



# SUHNER® MICROWAVE CABLE DATA SHEET

## TYPE SM 141-35 FEP

**SUCOFORM**, the handformable microwave cable with protective jacket

### Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Wire	1.4 mm
Dielectric:	PTFE		2.95 mm
1. Outer conductor:	CuSn Tin soaked braid	100% coverage	3.58 mm
Jacket:	FEP	RAL 3027 - rd	4.1 mm
Print:	SUHNER SUCOFORM 141-35 FEP (Batch no.)		

### Electrical Data

Impedance:	35	Ω
Max. operating frequency:	4	GHz
Capacitance:	144	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:	5.4 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 141-35 FEP** under article number **22512291**

#### WAIVER!

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

Coefficients:

a= 0.51114

b= 0.00895

f<sub>max</sub> = 4

p<sub>at 1GHz</sub> = 390

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	0.23	0.070	872
0.40	0.33	0.101	617
0.60	0.40	0.122	503
0.80	0.46	0.140	436
1.00	0.52	0.158	390
1.20	0.57	0.174	356
1.40	0.62	0.189	330
1.60	0.66	0.201	308
1.80	0.70	0.213	291
2.00	0.74	0.226	276
2.20	0.78	0.238	263
2.40	0.81	0.247	252
2.60	0.85	0.259	242
2.80	0.88	0.268	233
3.00	0.91	0.277	225
3.20	0.94	0.286	218
3.40	0.97	0.296	212
3.60	1.00	0.305	206
3.80	1.03	0.314	200
4.00	1.06	0.323	195

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