

RG58, 50 Ohm, 1 GHz, 85°C, Ø4.95 mm, PVC jacket

RG_58_C/U-62

Properties

- Mil standard RG cable
- Excellent RF performance for precision applications
- Suitable for use in application up to 1 GHz
- UL qualified



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-19, 96%	0.9 mm
Dielectric	PE (Polyethylene)		2.95 mm
Outer conductor	Copper, Tin plated	Braid, 96%	3.6 mm
Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	4.95 mm

Electrical data	
Impedance	50 Ω +/-2Ω
Operating frequency	≤ 1 GHz
Capacitance	100.7 pF/m
Velocity of signal propagation	66.3 %
Signal delay	5.03 ns/m
Screening effectiveness	35 dB at frequency 1GHz
Insulation resistance	100000000 MΩ*m
Inner conductor resistance	34.5 Ω/km
Operating Voltage (at sea level)	≤ 2.5 kVrms
Voltage Rating UL	30 V
Test voltage (50 Hz/1 min)	≤ 5 kVrms

Mechanical data	
Weight	approx. 37 g/m
Static bending radius	≥ 25 mm
Repeated bending radius	50 mm

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Environmental data	
Operation temperature	-20 °C ... 85 °C
Flame propagation standard	UL (horizontal flame test)
Fire characteristics	contains halogene

Additional Information

MIL reference: MIL reference: M17/183-00001 (former reference: M17/28-RG058)

Suitable connectors

Cable group	U7
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Ordering information

Item number	Item description	Available as assembly only
23024284	RG_58_C/U-62	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 =	0.3455	b coefficient typical =	0.2373
fmax =	1.0	P at 1 GHz =	110.0

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	0.133	0.041	348
0.20	0.202	0.062	246
0.30	0.260	0.079	201
0.40	0.313	0.095	174
0.60	0.410	0.125	142
0.80	0.499	0.152	123
1.00	0.583	0.178	110

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