

Flexible RF cable G_03262_D-01

Description

G: RF cables with PE dielectrics

RG223 High-flexible LSFH, 50 Ohm, 6 GHz, 85°C, ø5.4 mm,
LSFH jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-19	0.9 mm
Dielectric	PE (Polyethylene)		2.95 mm
Outer conductor	Copper, Tin plated	Braid, 94%	3.6 mm
Outer conductor	Copper, Tin plated	Braid, 93 %	4.25 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	5.4 mm +/- 0.1

Print: HUBER+SUHNER G 03262 D-01 50 Ohm (production order number)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Screening effectiveness	≥ 73 dB (up to 1 GHz)
Operating voltage	≤ 2.5 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		5.5 kg/100 m
Min. bending radius	static	27 mm
		54 mm

Environmental Data

Temperature range	-40 °C ... +85 °C
Installation temperature	-20 °C... +60 °C
Flame propagation test	IEC 60332-1,
Halogen test	IEC 60754
Halogen free	Yes
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant

Additional Information

Ordering Information

Order as G_03262_D-01

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

Coefficients:

a = 0.4431

b = 0.0815

f_{max} = 6

P at 1GHz = 100

Frequency (GHz)	Nom. attenuation (dB / m)	Nom. attenuation (dB / ft)	Max. CW power (W)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
0,3	0,27	0,081	183
0,6	0,39	0,120	129
0,9	0,49	0,150	105
1,2	0,58	0,178	91
1,5	0,66	0,203	82
1,8	0,74	0,226	75
2,1	0,81	0,248	69
2,4	0,88	0,269	65
2,7	0,95	0,289	61
3,0	1,01	0,308	58
3,3	1,07	0,327	55
3,6	1,13	0,346	53
3,9	1,19	0,364	51
4,2	1,25	0,381	49
4,5	1,31	0,398	47
4,8	1,36	0,415	46
5,1	1,42	0,432	44
5,4	1,47	0,448	43
5,7	1,52	0,464	42
6,0	1,57	0,480	41