

QG360

Low Loss

Features:

* Low Insertion Loss

Applications:

 * Telecom
 * Interconnection between equipment

Electrical

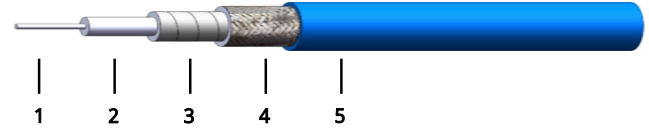
Frequency:	DC~18GHz
Cut-off Frequency:	40GHz
Impedance:	50Ω
Velocity of Propagation:	76%
Shielding Effectiveness:	70dB min.
Voltage Withstand:	1000V DC

Mechanical

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

Environmental

Temperature: -55~+125°C

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
QG360-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a QG360 cable assembly, DC-18GHz, N male to N female, 0.5 meter, specify QG360-18-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

QCS-MG-G360-1
SMA male, Stainless steel

QCS-FG-G360-1
SMA female, Stainless steel

QCN-MG-G360-1
N male, Stainless steel

