

ND047 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

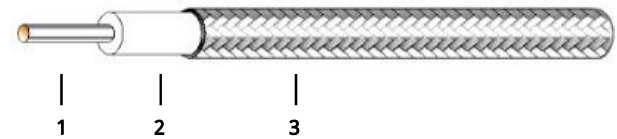
Mechanical

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

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

How To Order

ND047-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a ND047 cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify ND047-18-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

NCV-MG-047-1

1.85mm male, Stainless steel

NC2-MG-047-1

2.4mm male, Stainless steel

NCG-MB-047-1

SSMP male, Beryllium copper

NCG-MRB-047-1

SSMP male, Right angle, Beryllium copper

NCK-MG-047-1

2.92mm male, Stainless steel

NCP-FB-047-1

SMP female, Beryllium brass

NCA-FL2B-047-1

SSMA female, Beryllium copper

NCS-MG-047-1

SMA male, Stainless steel

**NCS-MRG-047-1**

SMA male, Right angle, Stainless steel

NCS-FG-047-1

SMA female, Stainless steel

