

FZ360 Ultra-Flexible

Features:

- * Ultra-Flexible
- * Corrosion Resistance

Applications:

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

Electrical

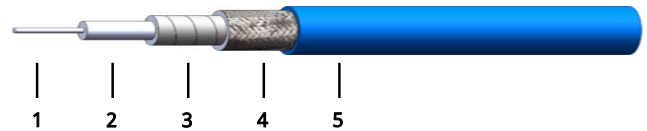
| | |
|--------------------------|-----------|
| Frequency: | DC~40GHz |
| Cut-off Frequency: | 51GHz |
| Impedance: | 50Ω |
| Velocity of Propagation: | 76% |
| Shielding Effectiveness: | 90dB min. |
| Voltage Withstand: | 500V DC |

Mechanical

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

Environmental

| | |
|--------------|----------|
| Temperature: | -55~85°C |
|--------------|----------|

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

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

How To Order
FZ360-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a FZ360 cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify FZ360-18-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)

Mating Connector

FCK-MG-Z360-1

2.92mm male, Stainless steel

**FCK-MRG-Z360-1**

2.92mm male, Right angle, Stainless steel

FCK-FG-Z360-1

2.92mm female, Stainless steel

FCK-FRG-Z360-1

2.92mm female, Right angle, Stainless steel

FC3-MG-Z360-1

3.5mm male, Stainless steel

FC3-FG-Z360-1

3.5mm female, Stainless steel

FCS-FG-Z360-1

SMA male, Stainless steel

FCS-FG-Z360-1

SMA female, Stainless steel

FCN-MG-Z360-1

N male, Stainless steel
