

NZ1200 Ultra-Flexible

Features:

- * Ultra-Flexible
- * Corrosion Resistance

Applications:

- * Phased-array Radar
- * Laboratory Test
- * Small & Complicated Interconnection Occasion

Electrical

Frequency:	DC~11GHz
Cut-off Frequency:	20GHz
Impedance:	50Ω
Velocity of Propagation:	81%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	4000V DC
Phase Stable:	1000PPM
Mechanical Phase Stable:	±10°

Mechanical

Bend Radius (installation):	61.0mm
Bend Radius (repeated):	122.0mm
Weight:	260g/m

Environmental

Temperature:	-55~+85°C
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Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	3.85	Stranded Silver-plated copper
2	Dielectric	10.25	Low density PTFE
3	Inner Shield	10.45	Silver-plated copper tape
4	Outer Shield	11.02	Silver-plated copper braid
5	Jacket	12.20	PUR

Attenuation & Power Handling

Frequency (MHz)	400	1000	2000	3000	6000	8000	11000
Attenuation*1 (dB/100m)	6,1	10,0	14,8	18,8	28,6	34,2	42,0
Average Power*2 (W)	4500,0	2726,0	1841,0	1453,0	955,0	798,0	650,0

[1] VSWR:1.0; Ambient: +25°C (77°F)

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

Calculate Cable Attenuation: $\text{Attenuation (dB/100m)} = 0.2808324 * \sqrt{F \text{ (MHz)}} + 0.00114 * F \text{ (MHz)}$

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

How To Order

NZ1200-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a NZ1200 cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify NZ1200-18-SSF-0.5.

Connector naming rules:

S - SMA (18GHz, VSWR 1.25)

N - N (18GHz, VSWR 1.25)

T - TNC (18GHz, VSWR 1.25)

Female Connector - Add 'F' after connector name

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