

Flexible RF cable

K_02253_D-02 **Item: 22511469**

Description

K: RF cables with PTFE/FEP/PFA dielectrics

RG179D/RD179, 75 Ohm, 2 GHz, 200°C, ø3 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, 95%	2 mm
Outer conductor	Copper, Silver plated	Braid, 93 %	2.5 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 8015 - br	3 mm +/- 0.1

Print: HUBER+SUHNER K 02253 D-02 75 Ohm (production order number)

Electrical Data

Impedance	75 Ω +/- 3
Operating Frequency	2 GHz
Capacitance	63 pF/m
Velocity of signal propagation	69 %
Signal delay	4.83 ns/m
Screening effectiveness	≥ 81 dB (up to 2 GHz)
Operating voltage	≤ 0.85 kV _{rms} (at sea level)
Test voltage	1.7 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	2.3 kg/100 m
Min. bending radius	static
	18 mm
	30 mm
	dynamic
	45 mm

Environmental Data

Temperature range	-65 °C ... +200 °C
Installation temperature	-20 °C... +60 °C
Flame propagation test	IEC 60332-3,
Halogen free	No
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant

Additional Information

Remarks

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

Suitable Connectors

Cable group	R8 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 = 0.9109

b = 0.0308

f_{max} = 2

P at 1GHz = 120

Frequency	Nom. attenuation	Nom. attenuation	Max. CW power
(GHz)	(dB / m)	(dB / ft)	(W)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
0,1	0,29	0,089	379
0,2	0,41	0,126	268
0,3	0,51	0,155	219
0,4	0,59	0,179	190
0,5	0,66	0,201	170
0,6	0,72	0,221	155
0,7	0,78	0,239	143
0,8	0,84	0,256	134
0,9	0,89	0,272	126
1,0	0,94	0,287	120
1,1	0,99	0,302	114
1,2	1,03	0,315	110
1,3	1,08	0,329	105
1,4	1,12	0,342	101
1,5	1,16	0,354	98
1,6	1,2	0,366	95
1,7	1,24	0,378	92
1,8	1,28	0,389	89
1,9	1,31	0,401	87
2,0	1,35	0,411	85