

# SUCOFLEX 229

The loss revolution for *dynamic* applications



## Features

- For static and dynamic applications up to 29 GHz
- Ultra low loss: typ. 1 dB/m at 18 GHz
- Outstanding Phase stability vs. temp.:  
<600ppm (-55°C up to +125°C) / typ. 500-540ppm
- Excellent return loss

## Benefits

- Improved system performance due to reduced phase change over temperature
- Higher signal integrity due to lower loss
- Fully MIL/DTL-17 qualified
- Available as assembly ready to use
- Excellent performance to price ratio
- Stock assemblies available

# SUCOFLEX 229

## Cable:

- SUCOFLEX 229 (0.2inch / 5mm diameter)

## Connectors (vented and nonvented):

- Straight male 26.5 GHz SMA
- Straight male N
- Straight male TNC
- Straight male SK
- Additional connector variations on request

## Ruggedization (optional):

- SUCOFLEX 229 microwave coaxial cable assemblies may be supplied with ruggedization as an additional option for enhanced mechanical, electrical, or environmental protection.



## Technical data SUCOFLEX 229 cable:

- Fully MIL/DTL-17 qualified

Constituent part	Material and Finish	Diameter
Center conductor	Solid silver-plated copper wire	
Dielectric	Low density tape wrapped PTFE	
Outer Conductor	Silver-plated copper flat wire	
Barrier	Polyimide / Aluminium tape	
Braid	Silver-plated copper wire	
Jacket	Solid extruded FEP	5.08 mm / .200 inch

Mechanical data	
Min. Bending Radius - Static	23 mm
Min. Bending Radius - Dynamic	70 mm
Flex life	> 2000 cycles
Weight	6.1 kg/100 m nom.

Electrical data	
Characteristic impedance	50 ± 1.5 Ω
Operating frequency	29.0 GHz
RF leakage	> 90 dB
Attenuation	1.0dB/m @ 18GHz and 1.38 dB/m @ 26 GHz
Phase stability vs. temperature	< 600 ppm
Power handling	800 W @ 3 GHz / 320 W @ 18 GHz

Environmental characteristics	
Operating temperature	-55 °C to +125 °C (CAY with ext. temp. range available on request)
Moisture resistance	MIL-STD-202 Method 106 passed
Humidity	MIL-STD-202 Method 103 passed
Thermal Shock	MIL-STD-202 Method 107 passed

HUBER+SUHNER AG  
Radio Frequency Division  
Degersheimerstrasse 14  
9100 Herisau/Switzerland  
Phone +41 71 353 4111  
Fax +41 71 353 4444  
hubersuhner.com

HUBER+SUHNER Astrolab  
4 Powder Horn Drive  
Warren, New Jersey  
Phone +1 732 560-3800  
Fax +1 732 560-9570  
astrolab.hubersuhner.com

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#### Waiver

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