

# RG142

## Low Cost

Features:  
\* Low Cost

Applications:  
\* Telecom  
\* Interconnect between equipment

### Electrical

Frequency:	DC~12.4GHz
Impedance:	50Ω
Velocity of Propagation:	70%
Operating Voltage:	1400V DC
Capacitance:	95pF/m

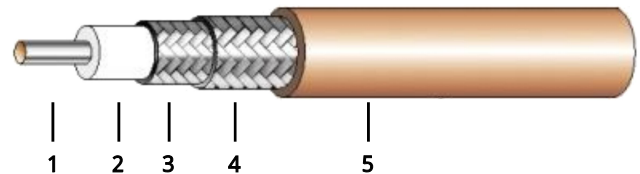
### Mechanical

Bend Radius (installation):	25mm
Bend Radius (repeated):	50mm

### Environmental

Temperature:	-55~+200°C
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### Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	0.93	Silver-plated copper
2	Dielectric	2.98	PTFE
3	Inner Shield	3.45	Silver-plated copper braid
4	Outer Shield	3.95	Silver-plated copper braid
5	Jacket	4.95	FEP

### Attenuation

Frequency (GHz)	0.1	0.4	1	3	5	6	12.4
Attenuation*1 (dB/100m)	12.5	25.6	42	78.1	105	118.5	226.7

[1] VSWR:1.0; Ambient: +25°C (77°F)

### How To Order

#### RG142-X-Y-Z

X: Frequency in GHz  
Y: Connector type  
Z: Length in meters

Examples:

To order a RG142 cable assembly, DC-3GHz, SMA male to SMA female, 0.8 meter, specify RG142-3-SSF-0.8.

Connector naming rules:

S - SMA (12.4GHz, VSWR 1.25)  
N - N (12.4GHz, VSWR 1.25)  
T - TNC (6GHz, VSWR 1.25)  
B - BNC (3GHz, VSWR 1.4)

Female Connector - Add 'F' after connector name

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

**RG142, RG142U Mating Connector**

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**FCS-MB-RG142-1**

SMA male, Brass

**FCN-MB-142-1**

N male, Brass

**FCB-MCB-RG142-1**

BNC Male, Crimping, Brass

**FCB-FCB-RG142-1**BNC Female, Crimping,  
Brass

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