## **Data Sheet**



Formable microwave cable

SUCOFORM\_250-01\_FEP Item: 84007941

#### **Description**

Sucoform: Formstable, hand-formable alternatives to semi-rigid microwave cables

RG401 dimension, 50 Ohm, 18 GHz, 165°C, ø6.8 mm, FEP jacket



#### **Technical Data**

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	1.67 mm
Dielectric	PTFE (Polytetrafluoroethylene)		5.24 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	6.3 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 3020 - rd	6.8 mm +/- 0.1

Print: HUBER+SUHNER SUCOFORM 250-01 FEP 50 Ohm (PA no.)

#### **Electrical Data**

 Signal delay
 4.7 Hs/III

 Screening effectiveness
 ≥ 100 dB (up to 18 GHz)

 Operating voltage
 ≤ 3.5 kV<sub>rms</sub> (at sea level)

 Test voltage
 7.5 kV<sub>rms</sub> (50 Hz/1 min)

### **Mechanical Data**

Weight 13.8 kg/100 m Min. bending radius static 30 mm

repeated (for \$ 15 bendings)

repeated (for ≤ 15 bendings) 120 mm

#### **Environmental Data**

Temperature range -65 °C ... +165 °C

Flame propagation test IEC 60332-1, UL 1581 § 1080 (VW-1)

 Halogen free
 No

 2011/65/EU (RoHS - including
 compliant

 2015/863 and 2017/2102)
 compliant

 1907/2006/EC (REACH)
 compliant

 2000/53/EC (ELV)
 compliant

2012/19/EU (WEEE) no special marking needed

#### **Additional Information**

#### Remarks

(For details refer to the HUBER+SUHNER RF CABLES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

#### **Suitable Connectors**

Cable group Y14 5 mm / 50 Ohm

# **Data Sheet**



#### 

**Matrix** typical Attenuation [ formula: (a\*f^0.5 + b\*f) ] and maximum Power CW [ formula: (p/f^0.5) ]

Coefficients:

a = 0.21 b = 0.031 f<sub>max</sub> = 18 Pat 1GHz = 1000

Frequency	Nom. attenuation	Nom. attenuation	Max. CW power
(GHz)	(dB / m)	(dB / ft)	(W)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
0,9	0,23	0,069	1054
1,8	0,34	0,103	745
2,7	0,43	0,131	609
3,6	0,51	0,155	527
4,5	0,58	0,178	471
5,4	0,66	0,200	430
6,3	0,72	0,220	398
7,2	0,79	0,240	373
8,1	0,85	0,259	351
9,0	0,91	0,277	333
9,9	0,97	0,295	318
10,8	1,02	0,312	304
11,7	1,08	0,329	292
12,6	1,14	0,346	282
13,5	1,19	0,363	272
14,4	1,24	0,379	264
15,3	1,3	0,395	256
16,2	1,35	0,411	248
17,1	1,4	0,426	242
18,0	1,45	0,442	236

HUBER+SUHNER is certified according to ISO 9001, ISO 14001, AS/EN9100, ISO/TS 16949 and IRIS.

www.hubersuhner.com

Waiver: Fact and figures herein are for information only and do not represent any warranty of any kind.