

## QD047

### Hand Formable

**Features:**

- \* Hand formable
- \* Quick and easy assembly

**Applications:**

- \* Instrumentation
- \* Laboratory test
- \* Interconnection

**Electrical**

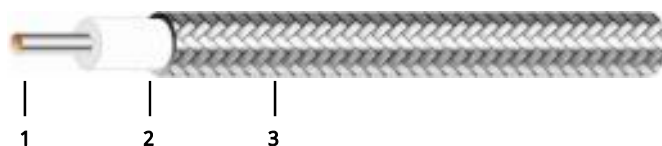
Frequency:	DC~20GHz
Impedance:	50±2Ω
Velocity of Propagation:	70%
Voltage Withstand:	900V DC

**Mechanical**

Bend Radius (installation):	4mm
Bend Radius (repeated):	20mm

**Environmental**

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


No.	Name	Size (mm)	Material
1	Inner Conductor	0.31	SCCS Silver-plated copper clad steel
2	Dielectric	0.94	PTFE
3	Inner Shield	1.19	Tin-plated copper braid

**Attenuation & Power Handling**

Frequency (GHz)	0.5	1.0	5	10	20
Attenuation (dB/100m, typ.)	82	118	269	420	578

Calculate Cable Attenuation: Attenuation (dB/100m) =  $3.512916 * \sqrt{F} \text{ (MHz)} + 0.006852 * F \text{ (MHz)}$

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

**How To Order**
**QD047-X-Y-Z**

X: Frequency in GHz

Y: Connector type

Z: Length in meters

**Examples:**

To order a QD047 cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify QD047-18-SSF-0.5.

**Connector naming rules:**

3 - 3.5mm (6GHz, VSWR 1.2)

P - SMP (6GHz, VSWR 1.2)

A - SSMA (6GHz, VSWR 1.2)

S - SMA (6GHz, VSWR 1.2)

N - N (6GHz, VSWR 1.2)

X - MMCX (6GHz, VSWR 1.3)

M - MCX (6GHz, VSWR 1.3)

B - BNC (4GHz, VSWR 1.4)

D - SMB (4GHz, VSWR 1.25)

Female Connector - Add 'F' after connector name

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

**Mating Connector**

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**QCV-MG-047-1**

1.85mm male, Stainless steel

**QC2-MG-047-1**

2.4mm male, Stainless steel

**QCG-MB-047-1**

SSMP male, Beryllium copper

**QCG-MRB-047-1**

SSMP male, Right angle, Beryllium copper

**QCK-MG-047-1**

2.92mm male, Stainless steel

**QCP-FB-047-1**

SMP female, Beryllium brass

**QCA-FL2B-047-1**

SSMA female, Beryllium copper

**QCS-MG-047-1**

SMA male, Stainless steel

**QCS-MRG-047-1**

SMA male, Right angle, Stainless steel

**QCS-FG-047-1**

SMA female, Stainless steel

