

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

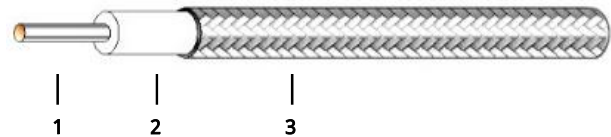
Mechanical

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

Environmental

Temperature:	-55~+150°C
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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, typ.)	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) = $2.115000 * \sqrt{F \text{ (MHz)}} + 0.004990 * F \text{ (MHz)}$

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

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 1.8, typ.)
- K - 2.92mm (40GHz, VSWR 1.8, typ.)
- G - Mini-SMP (mateable with GPPO & SSMP, 40GHz, VSWR 1.8, typ.)
- P - SMP (26.5GHz, VSWR 1.7, typ.)
- A - SSMA (26.5GHz, VSWR 1.7, typ.)
- S - SMA (26.5GHz, VSWR 1.7, typ. / 18GHz, VSWR 1.35 typ.)
- N - N (18GHz, VSWR 1.35, typ.)
- X - MMCX (6GHz, VSWR 1.3, typ.)
- M - MCX (6GHz, VSWR 1.3, typ.)
- B - BNC (4GHz, VSWR 1.4, typ.)
- D - SMB (4GHz, VSWR 1.25, typ.)

Female Connector - Add 'F' after connector name

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

Mating Connector

NCG-FB-086-1

SSMP female, Beryllium copper



NCG-FRB-086-2

SSMP female, Right angle, Beryllium copper



NCK-MG-086-3

2.92mm male, Stainless steel



NCK-FB-086-1

2.92mm female, Brass



NCK-FL2G-A220-1

2.92mm female, 2-hole flange mount, Stainless steel

NCK-FL4G-A220-1

2.92mm female, 4-hole flange mount, Stainless steel

NCP-FB-086-3

SMP female, Beryllium copper

NCP-FRB-086-1

SMP female right angle, Beryllium copper



NCP-FRB-086-2

SMP female right angle, Beryllium copper



NCA-MG-086-2

SSMA male, Stainless steel

NCA-FHB-086-1

SSMA female bulk head, Brass

NCS-FL2B-086-1

SMA female, 2-hole flange mount, Brass

NCS-FL4B-086-1

SMA female, 4-hole flange mount, Gold plated beryllium copper

NCS-FHB-086-2

SMA female bulk head, Gold plated brass



NCN-MB-086-1

N male, Nickel plated brass



NCN-FB-086-1

N female, Nickel plated brass



NCX-MB-086-1

MMCX male, Gold plated brass



NCX-MRB-086-1

MMCX male right angle, Gold plated brass



NCX-FB-086-1

MMCX female, Gold plated brass

NCM-MB-086-1

MCX male, Gold plated brass



NCM-MRB-086-2

MCX male right angle, Gold plated brass/beryllium copper



NCM-FB-086-1

MCX female, Gold plated brass

Semiflex RF Cables & Assemblies

NCS-MB-086-4

SMA male, Gold plated brass



NCS-MG-086-3

SMA male, Stainless steel



NCS-MRG-086-1

SMA male right angle, Stainless steel



NCS-MRB-086-1

SMA male right angle, Gold plated brass



NCS-FB-086-2

SMA female, Gold plated brass



NCB-MB-086-1

BNC male, Ternary alloy plated brass



NCD-MB-086-1

SMB male, Gold plated brass

NCD-MRB-086-1

SMB male right angle, Gold plated brass

NCD-FB-086-1

SMB female, Gold plated brass

NCD-FRB-086-1

SMB female right angle, Gold plated brass