

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

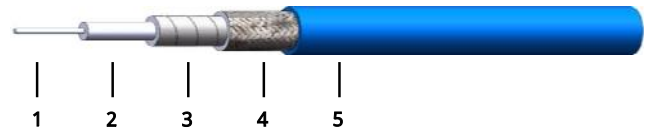
Mechanical

Bend Radius (installation):	18.0mm
Bend Radius (repeated):	36.0mm
Weight:	30g/m

Environmental

Temperature:	-55~85°C
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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

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 * √F (MHz) + 0.001806 * F (MHz)

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

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)

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

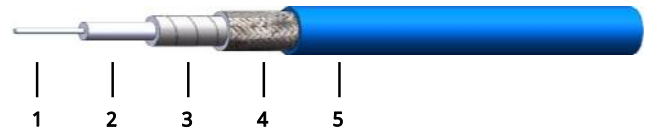
Mechanical

Bend Radius (installation):	40.0mm
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

	0.3	0.5	1	3	6	8	10	12.4	18
Frequency (GHz)									
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)

NZ600

Ultra-Flexible

Features:

- * Ultra-Flexible
- * Corrosion Resistance

Applications:

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

Electrical

Frequency:	DC~26.5GHz
Cut-off Frequency:	29.5GHz
Impedance:	50Ω
Velocity of Propagation:	76%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	1700V DC

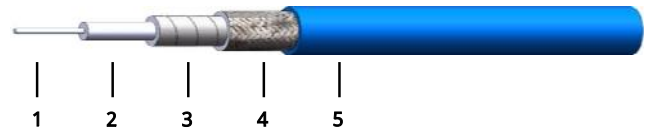
Mechanical

Bend Radius (installation):	30.0mm
Bend Radius (repeated):	60.0mm
Weight:	82g/m

Environmental

Temperature:	-55~+85°C
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Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	1.44	Stranded Silver-plated copper
2	Dielectric	4.25	Low density PTFE
3	Inner Shield	4.45	Silver-plated copper tape
4	Outer Shield	4.90	Silver-plated copper braid
5	Jacket	5.90	PUR

Attenuation & Power Handling

Frequency (GHz)	1	2	4	6	8	10	12.4	18	26.5
Attenuation*1 (dB/100m)	28.7	41.2	59.3	73.6	86.0	97.1	109.2	134.3	167.2
Average Power*2 (W)	175	122	85	68	59	52	46	37	30

[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) = 0.880600 * √F (MHz) + 0.000900 * F (MHz)

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

How To Order

NZ600-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a NZ600 cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify NZ600-18-SSF-0.5.

Connector naming rules:

3 - 3.5mm (26.5GHz, VSWR 1.3)

S - SMA (26.5GHz, VSWR 1.3)

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)

NZ500

Ultra-Flexible

Features:

- * Ultra-Flexible
- * Corrosion Resistance

Applications:

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

Electrical

Frequency:	DC~26.5GHz
Cut-off Frequency:	35GHz
Impedance:	50Ω
Velocity of Propagation:	76%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	1000V DC

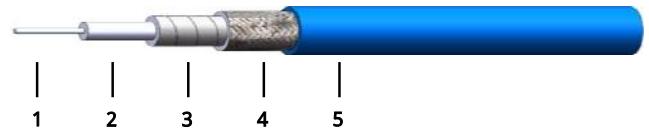
Mechanical

Bend Radius (installation):	25.0mm
Bend Radius (repeated):	50.0mm
Weight:	50g/m

Environmental

Temperature:	-55~+85°C
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Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	1.02	Stranded Silver-plated copper
2	Dielectric	3.00	Low density PTFE
3	Inner Shield	3.20	Silver-plated copper tape
4	Outer Shield	3.78	Silver-plated copper braid
5	Jacket	5.00	PUR

Attenuation & Power Handling

	0.3	0.5	1	3	6	10	12.4	18	26.5
Frequency (GHz)									
Attenuation*1 (dB/100m)	20.4	26.7	38.5	69.8	103.2	139.0	157.9	198.0	252.1
Average Power*2 (W)	280	215	149	82	55	41	36	29	23

[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) = 1.136600 * √F (MHz) + 0.002530 * F (MHz)

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

How To Order

NZ500-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a NZ500 cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify NZ500-18-SSF-0.5.

Connector naming rules:

3 - 3.5mm (26.5GHz, VSWR 1.3)

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)