

Coaxial Cable RG_187_A/U

Description

PTFE - 75 Ohm - single screen



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

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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
Insulation resistance	$\geq 1 \times 10^8$ MQm
Min. screening effectiveness	≥ 41 dB (up to 1 GHz)
Max. 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 repeated (for ≤ 50 bendings) dynamic
	15 mm 26 mm 40 mm

Environmental Data

Temperature range	-80 °C... +205 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-3,
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as RG_187_A/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} = 1

P at 1GHz = 110

Frequency (GHz)	Nom. attenuation (dB / m)	Nom. attenuation (dB / ft)	Max. CW power (watt)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	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