

Flexible RF cable RG_179_B/U

Description

RG: RG type RF cables

RG179, 75 Ohm, 3 GHz, 200°C, ø2.54 mm, FEP jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Strand-07	0.31 mm
Dielectric	PTFE (Polytetrafluoroethylene)		1.55 mm
Outer conductor	Copper, Silver plated	Braid, 94%	2 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 8015 - br	2.54 mm +/- 0.13

Print: HUBER+SUHNER RG 179 B/U 75 Ohm (production order number)

Electrical Data

Impedance	75 Ω +/- 3
Operating Frequency	3 GHz
Capacitance	63 pF/m
Velocity of signal propagation	69 %
Signal delay	4.83 ns/m
Screening effectiveness	≥ 41 dB (up to 1 GHz)
Operating voltage	≤ 0.75 kV _{rms} (at sea level)
Test voltage	1.5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		1.48 kg/100 m
Min. bending radius	static	15 mm
	dynamic	25 mm
		38 mm

Environmental Data

Temperature range	-65 °C ... +200 °C
Installation temperature	-20 °C... +60 °C
Flame propagation test	IEC 60332-1,
Halogen free	No
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant

Additional Information

MIL reference: M17/94-RG179

Ordering Information

Order as RG_179_B/U

Remarks

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

Suitable Connectors

Cable group U5 2 mm / 75 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 = 0.73

b = 0.1014

$f_{max} = 3$

P at 1GHz = 115

Frequency (GHz)	Nom. attenuation (dB / m) sea level 25° C ambient temperature	Nom. attenuation (dB / ft) sea level 25° C ambient temperature	Max. CW power (W) sea level 40° C ambient temperature
0,15	0,3	0,091	297
0,3	0,43	0,131	210
0,45	0,54	0,163	171
0,6	0,63	0,191	148
0,75	0,71	0,216	133
0,9	0,78	0,239	121
1,05	0,85	0,260	112
1,2	0,92	0,281	105
1,35	0,99	0,300	99
1,5	1,05	0,319	94
1,65	1,11	0,337	90
1,8	1,16	0,354	86
1,95	1,22	0,371	82
2,1	1,27	0,387	79
2,25	1,32	0,403	77
2,4	1,37	0,419	74
2,55	1,42	0,434	72
2,7	1,47	0,449	70
2,85	1,52	0,464	68
3,0	1,57	0,478	66