## **Data Sheet**



Flexible RF cable

RG\_400\_/U Item: 22510080

## **Description**

RG: RG type RF cables

RG400, 50 Ohm, 6 GHz, 200°C, ø4.95 mm, FEP jacket



#### **Technical Data**

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-19	1 mm
Dielectric	PTFE (Polytetrafluoroethylene)		2.95 mm
Outer conductor	Copper, Silver plated	Braid, 97%	3.6 mm
Outer conductor	Copper, Silver plated	Braid, 94 %	4.2 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 8015 - br	4.95 mm +/- 0.1

Print: HUBER+SUHNER RG 400 U 50 Ohm (production order number)

#### **Electrical Data**

Impedance 50 Ω +/- 2 Operating Frequency 6 GHz 94 pF/m Capacitance Velocity of signal propagation 69 % Signal delay 4.75 ns/m Screening effectiveness ≥ 81 dB (up to 6 GHz) Operating voltage ≤ 1.7 kV<sub>rms</sub> (at sea level) 3.4 kV<sub>rms</sub> (50 Hz/1 min) Test voltage

#### **Mechanical Data**

 Weight
 6.4 kg/100 m

 Min. bending radius
 30 mm

 50 mm
 50 mm

 dynamic
 75 mm

#### **Environmental Data**

## **Additional Information**

MIL reference: M17/128-RG400

## Remarks

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

## **Suitable Connectors**

Cable group U11 3 mm / 50 Ohm

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

Coefficients:

a = 0.3894 b = 0.0925  $f_{max} = 6$  P at 1GHz = 365

Frequency	Nom. attenuation	Nom. attenuation	Max. CW powe
(GHz)	(dB / m)	(dB / ft)	(W)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
0,3	0,24	0,073	666
0,6	0,36	0,109	471
0,9	0,45	0,138	385
1,2	0,54	0,164	333
1,5	0,62	0,188	298
1,8	0,69	0,210	272
2,1	0,76	0,231	252
2,4	0,83	0,252	236
2,7	0,89	0,271	222
3,0	0,95	0,290	211
3,3	1,01	0,309	201
3,6	1,07	0,327	192
3,9	1,13	0,344	185
4,2	1,19	0,362	178
4,5	1,24	0,379	172
4,8	1,3	0,395	167
5,1	1,35	0,412	162
5,4	1,4	0,428	157
5,7	1,46	0,444	153
6,0	1,51	0,460	149

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