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

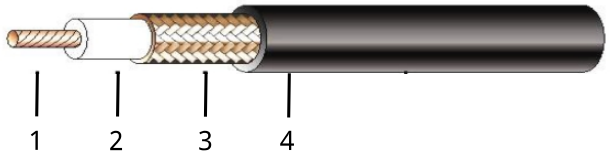
Mechanical

Bend Radius(installation)::	25mm

Environmental

Temperature:	-40~+80℃

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	19	Silver-plated copper
2	Dielectric	2.95	PE
3	Outer Conducter	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℃ (68℉)

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

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

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

NCB-MCB-RG142-1
BNC male, Crimping type, brass

NCB-FCB-RG142-1
BNC female, Crimping type, brass