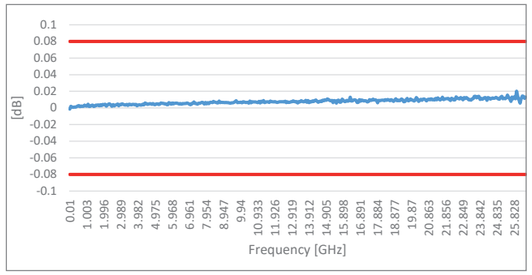
Available connectors

Connector	Series, pattern	HUBER+SUHNER connector type	Operating frequency (GHz)
PC 3.5	Straight cable plug	11_PC-3.5	26.5
	Straight cable jack	21_PC-3.5	
N	Straight cable plug	11_N	18
	Straight cable jack	21_N	
SMA	Straight cable plug	11_SMA	18

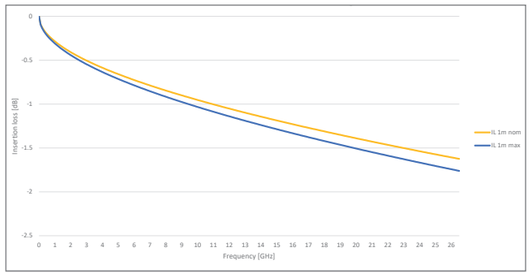
Phase vs. stability vs flexure



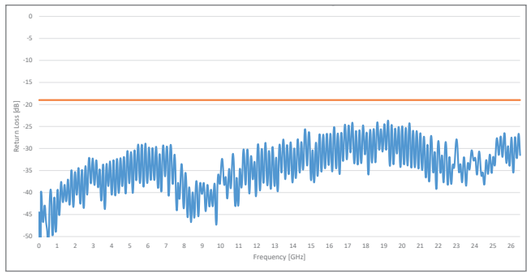
Loss stability vs. flexure



Insertion Loss

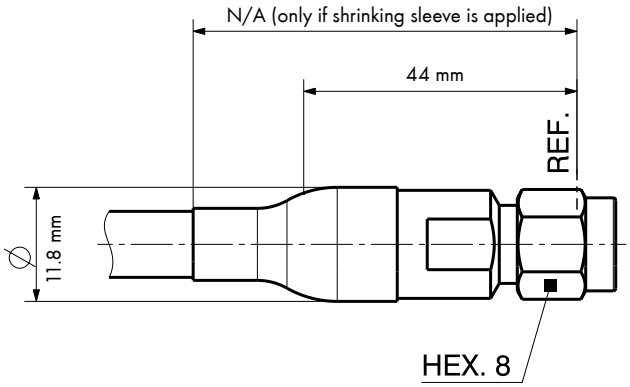


Return Loss SUOFLEX 526S with two straigth PC3.5 connectors

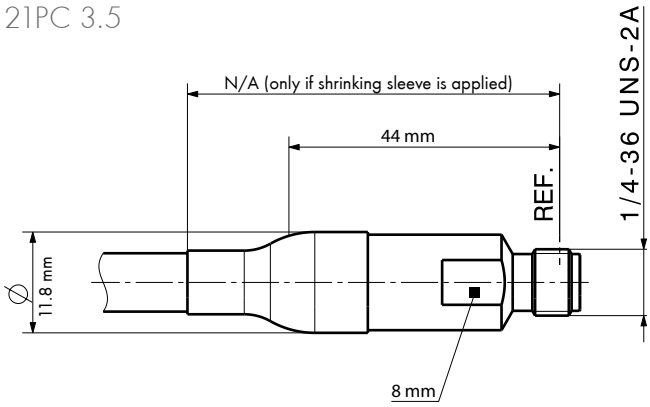


Connector configuration

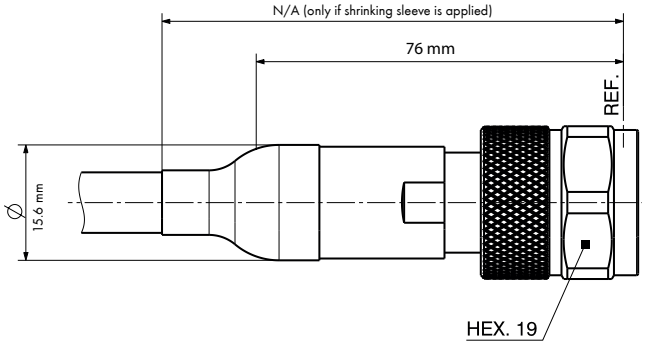
11PC 3.5



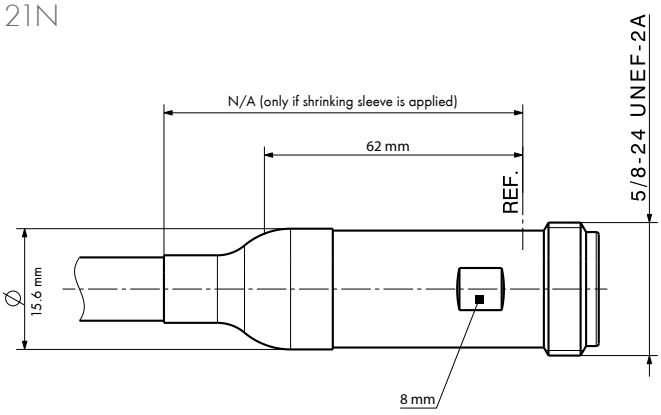
21PC 3.5



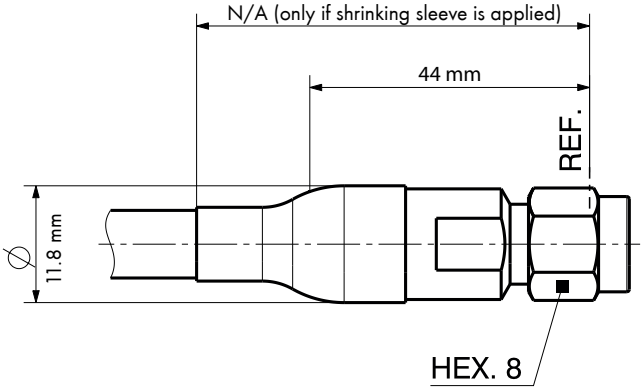
11N



21N



11SMA



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HUBER+SUHNER AG
Radio Frequency Division
Degersheimerstrasse 14
9100 Herisau/Switzerland
Tel. +41 71 353 4111
hubersuhner.com

HUBER+SUHNER is certified according to EN(AS) 9100, ISO 9001, ISO 14001, ISO/TS 16949 and IRIS.

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Тел: +7 (812) 336 43 04 (многоканальный)
Email: org@lifeelectronics.ru

www.lifeelectronics.ru