

# ND250

## Hand Formable

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| <b>Features:</b><br>* Hand formable<br>* Quick and easy assembly | <b>Applications:</b><br>* Instrumentation<br>* Laboratory test<br>* Interconnection |
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### Electrical

Frequency:	DC-6GHz
Cut-off Frequency:	19GHz
Impedance:	50Ω
Velocity of Propagation:	70%
Shielding Effectiveness:	100dB min.
Voltage Withstand:	2500V DC

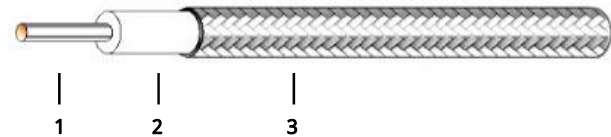
### Mechanical

Bend Radius (installation):	20mm
Bend Radius (repeated):	40mm
Weight:	140g/m

### Environmental

Temperature:	-55~+225°C
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### Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	1.65	Silver-plated copper
2	Dielectric	5.25	PTFE
3	Inner Shield	6.30	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)	3.63	4.72	6.77	12.14	16.03	22.23	23.60	35.23	44.90	53.55	69.09
Average Power*2 (W)	2382	1831	1277	713	540	389	367	246	193	162	125

[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) = 0.645600 \* √F (MHz) + 0.003180 \* F (MHz)

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

### How To Order

#### ND250-X-Y-Z

- X: Frequency in GHz  
 Y: Connector type  
 Z: Length in meters

#### Examples:

To order a ND250 cable assembly, DC-6GHz, SMA male to SMA female, 0.5 meter, specify ND250-6-SSF-0.5.

#### Connector naming rules:

- 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)