

RG58C/U MIL-C-17

Commswest Distribution sources their own range of RG58C/U Mil-Spec coaxial cable from high quality manufacturers.

RG58C/U is often used for low-power signal and RF connections with an impedance of 50 Ω . There are several versions with differences in core material (solid or braided wire) and shield (70% to 95% coverage).

Most two-way radio communication systems, such as marine, CB radio, amateur, police, fire, mining, WLAN antennas etc., are designed to work with a 50 Ω cable. It is commonly used on mobile antennas in vehicles to the radio due to its high flexibility and small diameter enabling it to fit through tight areas. This cable can also be used on short runs for other antennas such as base station, but attenuation figures should be checked for desired losses.

RG58 cable can be used from low to moderately high frequencies. Its signal attenuation depends on the frequency as outlined in the table below.



Commswest Part Number (100mtrs): **RG58-100**

Features and benefits:

- Standard RG coaxial cable according MIL-C-17
- Halogen free and flame retardant cable types available on request
- Excellent return loss performance

Mechanical Characteristics		
Conductor	Construction	20AWG (19/0.18mm)
	Material	Stranded Tinned Copper Wires
Insulation	Material	LDPE
	Thickness	1.03mm Nom.
	Outside Diameter	2.95 \pm 0.10mm
	Colour	Natural
Shield	Material	16/7/0.127mm Tinned Copper Wires
	Coverage	95% Min.
Jacket	Material	PVC (RoHS)
	Thickness	0.73mm Nom.
	Outside Diameter	4.95 \pm 0.20mm
	Colour	Black

Electrical Characteristics									
Impedance	50 \pm 2 Ω								
Capacitance	101 pF/M Nom.								
Velocity of Propagation	66% Nom.								
Dielectric Strength	5.0KV (RMS) Min.								
Attenuation (as per 100mtrs) Nom.	MHz	1	10	100	200	400	700	900	1000
	dB	1.4	4.6	16.1	23.9	37.7	55.8	65.6	70.5

Please consult the sales team at Commswest Distribution for Halogen free and Flame retardant / halogen free alternate cables with operating temperatures up to +105 $^{\circ}$ C.

A range of connectors to suit this cable include; N-Type, BNC, TNC, SMA, FME, UHF & Mini UHF. For a full range of connectors, please consult the sales team at Commswest Distribution.

