

RG195, 95 Ohm, 1 GHz, 205°C, ø3.7 mm, PFA jacket

RG_195_A/U

Properties

- Excellent RF performance for precision applications
- Suitable for use in application up to 1 GHz
- Extended temperature range



Construction			
Component	Material	Detail	Diameter
Centre conductor	Steel, Copper + Silver plated	Strand-07	0.3 mm
Dielectric	PTFE (Polytetrafluoroethylene)		2.52 mm
Outer conductor	Copper, Silver plated	Braid, 93%	3.1 mm
Jacket	PFA (Perfluoroalkoxy)	RAL 9010 - wh	3.7 mm +/- 0.15 mm

Electrical data	
Impedance	95 Ω +/- 3Ω
Operating frequency	≤ 1 GHz
Capacitance	50 pF/m
Velocity of signal propagation	69 %
Signal delay	4.79 ns/m
Screening effectiveness	≥ 38dB
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 1 kVrms
Test voltage (50 Hz/1 min)	≤ 2 kVrms

Mechanical data	
Weight	approx. 28 g/m
Static bending radius	15 mm
Repeated bending radius	37 mm

Environmental data	
Operation temperature	-65 °C ... 205 °C
Installation temperature	-20 °C ... 60 °C
Fire characteristics	contains halogene

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Suitable connectors	
Cable group	U99

Ordering information		
Item number	Item description	Available as assembly only
22510048	RG_195_A/U	No

Power Matrix			
Calculation: typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]			
a coefficient typical =	0.6128	b coefficient typical =	0.0264
fmax =	1.0	P at 1 GHz =	35.0
Frequency GHz	Nom. attenuation (dB/m)	Nom. attenuation (dB/ft)	CW power (W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.10	0.196	0.060	111
0.15	0.241	0.073	90
0.20	0.279	0.085	78
0.25	0.313	0.095	70
0.30	0.344	0.105	64
0.35	0.372	0.113	59
0.40	0.398	0.121	55
0.45	0.423	0.129	52
0.50	0.447	0.136	49
0.55	0.469	0.143	47
0.60	0.491	0.150	45
0.65	0.511	0.156	43
0.70	0.531	0.162	42
0.75	0.551	0.168	40
0.80	0.569	0.173	39
0.85	0.587	0.179	38
0.90	0.605	0.184	37
0.95	0.622	0.190	36
1.00	0.639	0.195	35

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DOCUMENT PIM-P39579 / Date of publication: 26.02.2024 / uncontrolled copy