

# QZ600

## 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) =  $0.880600 * \sqrt{F} \text{ (MHz)} + 0.000900 * F \text{ (MHz)}$

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

**How To Order**
**QZ600-X-Y-Z**

X: Frequency in GHz

Y: Connector type

Z: Length in meters

**Examples:**

To order a QZ600 cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify QZ600-18-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)

**Mating Connector**

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**QCS-MG-Z600-1**

SMA male, Stainless steel

**QCS-FHG-Z600-1**SMA female, Bulk head,  
Stainless steel**QCN-MRG-Z600-1**N male, Right angle,  
Stainless steel**QCT-MG-Z600-1**

TNC male, Stainless steel

**QCS-MRG-Z600-1**SMA male, Right angle,  
Stainless steel**QCN-MG-Z600-1**

N male, Stainless steel

**QCN-FG-Z600-1**

N female, Stainless steel

**QCT-MRG-Z600-1**TNCmale, Right angle,  
Stainless steel