# **Data Sheet**



Flexible RF cable

RG\_223\_/U Item: 22510072

# **Description**

RG: RG type RF cables

RG223, 50 Ohm, 6 GHz, 85°C, ø5.4 mm, PVC jacket



## **Technical Data**

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.88 mm
Dielectric	PE (Polyethylene)		2.95 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	5.4 mm +/- 0.1

Print: HUBER+SUHNER RG 223 U 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**

Min. bending radius static

50 Ω +/- 1 6 GHz 101 pF/m 66 % 5 ns/m ≥ 85 dB (up to 1 GHz)

≤ 2.5 kV<sub>rms</sub> (at sea level) 5 kV<sub>rms</sub> (50 Hz/1 min)

# **Environmental Data**

Temperature range -25 °C ... +85 °C -20 °C... +60 °C Installation temperature Halogen free No 2011/65/EU (RoHS - including compliant 2015/863 and 2017/2102) 1907/2006/EC (REACH) compliant

### 5.5 kg/100 m 30 mm 54 mm

# **Additional Information**

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

## Remarks

(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

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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 = 0.3756 b = 0.0749  $f_{max} = 6$  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	0,23	0,070	219
0,6	0,34	0,102	155
0,9	0,42	0,129	126
1,2	0,5	0,153	110
1,5	0,57	0,174	98
1,8	0,64	0,195	89
2,1	0,7	0,214	83
2,4	0,76	0,232	77
2,7	0,82	0,250	73
3,0	0,88	0,267	69
3,3	0,93	0,283	66
3,6	0,98	0,299	63
3,9	1,03	0,315	61
4,2	1,08	0,330	59
4,5	1,13	0,346	57
4,8	1,18	0,360	55
5,1	1,23	0,375	53
5,4	1,28	0,389	52
5,7	1,32	0,403	50
6,0	1,37	0,417	49

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