

# FG360

## Low Loss

**Features:**

\* Low Insertion Loss

**Applications:**

 \* Telecom  
 \* Interconnection between equipment

**Electrical**

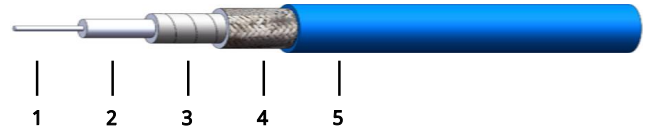
Frequency:	DC~18GHz
Cut-off Frequency:	40GHz
Impedance:	50Ω
Velocity of Propagation:	76%
Shielding Effectiveness:	70dB min.
Voltage Withstand:	1000V DC

**Mechanical**

Bend Radius (installation):	18.0mm
Bend Radius (repeated):	36.0mm
Weight:	28g/m

**Environmental**

Temperature:	-55~+125°C
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**Construction**


No.	Name	Size (mm)	Material
1	Inner Conductor	0.91	Silver-plated copper
2	Dielectric	2.65	Low density PTFE
3	Inner Shield	2.78	Self-adhesive aluminum foil
4	Outer Shield	3.25	Silver-plated copper braid
5	Jacket	3.60	FEP

**Attenuation & Power Handling**

Frequency (GHz)	0.3	0.5	1	3	6	10	12.4	18
Attenuation*1 (dB/100m)	21.0	27.2	38.7	67.7	96.9	126.4	141.5	172.3
Average Power*2 (W)	850	657	462	264	185	141	126	104

[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) =  $1.204032 * \sqrt{F} \text{ (MHz)} + 0.000600 * F \text{ (MHz)}$ 

 Calculate Connector Attenuation: Attenuation (dB) =  $0.03 * \sqrt{F} \text{ (GHz)}$ 
**How To Order**
**FG360-X-Y-Z**

X: Frequency in GHz

Y: Connector type

Z: Length in meters

**Examples:**

To order a FG360 cable assembly, DC-18GHz, N male to N female, 0.5 meter, specify FG360-18-NNF-0.5.

**Connector naming rules:**

2- 2.4mm (18GHz, VSWR 1.2)

K - 2.92mm (18GHz, VSWR 1.2)

A - SSMA (18GHz, VSWR 1.2)

3 - 3.5mm (18GHz, VSWR 1.2)

S - SMA (18GHz, VSWR 1.25)

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**

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**FCS-MG-G360-1**

SMA male, Stainless steel

**FCS-FG-G360-1**

SMA female, Stainless steel

**FCN-MG-G360-1**

N male, Stainless steel

