

## QB1200

### Stable Loss, VSWR, Phase vs Flexing

#### Features:

- \* Low Insertion Loss
- \* High Power
- \* Low PIM

#### Applications:

- \* Phased-array Radar
- \* Satellite Communication
- \* Avionics
- \* Telecom

#### Electrical

Frequency:	DC-8GHz
Cut-off Frequency:	11GHz
Impedance:	50Ω
Velocity of Propagation:	76%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	3000V DC
PIM:	-155dBc

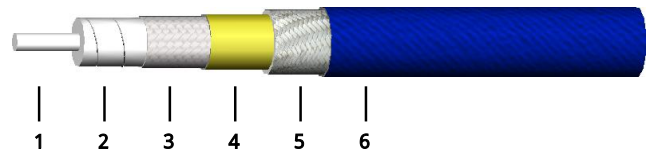
#### Mechanical

Bend Radius (installation):	60.0mm
Bend Radius (repeated):	120.0mm
Weight:	310g/m

#### Environmental

Temperature: -55~+200°C

#### Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	3.50	Stranded silver-plated copper
2	Dielectric	9.90	Low density PTFE
3	Inner Shield	10.17	Silver-plated copper tape
4	Interlayer	10.30	Aluminum tape
5	Outer Shield	11.02	Silver-plated copper braid
6	Jacket	12.00	FEP

#### Attenuation & Power Handling

Frequency (GHz)	0.1	0.3	0.5	1	3	4	6	8
Attenuation*1 (dB/100m)	4.0	7.0	9.1	13.0	23.3	27.2	33.9	39.8
Average Power*2 (W)	8450	4830	3713	2590	1447	1238	991	844

[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) =  $0.391680 * \sqrt{F} \text{ (MHz)} + 0.000600 * F \text{ (MHz)}$

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

#### How To Order

##### QB1200-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

#### Examples:

To order a QB1200 cable assembly, DC-8GHz, N male to N female, 0.5 meter, specify QB1200-8-NNF-0.5.

#### Connector naming rules:

N - N (8GHz, VSWR 1.2)

T - TNC (8GHz, VSWR 1.2)

Female Connector - Add 'F' after connector name

Right Angle - Add 'R' after connector name (VSWR increase 0.1)

QB1200 Mating Connector

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**QCN-MG-B1200-1**  
N male, Stainless steel



**QC7-MB-B1200-1**  
7-16 male, Ternary alloy  
plated brass

