



# SUHNER® MICROWAVE CABLE DATA SHEET

## TYPE SM 141-60

**SUCOFORM**, the handformable microwave cable

### Cable Design



	Material	Detail	Diameter
Centre conductor:	StCuAg	Wire	0.76 mm
Dielectric:	PTFE		2.95 mm
1. Outer conductor:	CuSn Tin soaked braid	100% coverage	3.58 mm

Print: SUHNER SUCOFORM 141-60 (Batch no.)

### Electrical Data

Impedance:	60	$\Omega$
Max. operating frequency:	4	GHz
Capacitance:	80	pF / m
Velocity of signal propagation:	71	%
Signal delay:	4.7	ns / m
Min. screening effectiveness:	> 100	dB (up to 4 GHz)
Max. operating voltage:	1.9	kV <sub>rms</sub> (at sea level)

### General Data

Temperature range:	-65 °C...+ 165 °C
Weight:	4 kg / 100 m
Min. bending radius :	static 8 mm
	repeated (for max. 50 bendings) 40 mm

### Suitable Connectors

Cable group n/a  
(for details refer to the "SUHNER Microwave Cables and Assemblies General Catalogue" or contact you nearest HUBER+SUHNER partner)

### Notes

Order as **SM 141-60** under article number **22512161**

#### WAIVER!

While the information contained in this folder has been carefully compiled to the best of our present knowledge, it is not intended as representation or warranty of any kind on our part regarding the fitness of the products concerned for any particular use or purpose and neither shall any statement contained herein be constructed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The fitness of each product for any particular purpose must be checked beforehand with our specialists.



**HUBER+SUHNER**

HUBER+SUHNER AG  
Interconnect Division  
CH-9100 Herisau  
Phone +41 (0)71 353 41 11  
Fax +41 (0)71 353 45 90  
<http://www.hubersuhner.com>

Issued: 5.6.2002 10:40

Document: TEMP\_PDB\_2251216  
1.PDF

RF\_Co\_Ca\_PDF

uncontrolled copy

Page 1



# SUHNER® MICROWAVE CABLE DATA SHEET

## TYPE SM 141-60

**Matrix**      **Attenuation** [formula :  $(a \cdot f^{0.5} + b \cdot f)$ ] and **Power CW** [formula :  $(p^2 / f^{0.5})$ ]

Coefficients:

a= 0.3747

b= 0.03234

f<sub>max</sub> = 4

p<sub>at 1GHz</sub> = 435

Frequency (GHz)	Nom. attenuation (dB / m) sea level 25° C ambient temperature	Nom. attenuation (dB / ft) sea level 25° C ambient temperature	Max. CW power (watt) sea level 40° C ambient temperature
0.20	0.17	0.052	973
0.40	0.25	0.076	688
0.60	0.31	0.094	562
0.80	0.36	0.110	486
1.00	0.41	0.125	435
1.20	0.45	0.137	397
1.40	0.49	0.149	368
1.60	0.53	0.162	344
1.80	0.56	0.171	324
2.00	0.59	0.180	308
2.20	0.63	0.192	293
2.40	0.66	0.201	281
2.60	0.69	0.210	270
2.80	0.72	0.219	260
3.00	0.75	0.229	251
3.20	0.77	0.235	243
3.40	0.80	0.244	236
3.60	0.83	0.253	229
3.80	0.85	0.259	223
4.00	0.88	0.268	218

### WAIVER!

While the information contained in this folder has been carefully compiled to the best of our present knowledge, it is not intended as representation or warranty of any kind on our part regarding the fitness of the products concerned for any particular use or purpose and neither shall any statement contained herein be constructed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The fitness of each product for any particular purpose must be checked beforehand with our specialists.

Issued: 5.6.2002 10:40

Document: TEMP\_PDB\_2251216  
1.PDF

RF\_Co\_Ca\_PDF

uncontrolled copy

Page 2



**HUBER+SUHNER**

HUBER+SUHNER AG  
Interconnect Division  
CH-9100 Herisau  
Phone +41 (0)71 353 41 11  
Fax +41 (0)71 353 45 90  
<http://www.hubersuhner.com>