

# SUCOFLEX 526V

Twist and bend it as you wish

Plug,  
test,  
smile.



When it comes to test and measurement, SUCOFLEX® 526V assemblies guarantee the highest level of satisfaction. Not only are they extremely flexible and easy to use, thanks to their unique design, they also deliver best-in-class phase and amplitude stability with flexure, movement, temperature and tensile stress.

## Benefits

- Extremely flexible and ease of handling
- High stable electrical performance up to 26.5 GHz
- Best-in-class phase and amplitude stability with flexure, movement, temperature and tensile stress
- Robust and precise center positioning of 3.5 mm center conductors
- Accurate and repeatable measurements
- Increased test efficiency and measurement saving costs due to reduced calibration intervals

# SUCOFLEX® 526V



The only VNA microwave cable worldwide with max. 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                               | 3.5 mm ruggedised DUT female | 3.5 mm ruggedised DUT male | 3.5 mm ruggedised DUT female | 3.5 mm ruggedised DUT male | 3.5 mm ruggedised DUT female |
| 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. 2.5 dB                  | max. 3.6 dB                | max. 3.6 dB                  | max. 4.4 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    | max. 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  |

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

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