

Flexible RF cable

RG_187_A/U Item: 22510045

Description

RG: RG type RF cables

RG187, 75 Ohm, 1 GHz, 205°C, ø2.65 mm, PFA 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	PFA (Perfluoroalkoxy)	RAL 9010 - wh	2.65 mm +/- 0.1

Print: HUBER+SUHNER RG 187 A/U 75 Ohm (production order number)

Electrical Data

Impedance	75 Ω +/- 3
Operating Frequency	1 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	≤ 1 kV _{rms} (at sea level)
Test voltage	2 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		1.6 kg/100 m
Min. bending radius	static	15 mm
		26 mm
	dynamic	40 mm

Environmental Data

Temperature range	-80 °C ... +205 °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	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

$f_{max} = 1$

P at 1GHz = 110

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
0,05	0,17	0,051	492
0,1	0,24	0,073	348
0,15	0,3	0,091	284
0,2	0,35	0,106	246
0,25	0,39	0,119	220
0,3	0,43	0,131	201
0,35	0,47	0,142	186
0,4	0,5	0,153	174
0,45	0,54	0,163	164
0,5	0,57	0,173	156
0,55	0,6	0,182	148
0,6	0,63	0,191	142
0,65	0,65	0,199	136
0,7	0,68	0,208	131
0,75	0,71	0,216	127
0,8	0,73	0,224	123
0,85	0,76	0,231	119
0,9	0,78	0,239	116
0,95	0,81	0,246	113
1,0	0,83	0,253	110

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