

ND086

Hand Formable

Features:

- * Hand formable
- * Quick and easy assembly

Applications:

- * Instrumentation
- * Laboratory test
- * Interconnection

Electrical

Frequency:	DC~40GHz
Cut-off Frequency:	61GHz
Impedance:	50Ω
Velocity of Propagation:	70%
Shielding Effectiveness:	100dB min.
Voltage Withstand:	1000V DC

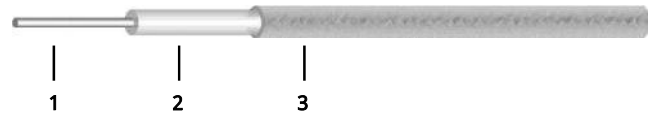
Mechanical

Bend Radius (installation):	10mm
Bend Radius (repeated):	20mm
Weight:	20g/m

Environmental

Temperature:	-55~+150°C
--------------	------------

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	0.53	Silver-plated copper
2	Dielectric	1.65	PTFE
3	Inner Shield	2.17	Tin-plated copper braid

Attenuation & Power Handling

Frequency (GHz)	0.1	0.3	0.5	1	2	4	6	12	18	26.5	40
Attenuation*1 (dB/100m)	21.7	38.2	49.8	71.9	104.6	153.8	193.8	291.6	373.6	476.6	622.6
Average Power*2 (W)	237	135	103	72	49	33	27	18	14	11	8

[1] VSWR:1.0; Ambient: +25°C (77°F)

[2] VSWR:1.0; Ambient: +40°C (104°F); Sea level

Calculate Cable Attenuation: Attenuation (dB/100m) = 2.115000 * √F (MHz) + 0.004990 * F (MHz)

Calculate Connector Attenuation: Attenuation (dB) = 0.03 * √F (GHz)

How To Order

ND086-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a ND086 cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify ND086-18-SSF-0.5.

Connector naming rules:

2 - 2.4mm (40GHz, VSWR 1.35)

K - 2.92mm (40GHz, VSWR 1.35)

P - SMP (26.5GHz, VSWR 1.3)

A - SSMA (26.5GHz, VSWR 1.3)

S - SMA (26.5GHz, VSWR 1.3)

G - Mini-SMP (mateable with GPPO & SSMP, 18GHz, VSWR 1.3)

N - N (12GHz, 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)