

NZ360

Ultra-Flexible

Features:

- * Ultra-Flexible
- * Corrosion Resistance

Applications:

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

Electrical

Frequency:	DC~40GHz
Cut-off Frequency:	51GHz
Impedance:	50Ω
Velocity of Propagation:	76%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	500V DC
Phase Stable:	550PPM
Mechanical Phase Stable:	±3°
Amplitude Stability:	±0.1dB

Mechanical

Bend Radius (installation):	14.0mm
Bend Radius (repeated):	36.0mm
Weight:	30g/m

Environmental

Temperature:	-55~85°C
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Attenuation & Power Handling

Frequency (GHz)	0.3	0.5	1	3	6	10	12.4	18	26.5	40
Attenuation*1 (dB/100m)	28	36.3	51.9	92.1	133.4	176.4	198.7	244.9	305.5	388.8
Average Power*2 (W)	220	169	119	67	46	35	31	25	20	16

[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) = $1.582929 * \sqrt{F} \text{ (MHz)} + 0.001806 * F \text{ (MHz)}$

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

How To Order

NZ360-X-Y-Z

X: Frequency in GHz

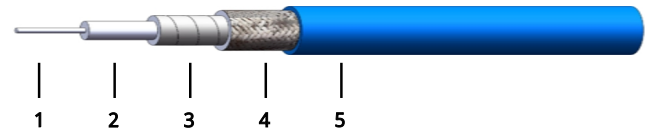
Y: Connector type

Z: Length in meters

Examples:

To order a NZ360 cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify NZ360-18-SSF-0.5.

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	0.72	Stranded Silver-plated copper
2	Dielectric	2.05	Low density PTFE
3	Inner Shield	2.22	Silver-plated copper tape
4	Outer Shield	2.66	Silver-plated copper braid
5	Jacket	3.60	PUR

Connector naming rules:

- 2- 2.4mm (40GHz, VSWR 1.35)
- K - 2.92mm (40GHz, VSWR 1.35)
- A - SSMA (40GHz, VSWR 1.35)
- 3 - 3.5mm (33GHz, VSWR 1.35)
- S - SMA (26.5GHz, VSWR 1.3)
- N - N (18GHz, VSWR 1.25)

Female Connector - Add 'F' after connector name

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

Mating Connector

NCK-MG-Z360-1

2.92mm male, Stainless steel



NCK-MRG-Z360-1

2.92mm male, Right angle, Stainless steel

NCK-FG-Z360-1

2.92mm female, Stainless steel

NCK-FRG-Z360-1

2.92mm female, Right angle, Stainless steel

NC3-MG-Z360-1

3.5mm male, Stainless steel

NC3-FG-Z360-1

3.5mm female, Stainless steel

NCS-FG-Z360-1

SMA male, Stainless steel

NCS-FG-Z360-1

SMA female, Stainless steel

NCN-MG-Z360-1

N male, Stainless steel

