## **Data Sheet**



Flexible RF cable

RG\_223\_/U-02 Item: 22610106

### **Description**

RG: RG type RF cables

RG223 High-flexible, 50 Ohm, 6 GHz, 85°C, ø5.3 mm, PVC jacket



### **Technical Data**

### Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-19	0.9 mm
Dielectric	PE (Polyethylene)		2.93 mm
Outer conductor	Copper, Silver plated	Braid, 96%	3.6 mm
Outer conductor	Copper, Silver plated	Braid, 94 %	4.2 mm
Jacket	PVC II (low migration)	RAL 9005 - bk	5.3 mm +/- 0.15

Print: HUBER+SUHNER RG 223 U-02 50 Ohm (production order number)

### **Electrical Data**

Impedance

Operating Frequency Capacitance Velocity of signal propagation Signal delay Screening effectiveness

Operating voltage Test voltage

### **Mechanical Data**

Weight Min. bending radius static

dynamic

50 Ω +/- 2 6 GHz 101 pF/m 66 % 5.03 ns/m

5.3 kg/100 m

26 mm

53 mm

≥ 83 dB (up to 1 GHz) ≤ 2.5 kV<sub>rms</sub> (at sea level) 5 kV<sub>rms</sub> (50 Hz/1 min)

-25 °C ... +85 °C Temperature range -20 °C... +60 °C Installation temperature Halogen free No

2011/65/EU (RoHS - including compliant 2015/863 and 2017/2102) compliant 1907/2006/EC (REACH)

# **Environmental Data**

### **Additional Information**

MIL reference: M17/194-00001 (former reference: M17/84-RG223)

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

### **Suitable Connectors**

Cable group U9 3 mm / 50 Ohm

## **Data Sheet**



Flexible RF cable

RG\_223\_/U-02 Item: 22610106

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

Coefficients:

a = 0.501 b = 0.067  $f_{max} = 6$  P at 1GHz = 120

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	0,29	0,090	219
0,6	0,43	0,131	155
0,9	0,54	0,163	126
1,2	0,63	0,192	110
1,5	0,71	0,218	98
1,8	0,79	0,242	89
2,1	0,87	0,264	83
2,4	0,94	0,286	77
2,7	1,0	0,306	73
3,0	1,07	0,326	69
3,3	1,13	0,345	66
3,6	1,19	0,363	63
3,9	1,25	0,381	61
4,2	1,31	0,399	59
4,5	1,36	0,416	57
4,8	1,42	0,433	55
5,1	1,47	0,449	53
5,4	1,53	0,465	52
5,7	1,58	0,481	50
6,0	1,63	0,497	49

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.