

RG58

Low Cost

Features:
* Low Cost

Applications:
* Telecom
* Interconnect between equipment

Electrical

Frequency:	DC~1GHz
Impedance:	50Ω
Velocity of Propagation:	66%
Voltage Withstand:	1400V DC
Capacitance:	101.05pF/m

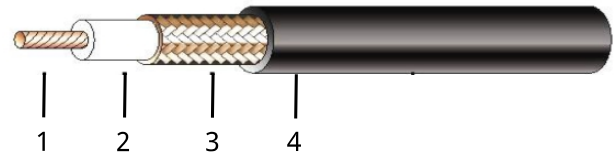
Mechanical

Bend Radius(installation)::	25mm
-----------------------------	------

Environmental

Temperature:	-40~+80°C
--------------	-----------

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	19	Silver-plated copper
2	Dielectric	2.95	PE
3	Outer Conductor	3.5	Bare copper
4	Outer Shield	4.95	Black PVC

Attenuation

Frequency (GHz)	0.1	0.4	1
Attenuation*1 (dB/100m)	15.1	30.8	50.2

[1] VSWR:1.0; Ambient: +20°C (68°F)

Calculate Cable Attenuation: Attenuation (dB/100m) = $1.500603 * \sqrt{F} \text{ (MHz)} + 0.001875 * F \text{ (MHz)}$

Calculate Connector Attenuation: Attenuation (dB) = $0.03 * \sqrt{F} \text{ (GHz)}$

How To Order

RG58-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a RG58 cable assembly, DC-1GHz, SMA male to SMA female, 500 meter, specify RG58-1-SSF-500.

Connector naming rules:

S - SMA (3GHz, VSWR 1.3)

X - MMCX (3GHz, VSWR 1.3)

M - MCX (3GHz, VSWR 1.3)

B - BNC (3GHz, VSWR 1.4)

D - SMB (3GHz, VSWR 1.4)

Female Connector - Add 'F' after connector name

Right Angle - Add 'R' after connector name (VSWR increase 0.1)

Mating Connector

QCB-MCB-RG142-1

BNC male, Crimping
type, brass

QCB-FCB-RG142-1

BNC female, Crimping
type, brass
