

RG59 (red jacket), 75 Ohm, 1 GHz, 85°C, Ø6.1 mm, PVC jacket

RG_59_B/U-40

Properties

- Mil standard RG cable
- Excellent RF performance for precision applications
- Suitable for use in application up to 1 GHz
- 75 Ohm characteristic Impedance



Construction			
Component	Material	Detail	Diameter
Centre conductor	Steel, Copper plated	Wire, 93%	0.58 mm - 0.2 mm
Dielectric	PE (Polyethylene)		3.64 mm
Outer conductor	Copper	Braid, 93%	4.5 mm
Jacket	PVC (Polyvinyl chloride)	RAL 3000 - rd	6.1 mm +/- 0.2 mm

Electrical data	
Impedance	75 Ω +/-1.5Ω
Operating frequency	≤ 1 GHz
Capacitance	67.6 pF/m
Velocity of signal propagation	65.8 %
Signal delay	5.07 ns/m
Screening effectiveness	40 dB at frequency 0.001 GHz ... 1GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 3 kVrms
Test voltage (50 Hz/1 min)	≤ 6 kVrms

Mechanical data	
Weight	approx. 54 g/m
Static bending radius	≥ 32 mm
Repeated bending radius	65 mm

Environmental data	
Operation temperature	-25 °C ... 85 °C
Installation temperature	-20 °C ... 60 °C
Fire characteristics	contains halogene

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Additional Information	
MIL reference: M17/184-00001 (former reference: M17/29-RG59)	

Suitable connectors	
Cable group	U16

Ordering information		
Item number	Item description	Available as assembly only
22511193	RG_59_B/U-40	No

Power Matrix			
Calculation: typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]			
a coefficient typical =	0.3173	b coefficient typical =	0.0499
fmax =	1.0	P at 1 GHz =	140.0
Frequency	Nom. attenuation	Nom. attenuation	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
0.10	0.105	0.032	443
0.20	0.152	0.046	313
0.30	0.189	0.058	256
0.40	0.221	0.067	221
0.60	0.276	0.084	181
0.80	0.324	0.099	157
1.00	0.367	0.112	140

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