



SUCOFLEX® 301

Electrical Cable Data

Frequency Range			DC ... 18 GHz
Impedance			50 Ohm
Attenuation	for calculation use formula on page 2		
	a/b parameters @ nominal values	25° C a_{nom}	0.4100
		b_{nom}	0.0063
	maximum values	a_{max}	0.4510
		b_{max}	0.0070
Capacitance			95.4 pf/m
Relative Signal Propagation			77.0 %
Signal Delay			4.3 ns/m
Phase Stability	vs temperature	over entire temp.range	1500 ppm
	vs bending		$\pm 0.8^\circ/\text{GHz}$
RF Leakage	@ 18 GHz		> 90 dB

General Cable Data

Temperature Range			-55 ... + 125°C
Weight			23.9 g/m
Diameter			3.5 mm
Min. Bending Radius	static		15 mm
	dynamic		20 mm
Qualific. Status Spaceflight			qualified

Suitable Connectors

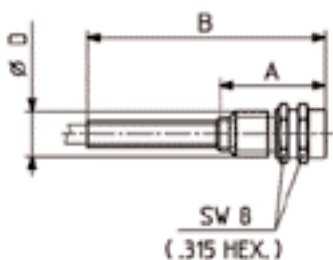
Connector Type	Max. Frequency (GHz)	VSWR	Loss Coefficient c	Lenth Extension (m) l_c	Figure
11 SMA-187	18	1.12	0.02	0	200
16 SMA-189	18	1.12	0.02	0.018	201

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Mounting Holes

11 SMA-187 - SMA straight plug (male)

Fig. 200

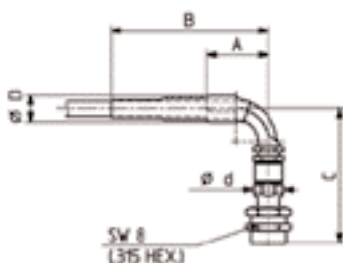


For Spaceflight only, connector vented

Dimensions (mm)		
A		16.5
B		39.5
C		—
Ø D		6.5
Ø d		—
Weight (g)		
		2.5
Material		
Body	CuBe/Au	
Nut	SS	

16 SMA-189 - SMA swept plug (male)

Fig. 201



For Spaceflight only, connector vented

Dimensions (mm)		
A		13.0
B		33.0
C		23.5
Ø D		6.0
Ø d		5.0
Weight (g)		
		3.0
Material		
Body	CuBe/Au	
Nut	SS	

The HUBER+SUHNER is certified according to ISO 9001 and ISO 14001.

WAIVER

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HUBER+SUHNER AG
 Mobile Communications+Electronics
 9100 Herisau/Switzerland
 Tel. +41 (71) 353 41 11
 Fax +41 (71) 353 45 90
 www.hubersuhner.com