

NZ800 Ultra-Flexible

Features:

- * Ultra-Flexible
- * Corrosion Resistance

Applications:

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

Electrical

Frequency:	DC~18GHz
Cut-off Frequency:	20GHz
Impedance:	50Ω
Velocity of Propagation:	76%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	1700V DC
Phase Stable:	550PPM
Mechanical Phase Stable:	±3°
Amplitude Stability:	±0.1dB

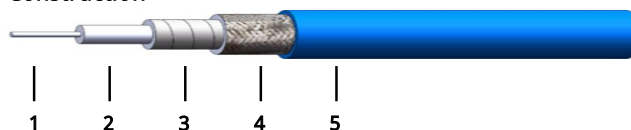
Mechanical

Bend Radius (installation):	32.0mm
Bend Radius (repeated):	80.0mm
Weight:	130g/m

Environmental

Temperature:	-55~+85°C
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Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	1.88	Stranded Silver-plated copper
2	Dielectric	5.50	Low density PTFE
3	Inner Shield	5.74	Silver-plated copper tape
4	Outer Shield	6.31	Silver-plated copper braid
5	Jacket	8.00	PUR

Attenuation & Power Handling

Frequency (GHz)	0.3	0.5	1	3	6	8	10	12.4	18
Attenuation*1 (dB/100m)	9.5	12.5	18.2	33.8	50.9	60.7	69.8	80.0	101.9
Average Power*2 (W)	626	477	327	176	117	98	85	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) = $0.517315 * \sqrt{F \text{ (MHz)}} + 0.001806 * F \text{ (MHz)}$

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

How To Order

NZ800-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a NZ800 cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify NZ800-18-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)