

ND141 Hand Formable

Features:

- * Hand formable
- * Quick and easy assembly

Applications:

- * Instrumentation
- * Laboratory test
- * Interconnection

Electrical

Frequency:	DC-6GHz
Cut-off Frequency:	34.4GHz
Impedance:	50Ω
Velocity of Propagation:	70%
Shielding Effectiveness:	100dB min.
Voltage Withstand:	1500V DC

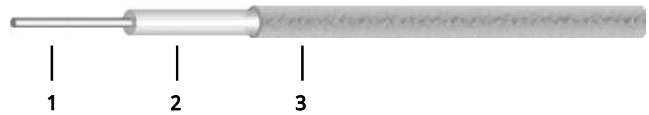
Mechanical

Bend Radius (installation):	17.75mm
Bend Radius (repeated):	35.5mm
Weight:	50g/m

Environmental

Temperature:	-55~+150°C
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Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	0.94	Silver-plated copper
2	Dielectric	2.98	PTFE
3	Inner Shield	3.55	Tin-plated copper braid

Attenuation & Power Handling

Frequency (GHz)	0.03	0.05	0.1	0.3	0.5	0.9	1	2	3	4	6
Attenuation*1 (dB/100m)	6.3	8.1	11.6	20.6	27.0	37.2	39.4	58.1	73.3	86.8	110.7
Average Power*2 (W)	1026	790	553	311	237	172	163	110	87	74	58

[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) = 1.119870 * √F (MHz) + 0.003986 * F (MHz)

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

How To Order

ND141-X-Y-Z

X: Frequency in GHz Y:

Connector type

Z: Length in meters

Examples:

To order a ND141 cable assembly, DC-4GHz, SMA male to SMA female, 0.5 meter, specify ND141-4-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)